

Results, 1980 ARRL November Sweepstakes

Special section on how the top scorers do it!

By Tom Frenaye,* K1KI and Bill Jennings,** K1WJ

Participants in the 1980 ARRL November Sweepstakes probably noted, after much hard work, that making a clean sweep on both modes was even harder than finishing in the Top Ten. It wasn't as if all sections weren't on the air, since a few did manage to find all 74 sections, but there were some very tough ones, most notably in western and northern Canada. Of the 2344 entries received (1242 — phone, 1102 — cw), Alberta was missing from our own records on both modes.

On the whole, final scores were down from last year's contest, perhaps indicating that DX-ing during these days of high sunspot numbers is taking away a few competitors. For those left trying to run up the big scores, the competition is even tougher. A few QSOs really made a big difference in the final outcome in many cases, and miscopied call signs were a mistake no one wanted to have. More than ever, the operator with the ability to search out the new station to work by carefully listening and changing bands appropriately or by "friendly CQing" is the one with the advantage. Your operating had to be very flexible in order to be competitive this time.

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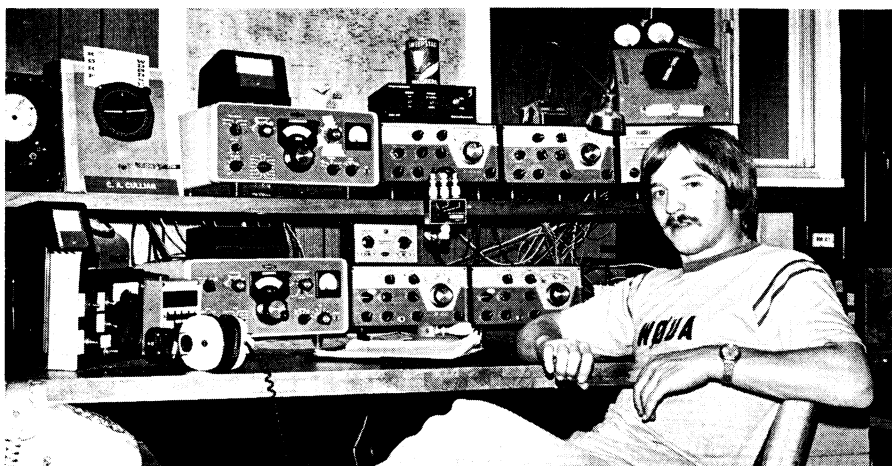
The best person to tell you how to improve your score next year is probably the one who finished ahead of you. After you've scanned the listing for your own score or that of a friend, take some time to digest the information in the section titled "Keys to Success," compiled from surveys sent to the top finishers.



Perennial "top-tenner" in the SS, K3UA. Phil fought his way to number six on the 1980 cw list.



N6RO was the number eight single op on phone and number nine on cw to be the second of only two ops (W0UA was the other) to make both "Top Ten" lists. FB, Ken.



The old one-two punch from Colorado — W0UA piloted K0RF to a first-place finish on cw and a second-place showing on phone in 1980. Well done, George.



K7JA, operating N7DD, became the top op on phone, coming up just short of 2100 QSOs. Chip found that old habits are hard to break. It took him three hours of soaking to be able to relax his muscles enough to let go of the mike after the SS.

Keys to Success

Following the 1980 Sweepstakes, a survey was sent to the top 15 finishers on each mode. The survey was designed to provide some insight about the equipment and operating strategy used by the top operators. Responses were received from all but one of those polled.

Equipment Used

RX/TX: R4C with T4XC (or TR4C/T4XB) — 8, TS-820/830 (some with R-820) — 7, 32S-3 with 75S-3 — 2, FT-901DM — 3, CX-11A — 1, KWM-380 — 1, 75S-3/SB102 — 1.
Amplifier: SB-220 — 8, Alpha 77DX — 4, Homebrew 4-1000 — 3, Henry 2K — 2, Homebrew 8877 — 1, Homebrew 4-4CX250B — 1, Collins 30S-1 — 1, Drake L-4B — 1, BTI — 1.
Microphone: Mentioned more than once — Shure 444, Astatic D-104, Superex boom. Also mentioned — Collins, Astatic 10-D, Turner CB, Radio Shack, Heath Electrovoice, Electrovoice 664, Yaesu YE-7A.
Headphones: Mentioned more than once — Telex, Radio Shack, Superex boom, "cheap." Also mentioned — Kenwood HS5, Vanco, Sony, "military," Plantronics, Yaesu YH-77.
Keyer: Most often mentioned — Homebrew Accu-Keyer/Accu-Memory. Also mentioned — CW Sending Machine, MFJ Grandmaster, Autek, Curtis, Morsematic, homebrew.

Antennas

80M: most common — Dipole @ 75 ft, also common — quad/delta loop(s), smallest — inverted V @ 35 ft.
40M: most common — 4-el beam @ 100 ft, also common — 2-el beam @ 90 ft, smallest — inverted V @ 35 ft.
20M: most common — 5-el @ 100 ft, also common — 4-el @ 75 ft, smallest — tribander @ 40 ft.
15M: most common — 4-el @ 90 ft, also common — 3/5-el @ 75 ft, smallest — tribander @ 40 ft.
10M: most common — 6-el @ 80 ft, also common — 7-el @ 90 ft, smallest — no antenna.

Operating Strategy

Used a tape loop (for CQing)? Phone: Yes — 5, no — 10.
Used a memory keyer? cw: Yes — all.
Used memory keyer for CQing? Average — 65% of the time.
Used memory keyer for the exchange? Average — 75% of the time.
Kept a dupe sheet during the contest? Phone: yes — 8, no — 6. **Cw:** yes — all.
What was your strategy for the first hour or two? Phone: **Don't waste a single syllable —
 *Important
 **Very important

operate like a machine — use the highest band open (except use 40 meters in the East) — CQ exclusively (until the rate drops below 100/hour) — change frequency within the band frequently.

What was your strategy for the last hour or two? Phone: Alternate answering CQs with calling CQs — **call slow CQs, attract non-contesters with friendly voice — change frequency/band often.

What was your strategy for the first hour or two? Cw: **Varied considerable from exclusive CQing to exclusive answering of CQ — quick band change/QSYing essential.

What was your strategy for the last hour or two? Cw: **Varied considerably, generally opposite of first-hour strategy — slow CQ — look for needed multipliers.

How long did you sleep? Phone: varied from 1 to 4 hours — average 2.8. Cw: varied from 1 to 4 hours — average 2.2.

What was the best time-off strategy?

Phone: Early morning (3 or 4 A.M.) — stop when rate is one-half that of first three hours — plan meals to off time, not the opposite — it is always slower on Sunday — take as many in 30-minute segments as possible.

What is the best time off strategy? Cw: Go till 0800Z straight through — save as much off time as possible for Sunday — take in 30-minute segments — last hour is either very good or very bad (know your local conditions).

What do you do best in your operating (that others may not)? Phone: **Confidence! — clean crisp audio — don't go too fast — get call/exchange the first time — have backup rig ready — call CQ only if you can keep the rate high — *keep up-to-date dupe sheet — *use every second (efficiency) — persistence — flexibility on antenna switching — better antennas — *know when and how to call (timing). Cw: **Confidence! — endurance/efficiency — use memory keyer to allow catching up on dupe sheet — be aggressive — don't worry about multipliers — only a few extra QSOs makes a difference — listen on second band with stereo headphones (have next QSO ready) — send/listen faster — know your limits — don't spend all day trying to hold the frequency — eliminate every extra "dit" in the exchange.

What was your biggest mistake? *Time-out strategy — *didn't QSY enough — call sign was too long — not familiar enough with station (guest operator) — not consistent — antennas too high — hadn't been on the air recently (check out conditions for a couple days ahead of time) — *station not prepared adequately — mismanagement of off times — not enough confidence/concentration — too much listening for missing multiplier(s).
What is your biggest complaint about the

operating techniques of those you worked?

Phone: **Exchange was repeated (only repeat if asked) — **duplicates! especially from those with fewer than 200 QSOs — too much mike gain — exchange not in proper sequence — stations calling CQ too much (getting too few answers) — not signing complete call signs — CQing w/o asking if frequency in use. Cw: **exchange repeated (only repeat if asked) — stations answering too far off frequency — duplicates — slow sending — not copying the first time — the weaker they are, the longer they send — frequency stealing not as much of a problem as it was a few years ago.
How would your overall strategy have differed if you had a station that ran 200 watts, inverted Vs on 40/80 at 45 ft and a tribander at 45 ft?
 **More QSYing and answering CQs, less CQing — *concentrate more on 10-15 meters — CQ at the end of contest, or high in the band — more night time-off periods — keep accurate dupe sheet — practice tail-end timing — move to rarer section — pray for an amplifier.

Other Data

How long have you been licensed? Range was from 7 to 28 years, average was 15 years.
Occupation? Student (several) — civil engineer (two) — airline pilot — heating/air conditioning contractor — chief engineer-commercial radio — electrical design engineer — electrician — physician — research engineer — purchasing/prod. control — land title examiner — R&D manager — electronics engineer — manager telephone/microwave dispatch center — software engineer — engineer — marketing specialist — electronics, avionics engineer — electronics sales manager — purchasing agent — software/timeshare vendor.

A Final Comment

"I think the comments you publish may have a significant influence on the operating techniques of the top 500 scorers. When their techniques change, mine will also, in order to maintain a top position. Conclusion: Simply by publishing some of the winning techniques you will invalidate them. For example, when it is discovered that *all* of the high scorers (phone) do nothing but CQ for most of the contest, many medium scorers will attempt to do that, making CQing less productive than previously. CQing will diminish as a winning technique. If everyone used my VE8/VY1 technique, it wouldn't work for me. I'm sorry, I can't afford to talk about it... I'm sure other high scorers have secrets they don't feel they can share either. It is interesting to see how many high scorers own and operate their own station. If you can afford a good station, you are too old to operate it..."

Table 1
Division Leaders — Phone

Division	High Power	Low Power	Multioperator
Atlantic	W3FA (WA3ZAS)	K3TM	WB3EPC
Central	K9HMB (K9GL)	N9AGC	W9YB
Dakota	K0JL	K0FRP	AK0T
Delta	W5WU*	N4TG	WA4UCE
Great Lakes	K8MJZ	W8JWN	K8ND
Hudson	W2PV (K1AR)	WA2STM	K2XR
Midwest	KB0X	W0RR (WB0LFY)*	K0DG
New England	K1PR	K1LL*	K1IK
Northwestern	K7RI (W7WA)	K7SS*	W7ZR
Pacific	WA7NIN	WA6DIL	AA6G
Roanoke	N8II	AA4FF	K4KDJ
Rocky Mountain	K0RF (W0UA)	AA5B*	WB0CMM
Southeastern	K7TBT/4 (WB4QBB)	KB4I (K2PO)*	N4WW
Southwestern	N7DD (K7JA)*	AK6U	K6HRT
West Gulf	K5RC (K5ZD)	KM5H	K5RX
Canadian	VE7IN	VE3GD	VE5QM

Operator (if any) in parentheses.
 *Indicates new division record

Division Leaders — CW

Division	High Power	Low Power	Multioperator
Atlantic	K3UA	W2TZ*	N2ME
Central	W9RW	WD9DCL	W9YB
Dakota	AA4MD/0	N0NO	N0BG
Delta	K5GO	K4XU	K5SA
Great Lakes	K8NZ	W8KRR	WB8JBM
Hudson	W2YV (N2NT)	AC2U	KA2ACM
Midwest	N0SS	K0LUZ	K0WA
New England	K1AR	W1ZT*	K1VTM
Northwestern	W7NI	K7SS*	AG7M
Pacific	N6RO	AD7K*	W6BIP
Roanoke	K4PQL	KD8G	N4EA
Rocky Mountain	K0RF (W0UA)	W0CP	KC0D
Southeastern	N4KG (WN4KKN)	KB4I (K2PO)	W4DOC
Southwestern	N6TR	K6VI	WB6SHL
West Gulf	K5TM (K5ZD)	W5MYA	N5AF
Canadian	VE1QST (AK4L)	VE3DAP	VE3ART

Table 2
Top Ten

Phone	
N7DD (K7JA)	309,320-2090-74
KØRF (WØUA)	284,604-1923-74
WA7NIN	282,828-1911-74
K5TA	279,572-1889-74
N7DF	268,768-1816-74
K6MYC (N6IG)	251,896-1702-74
K7RI (W7WA)	251,452-1699-74
N6RO	250,416-1692-74
W5WMU	249,232-1684-74
W6XX	243,460-1645-74

CW	
KØRF (WØUA)	176,268-1191-74
K5TM (K5ZD)	167,684-1133-74
N6TR	166,858-1143-73
K1AR	166,586-1141-73
K6LL/7	166,148-1138-73
K3UA	164,834-1129-73
K1KI	164,448-1142-72
K5GO	164,104-1124-73
N6RO	161,320-1090-74
K1TO	159,692-1079-74

Table 3
Top Ten Low Power

Phone	
K7SS	211,788-1431-74
AA5B	207,612-1422-73
WØCP	183,816-1242-74
K1LL	172,568-1166-74
W7XN	167,092-1129-74
AK6U	158,508-1071-74
WA6DIL	158,064-1068-74
KØAB (WBØIWL)	155,744-1097-71
KB4I (K2PO)	151,548-1038-73
KM5H	147,168-1008-73

CW	
W1ZT	139,392-968-72
AD7K	135,780-930-73
K4XU	135,050-925-73
K7SS	133,792-904-74
NØNO	132,048-917-72
W2TZ	131,760-915-72
WØCP	131,760-915-72
W5MYA	128,880-895-72
K7MX (KB7G)	128,160-890-72
KØLUZ	125,856-874-72

Table 4
Top Five Multiop Scores

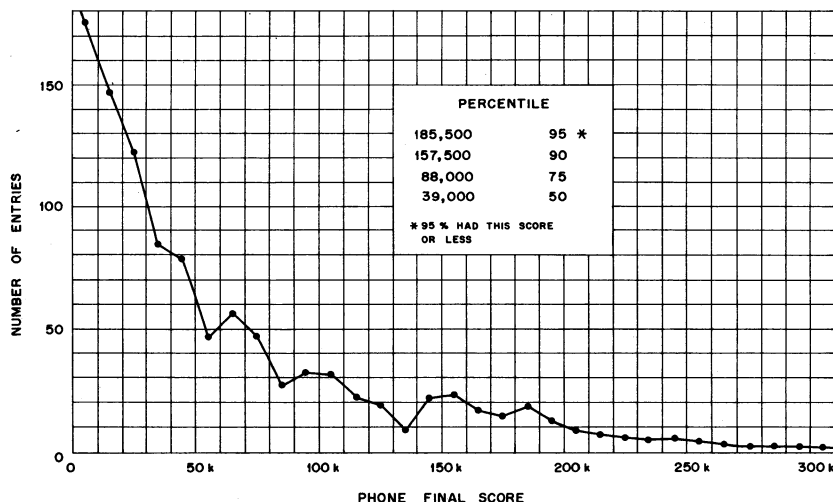
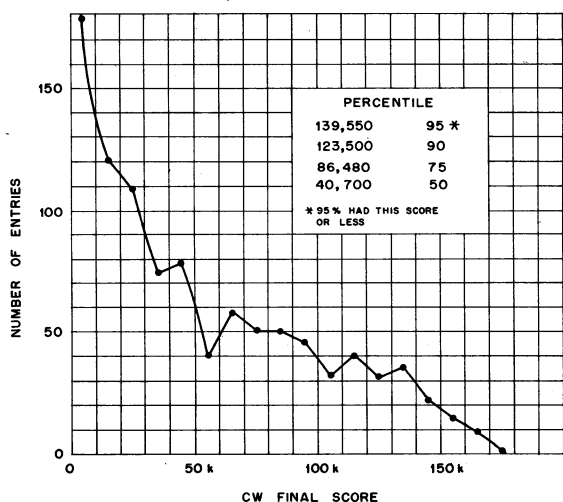
Phone	
W7ZR	233,692-1579-74
AKØT	218,448-1476-74
N4VWV	217,708-1471-74
AA6G	216,086-1460-74
WØSA	206,460-1395-74

CW	
K1VTM	147,744-1026-72
AG7M	143,080-980-73
KØWA	140,400-975-72
WB8JBM	137,232-953-72
K7QA	130,640-920-71

Table 5
Clean Sweeps — Both Modes

K1TO, W1RM, N2NT, K4PJ, K5TA, K5ZD, WA3OVC/5, N5DU, N6RO, K7JA, W6YX*, N6AUV*, W7WA, K7SS, WØUA

*Multioperator



Score distribution for the 1980 Sweepstakes.

While some people really had the big hardware to back them up, one top-ten finisher on each mode managed to make it with either dipoles and/or delta loops on 40/80 and a tribander for 10/15/20. Big antennas do help, but they certainly can't be a substitute for operating ability. See if you can fine tune your own effort before the 1981 Sweepstakes and move up a few notches!

Looking closely at the Top Ten scores you may see that the West Coast engineered a "clean sweep" of all 10 positions on phone, while on cw the leaders were spread out pretty evenly. Only the upper midwest and southeast were left out in the cold this year. Interestingly, the southeast and upper midwest were represented in the low power and multiop top scorers.

Chip, K7JA, made it as number one for the 10th time, this year on phone, showing that his recent stay in Japan certainly didn't take the edge off his domestic contest-operating techniques. On cw, George, WØUA, outdistanced the competition by a good margin (not to mention his number two phone effort). Seems like the low-power scores edge closer and closer to the high-power scores each year. Another George, W1ZT, finally made the top spot on low power cw after several years of trying, while Dan, K7SS, put in an excellent effort on phone to grab the first spot, in addition to number four on cw. Operating a multioperator Sweepstakes station must be one of the toughest things to do. It's been many years since a top multiop effort has equaled a Top Ten single-operator score. Perhaps the competitive intensity just can't be developed, or maybe most people use multiop efforts to train new operators. Congratulations to the groups at W7ZR (phone) and K1VTM (cw) for their fine efforts.

Club competition continued to be an essential ingredient with almost exactly 50% (1163) of the entries participating for a club. The big winner again was the Northern California Contest Club in the Unlimited category, though the Potomac Valley Radio Club is inching closer. In the Medium category, the organizers in the



Pat, W5WMU, put in a lot of hours on antenna work, which paid off with a ninth-place single-operator finish on phone.



AKØT (sitting), and, I-r, WBØYIB, KCØW and WAØCYW teamed up to operate AKØT to the number two position for multioperator stations in the 1980 phone SS.

Texas DX Society did a truly impressive job, more than doubling their score from last year to vault from fifth to first place! In the Local category, the number one spot goes to the crew from the Willamette Valley DX Club, who moved up from last year's third position.

New to the writeup this year is a graph showing the distribution of scores on both modes, and a table showing where the 50-, 75-, 90- and 95-percentile marks are. Perhaps next year if a little more time and interest is expressed, scores could further be broken down by high- and low-power categories. Thanks to K3WT for this idea.

Estimating the number of participants in the contest isn't an exact science, but judging from the calls in the logs received the best guess is that perhaps 3500 or 4000 made more than 10 QSOs on cw and something like 6000 or 7000 did on phone. Thanks to all who sent in logs or check logs and to those who helped by giving out QSOs to the competitors!

SOAPBOX

Do away with the minimum half hour off times. If you are drinking a lot during the phone contest, it sure is

Table 6
Club Competition

Unlimited Category	Score	Entries	Phone Winner	CW Winner
Northern California Contest Club	10,821,317	113	WA7NIN	N6RO
Potomac Valley Radio Club	7,207,750	85	N8II	W3LPL
Medium Category				
Texas DX Society	5,346,694	48	K5RC (K5ZD)	K5GA
Ill-Wind Contesters	3,932,924	47	K9HMB (K9GL)	W9RW
Murphy's Marauders	3,777,951	43	K1PR	K1TO
Yankee Clipper Contest Club	3,605,198	39	W2PV (K1AR)	K1AR
North Texas Contest Club	2,649,732	31	KA5Q	N5CR
Western Washington DX Club	2,372,650	27	K7RI (W7WA)	W7WA
Mad River Radio Club	2,085,494	18	AD8P	K3LR
Colorado Contest Conspiracy	1,711,594	10	KØRF (WØUA)	KØRF (WØUA)
Central Michigan ARC	1,524,596	22	WD8JFE	N8BIK
Wireless Institute of the Northeast	1,365,506	19	W2RQ	W2RQ
Frankford Radio Club	1,129,968	15	K3ZA	K3WW (KA3BLP)
Connecticut Wireless Assn.	1,109,044	10	W1XX	W1RM
Eastern Iowa DX Assn.	1,044,816	13	WØEJ	WØEJ
Kansas City DX Club	997,956	10	KBØX	WBØUXI
Murgas ARC (PA)	986,008	20	WB3FAA	KA3A
South Jersey Radio Assn.	916,608	29	W2PAK	W2PAU
Mississippi Valley DX & Contest Club	836,534	13	K9BGL	KBØRC
Ft. Wayne Radio Club	707,974	13	K9UWA	K9UWA
Point Radio Operators Society	690,792	12	K3UA	K3UA
Norwood ARC (MA)	674,534	12	WA1EOT	K1CB
Penn Wireless Assn.	630,990	14	WB3DJF	K3PA
OH-KY-IN AR Society	620,182	15	WA6EZV/8	AA8Z
Rockford ARA (IL)	575,130	22	AK9N	WD9DBC
Kettle Moraine RA (WI)	479,080	17	N9KS	N9KS
Lynchburg ARC (VA)	469,816	11	AA4FF	AA4FF
Northern Ohio ARS	335,924	11	N8TN	AA8S
West Allis (WI) RAC	281,720	12	K9WTF	K9KR
Reading (PA) RC	250,656	12	WB3AAK	
Local Category				
Willamette Valley (OR) DX Club	944,346	7	W7NI	
Machine Contest Club (MI)	910,718	9	K8MJZ	A18D
South Jersey Contest Coalition	900,746	8	W2KI	N2CQ
Lincoln (NE) ARC	787,008	6	KØSCM	
Arrowhead RAC (MN)	603,766	7	KØIJL	KØIJL
Fraternal Order of Radio Contest Enthusiasts (MN)	593,244	5		
Overlook Mountain (NY) ARC	587,880	10	WA2STM	W2XL
Central Florida DX Assn.	579,386	6	N4SA	N4SA
Buffalo Area DX Club	553,142	7	K2ZJ (WA2LCC)	N2CU
Texas Assn. of Contest Operators	498,404	4		
Western ARA	474,139	8		

difficult to wait until one of those few off times to go the bathroom (N2MF). I've got a keyer with a memory, but somewhere along the line it developed a mind of its own, too! Darned thing kept sending things other than what I'd intended (KCØW). An absolute electronic orgy! (WD5GSL/WBØTEV)... then on Monday, Murphy got nasty — did a number on the power transformer on my Hammarlund HQ-145 rcvr. It went up in smoke while the wife and I were at work (that's the brownish stain on my entry). Fortunately, the transformer opened up before any fire damage occurred to the house (WB9ECM). Unfortunately, I used "WI" for my section in many of my exchanges... I realized that "WI" might also be considered as West Indies what with new call sign regulations/allocation (W9YCV). Greetings to the inmates at QST. Enclosed, please find the efforts of

several efficient operators and one moderately cooperative APPLE II mini-computer that did our logging and duping (WA9AWO). Highlights of the 1980 phone SS... Having VY1AC call me and then listening to him call CQ (without an answer) for 10 minutes... Working VE1CCC for a "clean sweep" with only seven minutes to go in the contest (WB2VFT). Murphy struck in the form of a broken water line. So I spent some of my precious contest time digging for pipes instead of points (KX4V). The starting moments of the contest always amaze me as the bands change from the casual cw QSO to the competitive madness of Sweepstakes. I hope the phone boys have as much fun (W3CEI). This contest is my fourth this year and I have yet to work Maine — that's over 400 hours of operating. Did someone "pull the plug" on Maine or did their squirrel die? (W3GNR).

Arapahoe (CO) RC	470,132	5		K0BN
Eastern Connecticut ARA	440,152	6		K1YRP
Wisconsin Valley RA	422,682	7	W9NA	W9NA
Saginaw Valley (MI) ARA	411,064	9	WB8AYW	N8RW
Motor City RC (MI)	396,530	10	W8MRM (WB8RNY)	K8RV
DX Assn. of Connecticut	384,700	8	K1WJ	WA1CCR
Indy DXers (IN)	365,264	3		
Schenectady (NY) ARA	359,008	7	K2AE (WB2CFP)	WB2CFP
Columbus (OH) ARA	357,448	8	W8LNO	W8ETU
Central Arizona DX Assn.	340,536	3		
Providence (RI) RA	335,232	6	WA1TAQ	
Canton (OH) ARC	320,562	8	AK8W	W8IM
Poughkeepsie (NY) ARC	318,204	8	WA2YSM (WB2KMY)	K2GBH
Splitrock (NJ) ARA	296,426	6	K2RF	K2BLA
Southeastern DX Club	291,758	5	AA4NC	
Northrop RC	283,026	6	W6CN	
Twin City DX Assn. (MN)	279,524	3		
IBM Owego (NY) ARC	276,496	6		K2MQY
RC of Tacoma (WA)	269,296	7	W7LKG	
Ozarks ARC (MO)	254,236	7	WB0OQV	WB0OQV
Mid-Missouri ARC	253,152	4		
Mitre-Bedford (MA) ARC	243,178	8	W1FM	W1FM
Fox River (IL) RC	237,736	3		
Harlan County (KY) ARC	237,556	8	ND4Y	WD4NWW
Ventura County ARC	236,500	8	WA6DJS	
Eastern Michigan ARC	232,756	7	K8DD	K8DD
St. Charles (MO) ARC	232,174	5		AG0U
Foothills ARS	225,088	7	K6MA	W6ASH
Southern California				
Contest Group	223,586	3		
West Park Radiops (MI)	214,078	7	W8IMF	K8AAZ
Great South Bay				
(NY) ARC	202,946	4	WB2TCQ	
Natchaug (CT) ARA	197,136	5	KA1CI	
Ramapo Mountain ARC (NJ)	194,538	7	WB2ARS	WB2ARS
Ohio Valley ARA	187,832	3		
Gloucester County ARC (NJ)	183,106	6		K2HPV
Onalaska (WI) Wireless				
Assn.	169,718	5		KA9BJO
L'anse Creuse (MI) RC	160,798	9	K8RO	WA8VEB
Southeastern Michigan ARA	150,582	3		
Atlanta Radio Club	148,770	5	WB4VSP	
Utica (NY) ARC	147,504	6	K2SOT	K2XU
Wichita (KS) ARC	145,190	4		
Valley Radio Club				
of Eugene (OR)	137,820	4		A17W
San Diego DX Club	130,624	3		
Lockport (NY) ARA	122,668	6	KA2EGC	AE2T
Granite State ARA (NH)	115,714	4	WB1FNO	
Wild Rivers (WI) ARC	105,604	4	N9BMK	
Flyweight (TN/VA)				
DX Group	103,774	3		
Hazleton (PA) ARC	90,200	3		
Long Island Mobile ARC	89,122	7	N2RQ	
COMSAT ARC (MD/VA)	88,550	5		K4JSI
Central Wisconsin ARA	87,708	6	WD9ESX	KA9ACC
Lake Success (NY) RC	74,844	7	WA2ISH	WA2ISH
Cuyahoga Falls (OH) ARC	69,408	5	W8DXT	
Lebanon Valley (PA)				
Society of RA	65,916	7	WA3NTJ	WB3AKI
Chicago Radio Traffic Assn.	58,026	4	W9HPG	
Syosset (NY) High School				
AR & TV Club	47,912	3	WB2QEU	
Hamfesters (IL) RC	46,786	3		
Iolani School RC (HI)	38,862	3		
Fresno (CA) ARC	27,228	3		



N2CU lost a little sleep and paid the price in his successful quest to be number one on cw from the Western New York Section. Is there an eye doctor in the house?



N7DF is shown cleaning up his "Sweep-Stakes-Logs." We wonder if Larry knew when he took this picture that he wood end up with the number five score for single ops on phone of his own accord.

humorous phonetics; WA1 Great Big Apples, WA0 White, Bald and Ugly, etc. Then I decided to try WA0 Pineapples, Bananas and Lemons (WA0PBL). The number of stations who duped me was very discouraging. I kept a running dupe sheet by suffix and did not deny any QSO based on suffix duping but just marked the log as a possible dupe. The entire log was reduped by prefix and only about 10 of the possible "dupes" were found to be the same suffix with a different prefix. This was only .51% of the total contacts representing only 7.28 minutes of operating time. At this rate the value of suffix duping over prefix duping becomes about equal. The total dupes were about 3.03% of the total number of contacts or about 2.5 per hour. In the first three days after the contest, I have received over 200 QSL cards. The "penalty" for being in a rare state, I guess. In fact, there were five cards waiting in my box Monday morning; I didn't know the Postal Service was so fast. (N7DF). I would like to encourage 5BWAS (5 Band Worked All States) to work the Open CD Party where credit is given for a QSO with the same station on different bands. Would be nice to see the SS be 20 hours out of 30. It's hard on us old timers (34) (K7QD). Found defending my 1979 section and division title more difficult than expected. Michigan deer-hunting season opened the same day as SS. Made the decision to hunt and defend the title. Got buck at 6:30 A.M., got home at 7:30 A.M., then rested and got into the contest with extreme confidence. Now the long wait to see if this "hunt" was successful (W8JWN). [Sure was successful, Tom — tops in low power in Michigan and in the Great Lakes Division — Ed.] The way the QSO rates drop off on

Too many East Coast ops give up on 15 meters too soon after dark . . . spent final contest hour on 15 and picked up four new multipliers! (WA2SEL). Although I thought that the contest seemed long, it's nowhere near as long as your task of checking all those logs! (W9UVM). [Roger that, Jim — Ed.] The second annual trip by the Rochester (Minnesota) ARC to North Dakota, still find it a popular section from which to contest (W0SA). Why am I asked to repeat my "ck 35" so often? Us "Old Timers" still enjoy operating even if we do have trouble keeping up with the "young squirts." Believe me, "CK 35" is correct! (W4XD). Biggest thrill for me was working VE8HB four minutes before the end of the contest. So much QRM that I almost didn't make it (N9ALC). I was very delighted to have a "clean sweep" in my first attempt at SS (KB8EI). Sure was embarrassed the next

day when I discovered that I had operated for 24-1/2 hours. Goodbye 18 hard-to-find QSOs! (K1KI). My new call sign confused several ops. One chap from Florida replied "No DX, please." When I told him that I didn't know that Maine was on the DXCC countries list, he said in a slow drawl, "The funny way yew Yankees talk made it sound like DX." Hi! (AK1W). Just knew that *this time* I could go the full 24 hours. Sure enough, I dropped dead after 18 hours (N4TY). [R.I.P. — Ed.] Recipe for SS: 2000 log spaces (never filled), 1/2 cup of pencils, 2 pounds of erasers, 1 rig, 1 extra set of finals, 7 elements up 100 feet, and 2 gallons. Broil for 24 hours and check for dupes (KA3FMH). I heard about a guy who was so tired that he answered his own memory keyer. After CW SS, I believe it (A17W). Believe it or not — the most *courteous* SS yet! (AA6DX). I enjoyed the

Sunday, why not make it a QSO once *per band*? Imagine, a 24-hour sprint! (WB8JBM). Oklahoma was easy pickins for everyone — except me. Only worked one Oklahoma . . . better than none (KM5H — Oklahoma Section). I think that SS is still the greatest contest going. Sure it can get boring, but it is the only contest where the little guy can compete with the big gun on almost an even level. While kilowatts and a big antenna system give one a definite advantage, operator ability is quite equally important (K6OMB).

FEEDBACK

On cw, N4AWZ should have been credited with 32,612 points in Georgia. We missed counting KE4I as one of the few with a clean sweep on both modes. W9RE was inadvertently credited with the Central Division record on phone, which K9CT should have been credited with. N4SA was the Northern Florida leader on phone as N4WW (+K000) should have

been listed as the Southeastern Division multioperator leader. The Hudson Division phone record still belongs to K2TR ('78), not W2PV; in the Southwestern Division W7KW was the all-time leader (N7DD now), and W6AM the cw leader. The Fresno ARC should have been credited with 79,410 points (5 entries), and the Northern California Contest Club with a total of 15,184,266 points (145 entries). Finally, K2BLA, not K2RF, should have been listed as the club cw-certificate winner for the Split Rock ARA.

The scores are listed by call area, ARRL section and in order from highest to lowest score. The single operators are listed first and the multioperator scores are listed at the end of the section listings. The linescore reads: call score — number of multipliers — number of hours of operation — power indicator A power indicates 200 watts or less (dc) used at all times, and B power means that a dc input of greater than 200 watts was used. Example N6TR 173,752-1174-74-24-B means N6TR had 173,752 points. 1174 valid QSOs, a clean sweep of all 74 possible ARRL sections in 24 hours of operation, and used a dc input of over 200 watts.

CW Scores

U.S.A.

1

Connecticut

KIKI	164,448-1142-72-24-B
KITO	159,692-1079-74-24-B
KIPR	151,372-1066-71-24-B
WIZM(K12M,opr)	148,148-1001-74-24-B
WIRM	137,344-928-74-24-B
KIXA	135,072-938-72-24-B
WIEF	133,882-917-73-24-B
KIWB	131,108-898-73-24-B
WIXX	124,818-879-71-24-B
WIBH	124,818-879-71-24-B
AA2Z/1	120,096-834-72-24-B
W1ACCR	110,960-760-73-23-B
KIRT	106,358-749-71-19-A
WIECH	105,264-731-72-24-B
KIJD	94,792-697-68-22-A
WITCJ	94,392-684-69-21-A
WIGNR	83,496-588-71-22-B
KIRM	86,688-602-72-24-A
KIYRP	76,728-556-69-22-A
WIGNC	71,154-531-67-12-B
W1AYEC	68,206-509-67-19-B
W1ADWE	67,728-498-68-18-A
KIWI	61,248-464-66-15-B
WIKKPS	50,274-399-63-10-B
KNDPFS	47,744-343-66-24-B
KIDD	37,572-303-62-13-A
AAIK	33,396-242-69-10-A
NICC	32,400-270-60-6-A
KICBR	28,704-208-69-9-A
AJIT	28,670-235-61-9-A
KAIDZV	27,560-205-53-23-B
KIDW	21,012-206-51-8-A
KINYK	19,140-174-55-7-A
KAIDYT	16,922-177-48-17-A
ABIU	14,798-151-49-4-A
K1ALV	11,340-126-46-18-A
KLUQE	6,510-105-31-11-A
NJW	5,950-85-35-3-A
KAIBMB	5,548-73-38-6-A
KITHP	70,220-70-28-2-A
WIOD	10,888-34-16-1-A
KIVTM(+K1s CC JX, W1ABIA)	147,744-1026-72-24-B
W1AGBA(+W1AHYN)	100,110-705-71-23-B
AJIG(+W1BCPF)	81,192-597-68-8-A
KAIDBK(+KAIDYT)	2408-43-28-20-A

Eastern Massachusetts

NIEE	118,406-811-73-24-B
KICB	99,968-704-71-23-B
WIFM	82,944-576-72-24-A
KIBU(W1ABNT,opr)	79,016-581-68-16-B
W1AUZH	67,670-505-67-15-B
W1AOLV	63,756-462-60-20-B
W1WAI	57,360-485-64-12-B
NIRC	57,472-449-64-17-A
ADIC	54,648-396-69-19-A
KXIM	48,512-379-64-13-B
W1EOT	40,824-324-63-7-B
W1KEE	37,674-299-63-22-A
W1ICNM	32,520-271-60-17-B
W1AX	24,000-200-60-24-B
W1DFV	18,020-170-53-6-A

NIAU	10,530-117-45-11-A
W1AITQP	9200-100-46-7-A
W1SR	8190-91-45-3-A
W1PLJ	7476-89-42-10-B
KAIEPO	6408-89-36-21-A
W1LKKX	5148-66-39-1-B
KAIFUL	1476-41-18-12-A
W1JR	1200-30-20-4-A
W1BLED	986-29-17-8-A
W1BISC	672-24-14-11-A
W1CFC(W1LKKX,opr)	600-25-12-1-A
W1TUM	180-10-9-3-A
W1ZFI	50-5-5-2-A

Maine

KIPV	72,588-526-69-18-A
W1KXK	43,282-323-61-11-A
W1BGLH	40,066-299-67-20-A
KISA	12,740-130-49-3-B
AKIW	10,080-105-48-19-B
W1FS	7752-76-51-7-A

New Hampshire

K1AR	166,586-1141-73-24-B
K1RX	127,604-874-73-24-B
K1LX	119,428-818-73-24-A
AKIA	103,376-728-71-24-B
W1AQCC	89,460-639-70-24-A
W1HCS	86,688-602-72-24-A
AKIZ	81,736-601-68-22-A
W1JY	40,382-331-61-24-B
W1UN	29,232-232-63-7-B
W1BEV	20,252-166-61-11-A
KIGW	20,240-230-44-7-A
AKIJ	9000-100-45-7-A
W1JY	4752-72-33-20-A
KAIBBI	3808-56-34-8-A

Rhode Island

K1IU	139,576-956-73-24-B
NIRI	73,830-535-69-20-A
W1AICV	57,408-416-69-18-A
KIDS	8400-100-42-4-A
W1RFQ	6068-74-41-5-A
KAIAWS	660-22-15-5-A
W1OP(K1DT,KAIAWS,N1s AKO)	20,256-608-66-22-B
BBM,W1GS,W1s RKL TAQ,	
W1BCVV,opr	31,842-261-61-20-A
W1VQY(+W1VYDU)	

Vermont

W1IGQR(WB2JSJ,opr)	733-68-22-B
W1AUGV	542-71-22-A
KAIBXW	15,322-163-47-10-A
W1KQ	12,264-146-42-9-B

Western Massachusetts

K1BW	147,606-1011-73-22-B
NITZ(K1EA,opr)	143,080-980-73-24-B
W1ZT	139,392-958-72-24-A
K1DPB	46,345-357-65-11-B
W1BHIH	23,484-206-57-7-B
K1IJJ	20,520-180-57-7-A
W1JP	8400-105-40-6-A

Eastern New York

W2YV(N2NT,opr)	158,656-1072-74-24-B
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W2XL	98,420-703-70-23-A
W2STM	90,596-638-71-24-A
WB2CFP	79,764-578-69-22-B
K5NA/2	58,752-432-68-10-B
K2GBH	41,990-323-65-9-A
W2TJE	38,808-294-66-19-A
KA2EME	38,556-306-63-24-A
W2DW	38,412-291-66-8-B
K2ZL	34,224-276-62-21-A
N2EK	30,120-251-60-10-A
KA2KGG	25,992-228-57-14-A
AA2Y	21,600-200-54-9-A
W2ARQ	20,020-143-70-23-B
W2BXT	17,880-149-60-21-A
W2NRD	17,770-150-59-18-A
K2GSF	11,300-113-50-9-B
W2PKY	7800-100-39-5-A
K2O	19-12-1-A
WB2KMY(+KA2AK)	47,580-366-65-19-A

New York City - L.I.

K2SX	124,830-855-73-21-B
N2CQ	103,234-727-71-24-A
K2AU	99,308-671-74-19-B
WB2TCQ(WB2RNT,opr)	89,568-622-72-24-A
KA2CLQ	89,940-438-65-24-A
WB2DHY	43,188-354-61-24-B
WB2JAY	27,028-233-58-10-A
W2AISH	25,048-202-62-14-A
W2BQJ	18,810-171-85-13-B
K2ACLV	21,420-210-51-11-A
K2CVM	21,204-186-57-13-B
KA2HTH	18,810-171-85-13-B
K2HVN	9522-69-69-7-A
KA2ELB	7650-85-45-7-A
K2GEM	7408-73-48-4-A
W2EYV	4368-66-33-5-A
N2BZK	2240-40-28-6-A
N2RQ	736-23-16-6-A
W2CZ	260-19-9-8-B
KA2KGH	192-12-8-6-A
W2NBI	32-4-4-2-A

Northern New Jersey

W2RQ	158,544-1101-72-24-B
W2RA	119,138-839-71-23-B
W2A	111,220-823-70-24-A
N7TT/2	114,736-808-71-20-B
AC2U	112,274-769-73-24-A
W2SHM	101,016-732-69-23-B
W2VZW	95,480-682-70-20-A
W2GD	93,100-665-70-11-B
W2SQ	90,720-648-70-13-B
W2QVE	90,454-377-71-25-B
K2JT	87,500-625-70-19-A
WB2FUE	68,586-497-69-23-A
AF2L	66,000-500-66-14-B
K2CW/2	50,820-353-70-15-A
K2BLA	47,320-364-65-15-B
WB2NGT	48,416-356-68-15-B
WB2ARS	46,970-385-61-21-B
WB2IKL	33,422-287-63-12-A
W2JAX	32,004-254-63-25-B
K2RF	27,600-230-60-13-A
W2HR	9240-105-44-6-A
W2TPJ	8910-99-45-5-A
W2ZEP	7020-130-27-5-A
W2TI	6480-108-30-3-A
W2NPT	4368-91-24-15-A
WB3JON/2	402-61-35-5-B
K2BJK	1150-61-35-5-B
WB2OHV	1118-43-13-6-A
KA2ACM(+WB2KYE)	537-71-24-B
K2GQ(N2BQ,KA2EYH,WA2NXW,	
WB2s KGN RLB,opr)	25,842-219-59-16-B
KA2INC(+KA2IPV)	12,236-133-46-23-A

Southern New Jersey

N2CQ	137,232-953-72-24-B
W2VQ	106,260-759-70-22-B
A2ZE	104,974-719-73-22-B
K2BFD	97,300-695-70-24-A
W2KI	87,720-645-68-14-B
W2PAU	74,124-522-71-19-B
N2UJ	62,016-456-68-13-A
KA2BOP	56,682-423-67-16-B
W2BOK	47,754-379-63-21-B
W2SUT	41,580-330-63-23-B
K2HPV	41,470-319-65-18-A
K2OSV	31,842-261-61-16-B
W2NBM	25,080-200-57-17-A
WB2LVF	22,000-200-55-13-A
W2BPHD	16,016-154-52-10-A
W2EA	14,700-147-50-8-A
W2FGY	14,112-126-56-16-B
W2GTZ	62-17-6-A
N2AWC	330-15-11-5-A
KA2IYV	286-13-11-3-A
KA2CQX	60-6-5-1-A
N2ME(+WB2YOF)	64,610-497-65-15-B

Western New York

N2CU	139,536-969-72-24-B
W2TJ	131,760-915-72-24-A
W2RR(WB2ABD,opr)	111,024-771-72-24-B
AE2T	99,280-730-68-24-B
N2ET	79,488-576-69-20-A
N2DE	76,020-543-70-24-A
K2MQY	61,202-431-71-19-A
W2ROE/2	57,936-426-68-18-A
W2EYV	57,552-436-66-15-B
N3GO/2	54,912-429-64-24-A
N2GU	43,164-327-66-18-A
W2EZE	40,698-323-63-15-A
W2VJ/2	40,260-305-66-15-B
K2RN	40,052-323-62-16-A
W2UP	39,060-310-63-5-B
K2XU	39,468-299-66-14-A
K2KIR	35,844-309-58-9-B
W2IM	29,890-245-61-11-A
K2VF	29,432-283-52-17-A
W2VQ	21,324-213-59-13-A
W2BZGV	19,872-184-54-18-A
W2BZY	19,800-165-60-6-B
W2ALEZ	13,300-133-50-9-A
KA2DFM	11,748-89-66-17-A
K2BK	9,960-112-40-9-A
K2BJV	5472-72-38-13-A
W2SWL	4970-71-35-6-A
K2UJN	4050-75-27-7-A
KA2HUC	2288-52-22-13-A
K2QR	1968-41-24-1-A
N2DM	770-35-11-3-A
KA2EGC	342-19-9-8-B
W2MVF	2-1-1-1-A
W2SDY(KA9EQU,WB9THV,opr)	63,512-467-68-18-A

3

Delaware

K3HBP	32,004-254-63-9-B
N8NA/3	17,472-168-52-5-A
KA3CMR	2700-50-27-4-A

Eastern Pennsylvania

K3PA	138,450-975-71-24-B
K3WW(KA3BLP,opr)	120,680-862-70-23-B
W3RJ	98,736-726-68-12-B
K3ONW	95,900-685-70-20-B
K3WJV	80,266-599-67-15-B

AA3B	69,960-530-66-17-B
KA3A	65,302-460-71-11-B
KA3BOD	64,008-508-63-17-A
K3TX	53,406-387-69-16-A
W3MA	47,916-363-66-12-B
K3VW	46,440-358-65-7-A
KA3BKV	45,312-354-64-23-A
WB3CAI	45,292-338-67-24-A
N2EV/3	42,456-366-58-16-A
K3KW	41,406-309-67-11-A
W3MVP	40,576-317-64-15-B
W3AQUZ	38,896-374-52-18-A
W3CNS	37,448-302-62-10-A
W3FAA	36,616-306-61-20-A
W3ADE	34,060-262-65-15-A
W3EYF	33,428-278-61-16-A
W3SFD	32,760-273-60-15-B
K3ZHD	30,240-248-65-13-A
W3IKU(K3FD,opr)	24,120-201-60-7-B
K3VYA	23,850-225-53-16-A
K3BJK	18,700-187-50-12-A
K3OO	18,400-200-46-4-A
K3GL	16,640-160-52-13-A
W3AKI	16,366-167-49-16-A
W3CI	13,070-167-39-13-A
W3LZN	12,690-135-47-15-A
A13Q	12,240-120-51-9-A
W3SIGS	7800-150-26-16-A
K3SMT	7272-101-36-24-A
AG3R	5440-85-32-2-A
W3KRUV	3564-54-33-10-A
W3YON	50-29-13-A
W3MTR	2580-43-30-4-A
W3HMR	960-30-60-3-B
KA3FKL	884-26-17-11-A
W3LGS	292-11-11-13-A
KA3DZV	192-12-8-6-A
W3SAL	50-5-5-1-A
W3KAB(WB3FLK)	18-3-3-1-A
K3BKG(+WB3FLK)	39,130-301-65-22-A
W3BN(K3WGR,KA3AXE,K3BER,	
W3CAL,opr)	32,332-274-59-16-A
W3MNN(+W3YNC)	28,768-232-62-17-A

Maryland - D.C.

W3FQE 3410- 55-31- 6-B
W3VPL 2912- 56-26- 2-B
W3GQV 1800- 36-25- 2-B
W2VUJ/3 1600- 40-20- 8-A

Western Pennsylvania

K3UA 164,834-1129-73-24-B
K3LR 158,118-1083-73-24-B
K3VK 112,000- 800-70-23-A
AD8J/3 93,296- 686-68-20-B
K3VX 13,060- 579-70-20-A
W3HDH 67,452- 462-73-12-B
K3ANOM 62,040- 470-66-16-A
W3GNR 59,780- 427-70-19-A
W3MMDY 52,864- 413-64-12-A
AF3B 42,900- 325-66-11-A
K3ABMU 41,600- 325-64-20-A
AG3H 33,728- 272-62-18-A
W3KAF 15,300- 150-51- 7-B
K3AFMH 11,224- 122-46-14-A
W3W 7800- 100-39-24-A
N3BW 6080- 80-38-14-A
W3AS 3780- 70-27- 1-A
K3DDG 2756- 53-26- 9-A
K3FJX 1482- 39-19-14-A
K3CR(KA3GNP,N3BAO)
W3WMP,WB3KEO,W3VAV,
WDBPUH,oprs) 63,232- 494-64-24-B

4

Alabama

N4KG(WN4KKN,opr) 15,926-1041-73-24-B
N4QB 99,216- 689-72-22-A
K4JXS 38,544- 292-66-21-A
K4GSK 31,500- 250-63-12-A
W4APZN 25,850- 218-61-12-A
K4ZS 12,688- 122-52- 8-A
K4ZGB 7200- 100-36- 4-A

Georgia

K4BA 135,342- 927-73-24-B
KB4I(KP2O,opr) 104,300- 745-70-24-A
N4T 99,820- 713-70-24-A
K4HAV 84,388- 578-73-23-B
N4VZ 79,200- 578-73-23-B
KB4M 75,757- 557-66-12-A
K3PJ/4 68,272- 502-68-22-A
NA4J 46,860- 355-66-14-B
AA4U 29,646- 243-61- 6-A
W4SAS 10,080- 112-45- 8-A
K4Y 3036- 46-33- 5-A
W4DOC(KA4S DDQ DQF MDF,
KRAW,N4S DHH ZM,W4EAO,
oprs) 12,126- 129-47-23-B

Kentucky

K4FU 104,440- 746-70-24-B
WB4FOT 84,456- 612-69-23-A
W4OTD/4 84,456- 612-69-23-A
N4TY 57,070- 439-65-18-A
K4AIDW 48,230- 371-65-24-A
K4AVX 41,328- 328-63-10-A
W4CNW 31,680- 264-60-11-B
W4OYI 24,360- 203-60- 8-B
K4AHWG 17,808- 168-53-10-A
K54K 60- 6-5- 5-A
W4CN(KA4AT,K4AAS DKX,
FJJ IQD JEE JMX,N4XMO,oprs)
60,324- 457-66-23-B

North Carolina

NA4A 122,400- 850-72-20-B
W44FFW 113,884- 802-71-24-B
AA4NC 108,062- 761-71-24-A
N4FD 91,420- 653-70-24-B
K4UWH 84,456- 612-69-23-A
W6NSW/4 76,464- 531-72-23-A
K4WE 40,320- 320-63-11-A
KB4C 26,332- 198-67-15-A
AA4NN 21,680- 246-60-11-B
N6DR/4 17,442- 171-51-24-A
K4AFJ 10,600- 164-50-14-A
KF4I 15,984- 108-74- 7-A
K4AODX/N 11,022- 75-37-12-A
KACAX 6800- 100-34- 4-B
W1FTX/4 6800- 85-40- 5-B
W4DGG 6232- 82-38- 7-B

North Florida

N4SA 135,342- 927-73-24-B
N4WW 69,960- 530-66-12-B
W4AT 43,656- 321-68-16-A
N4EF 43,248- 338-68-20-A
W2AW/4 22,162- 180-58- 8-A
W44ICQ 5390- 77-35- 3-A
W4VQ 1728- 36-24- 2-A

South Carolina

AE4Y 89,060- 610-70-20-A
N4ZG 55,342- 413-67-17-B
K4ADI 20,400- 170-60-18-A
N4EE 15,840- 176-45-10-B

South Florida

N4BP 142,426-1003-71-24-B
K4XB 64,736- 476-68-12-B
W4DAHZ 57,460- 442-65-18-A
K1ZX/4 50,120- 358-70-12-A
N4DG 14,872- 43-52-15-A
W44ICQ 14,336- 112-64- 5-A
NA4JD 5148- 66-39- 3-A
N4TW 16- 4- 2- 2-A

Tennessee

K4XU 135,050- 925-73-24-A
K4PJ 83,324- 582-74-24-B
K4OAG 82,544- 616-67-19-B
W4AEVB 70,380- 510-69-19-B
K4EF 67,864- 496-61-12-A
W4B4MU 26,130- 201-65-17-B
W4SIS 23,064- 186-62- 7-B
K4ALLN 13,888- 124-56-10-A
W4OGS 75-37-12-A
K74H 1610- 35-23- 6-B
W44UCE(KA4S AIB JRG MGG,
NBB,WA4S OIE QZM,WB2B,
oprs) 29,160- 243-60-24-A
KN4F(+KN4Z) 11,220- 110-51-12-B

Virginia

K4APL 136,604- 962-71-24-B
K4FJ 126,948- 894-71-23-B
W4YE 121,656- 822-74-23-B
N4DW 117,576- 828-71-19-B
W4E 115,640- 826-71-19-B
K4YF 104,976- 729-72-21-B
AA4FF 88,914- 609-73-22-A
W4DM 88,734- 643-69-19-B
K4JST 86- 6- 6- 6-B
N4ZR 72,336- 546-66-17-B
N4CD 69,804- 553-69-11-B
W4XZ 51,762- 444-69-19-B
K4TM 48,714- 353-69-11-B
K4XV 46,498- 347-67-12-A

W3VY/4 42,084- 334-63- 9-B
W4ZEL 41,912- 338-62-18-A
WB4FLT 38,220- 294-65- 9-A
NB4J 38,052- 302-63-16-A
K4SI 37,310- 287-63-13-B
KQDTK/4 35,754- 303-59-11-A
K4CTV 34,770- 285-61- 7-B
N4MTO 33,894- 269-63-24-A
N6CMU 26,078- 221-59-13-B
K4GKD 22,800- 200-57- 4-A
W4JHY 20,862- 183-57- 8-A
AF4O 20,160- 160-63-18-A
W4GDD 17,600- 160-63-18-A
KAGEL 12,642- 129-49- 8-A
W4BHW/4 8,640- 108-40-13-A
W4BZPF 6,900- 75-46-13-A
K4JNES 6,688- 123-28-15-A
W4RX 6,408- 89-36- 5-A
W4DAGE 6,072- 92-33- 4-A
N4DEK 1,218- 29-21- 5-A
K4DHB 780- 26-15- 1-A
N4EM 72- 6- 6- 1-A
N4EA(+N6ZO) 110,448- 767-72-23-B
W4POX(AA4AT,K4AS BFT BFU,
MPR,WB4BAB,oprs) 90,168- 663-68-23-B
W44FKK(+W3DJ) 61,372- 458-67-24-A
K4KDI(KB3MB,N4DSZ,WA4S,
IVF RDI,W4DECK,WDB8KW,
oprs) 57,664- 424-68-24-A

West Indies

KV4FZ(N6OP,opr) 143,226- 981-73-24-B
KPQO/KP4 61,770- 435-71-22-A

5

Arkansas

K5GO 164,104-1124-73-24-B
K5EVR 26,280- 219-60-12-B
K9VBG/5 15,340- 130-59- 9-A
AD5F 6048- 84-36-11-A

Louisiana

WSWG 49,840- 356-70-23-A
K5SA(WA4UI,WB5TKC) 90,576- 628-72-23-A
K3BER/5(+W5E) 61,880- 476-65-24-A

Mississippi

AE5H 39,040- 305-64-16-A
W5VSZ 35,636- 302-59- 7-B

New Mexico

K5TA 155,696-1052-74-24-B
AA5B 123,840- 860-72-24-B
W5SYTX 105,122- 741-71-16-B
W5DJVY 83,212- 586-71-24-B
W5CABW 11,684- 127-46-17-A
W5JOV 9400- 100-47- 4-A

Northern Texas

N5CR 139,576- 956-73-24-B
K5NNW 129,210- 885-73-22-B
W5MAY 95,800- 795-64-12-B
K5AQ 126,432- 878-72-24-A
N5JB 122,056- 836-73-24-A
N5AU 115,048- 788-73-21-A
N5BT 107,018- 733-72-24-A
K5JW 67,200- 480-70-12-B
K5ME 67,024- 472-71-24-B
KB5UL 61,952- 484-64-24-A
N5D 49,500- 775-66-15-B
W5ONL 44,732- 398-62-14-B
K5AMI 44,358- 339-66-21-A
W5PIP 43,554- 357-61-12-B
K5H 42,504- 322-66-14-A
K5HM 34,256- 283-61-12-B
K5CUC/5 26,352- 216-61-10-A
K5AGP/3 20,020- 182-55-24-A
W5V 16,224- 160-56-19-A
K5BAH 17,516- 151-58-19-A
K5HGE/N 2576- 46-28- 7-A
W5SVZL(+N5HD) 248- 596-69-24-A
KB5R(+KB5GO) 61,644- 467-66-22-A

Oklahoma

N8CP/5 94,650- 678-70-24-A
W5W 77,484- 587-66-24-A
K5V 46,718- 329-71-23-A
K5JZN 16,632- 154-54- 6-A
N5CII 5986- 73-41-12-B
N5WIS 5550- 75-37- 1-B
W5RSLR(WB5S KPG PVL,oprs) 53,040- 408-65-24-B
N5KW(+K5CM) 43,218- 343-63-11-B

Southern Texas

K5TM(K5ZD,opr) 167,684-1133-74-24-B
K5GA 153,328-1036-74-24-B
N5JL 147,888-1027-72-24-B
K5Y(KV5ACHW,opr) 146,730-1005-73-24-B
K5MA 146,000-1000-73-24-B
K5GN 143,080- 980-73-24-B
W5BFDN(WA3QVC,opr) 129,056- 872-74-24-B
N5DU 128,908- 871-74-24-B
AD5Q 121,126- 853-71-23-B
K5LZO 119,088- 827-72-24-B
W5WSPB 113,328- 787-72-24-B
K5V 95,296- 759-72-24-B
W5BWHR 95,620- 683-70-24-B
N5SW 91,664- 674-68-16-B
K5ZMI/5 89,280- 620-72-24-A
W5S 82,740- 604-69-12-B
W5JQ 82,740- 591-70-19-B
K5GB 80,154- 549-73-18-B
N5CDO 79,040- 608-65-24-B
W5H 76,176- 529-72-24-B
K5GU 71,898- 521-69-24-B
K5JS 76,320- 530-72-19-B
K5TU 66,368- 488-68-11-A
N5HNS 75,746- 463-71-24-B
N5ATC 54,944- 404-68-22-B
N5BA 42,036- 339-62-11-A
W5ASP 36,352- 284-64-24-A
K5RC 25,836- 289-62- 8-B
K5KG 35,136- 288-61- 7-B
N5EA 27,462- 199-69- 8-B
W5NR 26,412- 213-62-13-B
W5HNS 26,412- 213-62-13-B
W5STOS 19,200- 150-64- 7-B
N5BSW 18,444- 174-53-13-A
W5BOKJ/5 12,444- 144-53-13-A
N5DB 8,652- 103-12- 3-A
N5AF(+W5LV) 2016- 42-24- 3-A
N5AF(+W5EJ) 564- 646-67-24-B
K5SOR(+K5EJA) 66,920- 478-70-22-A

6

East Bay

N6RO 161,320-1090-74-24-B
K6XV 151,048-1042-72-24-B
K6XO 132,860- 910-73-24-B
N6CMU 129,560- 845-74-24-B
K6HIH 115,304- 812-71-24-B
N6KB 115,144- 778-74-24-B
K6ZM 96,360- 660-73-24-B
W6BGP 96,360- 660-73-24-B
K6BOH 50,400- 360-70-18-A
W6BZEP 47,704- 356-67-12-A
K6CSL 35,216- 284-62-24-A
K6PUY 15,668- 145-54-16-A
W6RJ 25,350- 195-65- 7-B
N6TU 22,788- 211-54- 5-B
W6DIL 7722- 99-39- 2-A

Los Angeles

N6PN 113,442- 777-73-24-A
W6OYV 101,232- 703-72-24-A
N6HC 73,840- 520-71-17-B
K6MP 66,300- 510-65-10-B
N6LU 47,704- 356-67-12-A
N6GL 41,236- 338-61-18-A
W6ATF 28,652- 247-58-10-A
W6AG 9372- 71-66- 5-A
W6HQS 4352- 71-66- 5-A
AC6L(+N6S CCE CYL,W6A6JH,
WB6BIM) 68,742- 513-67-24-B

Orange

K6RR(K7JA,opr) 154,216-1042-74-24-B
K6WI 114,610- 785-73-24-B
W6LEN 66,040- 508-65-18-B
K6HRT 51,858- 387-67-19-B
W6DLV 47,704- 356-67-12-A
W6DCT 12,288- 128-48-11-A
W6BZW 9200- 100-46- 3-A
W6BSHL(+N6DFY,WB63 NHV,
K6K) 83,616- 524-67-24-A
N6DNH(+KB6S,N6S DFB DNL,
W6GSH) 28,784- 257-56-24-A
K6CJW(+N6ME,W6GPMX,
W6TOM) 7812- 93-42-24-A

Sacramento Valley

W6TH 127,584- 886-72-24-B
W6SX 114,594- 807-71-24-B
N6JV 110,376- 756-73-24-B
K6SG 101,520- 707-73-24-B
A16V 91,254- 681-67-24-A
W6KZH/6 80,372- 566-71-24-B
W6NKR 79,804- 562-71-24-B
K6YK/M 44,200- 325-68-15-A
K16O(+K6ZBV) 105,696- 734-72-18-B

San Diego

K6NA 146,192-1002-73-24-B
N6SO 111,312- 773-72-24-B
W7KHN/6 107,494- 757-71-20-B
W6UQF 105,846- 767-69-24-A
A6EE 28,272- 60-31- 8-A
N6KW 27,480- 229-60- 8-A
K6XT 22,572- 209-54- 5-A

San Francisco

K6LR 45,080- 322-70-18-A
AA6DX 26,082- 207-63- 9-A
W6BIP(+AA6GM,W6ADJ) 127,020- 870-73-24-B
N6DCJ(+K6AN) 71,712- 498-72-24-B

San Joaquin Valley

W6VJF 141,120- 980-72-24-B
N6GG 129,888- 902-72-24-B
W6YKS 23,616- 60-31- 8-A
N6PR 18,928- 169-56-12-A
W6BITM 14,688- 153-48- 5-A
W6WMP 9936- 60-59-14-A
W6VYAB 3720- 60-31- 8-A
K6EYN 864- 27-16-18-A
W6YKM(+W6EZM) 119,140- 805-74-22-B

Santa Barbara

N6TR 166,858-1143-73-24-B
W6VNN 45,440- 355-64-21-A
K6GB 43,562- 322-68-20-A
K6GKU 7480- 85-44- 9-A

Santa Clara Valley

N6BT 149,812-1019-74-24-B
N6TV 149,504-1024-73-24-B
N6IG 144,720-1005-72-24-B
N6BV 138,384- 961-72-24-B
W6XK 96,360- 660-73-24-B
N6MG 133,792- 904-74-24-B
N6NF 131,066- 923-71-24-B
W6DSV 118,552- 812-73-21-B
W6MSF(WA6) 118,548- 801-74-23-B
A6V 110,618- 779-71-23-B
K6CD 102,200- 730-70-24-B
W6ASH 93,024- 646-72-20-A
K6RU 92,158- 649-71-23-B
N6ZB 88,620- 633-70-21-B
W6SZN 79,236- 558-71-22-A
K6BR 74,550- 525-71-24-B
W6IO 70,280- 502-70-23-A
K6XM 63,920- 470-68-12-A
W6WEG 63,070- 451-70-24-B
W6OKK 60,288- 471-64-12-B
N6S 57,288- 434-66-12-B
W6ISQ 47,088- 327-72- 9-B
K6RM 46,920- 345-68-19-A
K6VA 40,288- 295-67-17-A
W6IO 23,652- 162-73-14-A
K6BTM 20,600- 206-50-10-A
N6GW 20,196- 198-51- 6-A
W6H 18,144- 169-50-11-A
W6KZJ 18,126- 171-53- 9-B
AG6D 17,940- 195-46-12-B
W6EPV 9890- 115-43- 4-B
W6S 6322- 68-62- 2-B
K6MO 3876- 57-34- 2-A
N6KT 3658- 59-31- 2-A
W6ST 3100- 50-31- 2-A
W6OCV 13,944- 28-24- 2-A
W6AHD 748- 22-17-12-A
W6YX(N100,N3ER,N7MH,
W6ITV,oprs) 103,156- 697-74-24-B
N6AUV(+N6CL,G5CMX) 74,296- 502-74-24-B
KD6AZ(+NET) 53,728- 368-73-22-B

Pacific

KH6CP 12,100- 121-50-17-A
N6HA 11,424- 119-48-13-A
AH6BK(+K7TI) 106,500- 71-73-23-B
KH6IFY(KH6KR,W6H5 AML AMM,
AMO AMS AMT,oprs) 448- 16-14-11-A

7

Arizona

K6LL/7 166,148-1138-73-24-B
W7ZMD 99,604- 673-74-22-A
W7BXP 75,332- 509-74-22-A
N6IA/7 68,552- 504-68-23-A
W7ANXL 55,610- 415-67-12-B
KA7FRS 54,672- 408-67-22-B

Idaho

K7QD 109,620- 783-70-21-A
W7C 102,136- 753-68-23-A
N7AWE 71,264- 524-68-18-A
K7VJ 39,060- 315-62-10-A
WB7TJ 30,680- 260-59-10-A
W7WR 30,096- 228-66-20-A

Montana

W7JYW 112,056- 812-69-23-B
K7CPC 83,376- 620-68-22-B
K9PP/7 80,738- 553-73-24-A
K7QA(+KA7D) 110,996- 920-71-24-B
Nevada 130,640- 920-71-24-B

Nevada

W7ANIN(N6SF,opr) 135,920-1068-70-24-B
AD7K 135,980- 930-73-24-A
W7A 133,736- 916-73-24-A
W7UEC 85,358- 637-67-22-A

Oregon

W7NI 158,064-1068-74-24-B
W7WHO 108,346- 763-71-23-A
W7YQA 73,840- 520-71-19-A
K7KJM 73,416- 532-69-23-A
W7TC 64,860- 566-23-12-A
W7C 64,894- 457-71-19-A
W7TWL 30,150- 225-67-21-A
WB7UJ 26,904- 228-59-20-B
A17 15,600- 150-52-14-A
K7DVB 12,696- 138-46-12-A
W7LV 10,164- 121-42-14-A
N7DG 1700- 34-25- 3-B
K7WPC(+WB7PQJ) 11,366- 807-69-24-B
W7WBE(KB7JW,WA7S LGN,
OEM) 33,840- 282-60-19-A

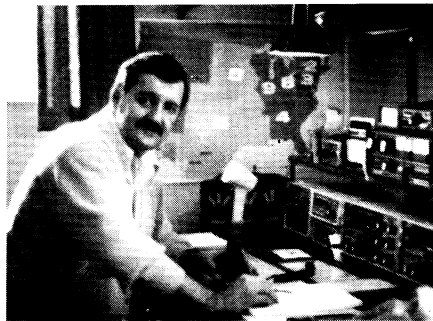
Utah

K3FR/7 67,048- 493-68-19-A
K7EB 65,646- 521-63-16-A
K7EA 60,520- 445-68-20-A
K6EIL/7 48,144- 354-68-18-A

Washington

W7WA 1

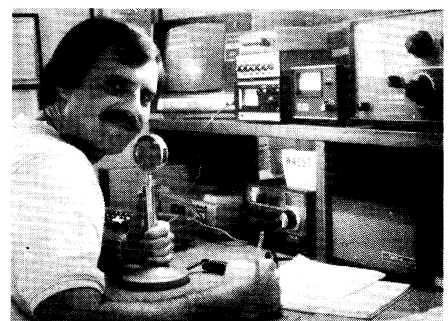
W9CM 1610- 35-23- 2-A WB9UYT 748- 22-17-10-A W9YB(KA9CCB,K89KR,KQ4L, N9S EI NB NC,WB9S OJY STD, WB6UAG,opr) 112,180- 790-71-24-B KA9JHZ(+W9PV) 14,840- 140-53-15-B	Colorado K9RF(W9UA,opr) 176,268-1191-74-24-B WBZV 144,102- 987-73-24-B WB9YK 141,620- 966-73-24-B WCOP 131,760- 915-72-24-B ACOS 121,764- 834-73-24-B KQAB 120,274- 847-71-24-A W9EET 118,224- 821-72-24-A K8BN 79,520- 568-70-23-A AD9O 60,800- 475-64-22-A WB9SR 58,890- 453-65-17-A AC9I 28,080- 340-60- 6-A KA0CLS 25,536- 224-57-14-A WB9ME 25,194- 221-57-13-A KA0AIA 19,176- 188-51-16-A WB9SW 8400- 100-42- 5-A KC9D(KA9BRU,KD9V,opr) 112,032- 778-72-24-B	Minnesota N9NO 132,048- 917-72-24-A K9JUL 97,860- 599-70-20-A K9IHG 97,270- 685-71-24-A K9MPH 94,392- 684-69-21-A K9FZG 84,592- 622-68-24-A K9FRP 82,030- 631-65-21-A AA4MD/Q 73,700- 550-67-23-B K9BR 73,698- 519-71-24-A W9PI 58,156- 434-67-13-A K9BM 52,716- 382-69-21-A N9AGW 40,320- 315-64-17-A W9BF 28,320- 236-60- 6-B W9DEL 25,830- 205-63-14-A K9EC 23,040- 180-64-17-A WA9WWW 23,152- 171-56-14-A W9TJV 18,704- 167-56- 7-A K9FJS 12,420- 135-46-18-A WB9ADZ 7,326- 99-37- 9-A K9TMM/Q 5,868- 3-36- 7-A N9ADJ 2,964- 57-26- 4-B N9BG(+K9TG,WA9RBW) 124,520- 875-71-24-B K9TK(+K9S FVF,W9PK,W9GD,opr) 121,502- 868-70-24-B WA9CJU(WA9S ACFTQT, W9GKHW,opr) 53,676- 426-63-18-A K9LTC(K9GRA,KA9S APX DJJ, N9S AKZ BUF,W9UBT,WB9S FBN H9S SNG SNT,TJF,opr) 52,140- 395-66-24-A	W9RNG 63,618- 461-69-14-A WB9VHN 57,800- 425-68-22-A WB9QVH 40,128- 304-66-21-A W9HBB 38,272- 289-54-14-A W9HBB 28,560- 204-70- 6-A W9GSGY 21,112- 182-58-13-A WA9RVK 16,284- 138-59-13-A KA9P 15,162- 133-57- 6-A KA9GRO 15,158- 143-53-16-A WD9ARX 11,844- 126-47-19-A W9KCG 10,600- 106-50- 6-A K89J 8800- 100-44- 5-B W9QCHZ 5110- 73-35-17-A K9VUW(+K9FU) 102,900- 735-70-24-B	Nebraska K7UP/Q 77,840- 556-70-20-A W9KK 8342- 97-43- 8-A AD9H 7448- 98-38- 7-A N9BNY 3306- 57-29- 4-A K9DI(+K9NB) 130,498- 919-71-24-B	North Dakota W9ZZ 41,724- 342-61- 6-A KF9A 41,328- 328-63-13-A K9BW 23,072- 206-56-10-A WB9T 7600- 100-38- 6-A W9HSC(WB9VYX,W9DAJS,opr) 19,030- 173-55-16-A	South Dakota KA9CWS 25,742- 211-61-12-A WB9BWH 12,000- 125-48- 9-A W9PBL 4026- 61-33- 8-A KB9QA(+W9DCKU) 118,128- 856-69-23-B	Canada Maritime - Newfoundland VE1GST(AK4L,opr) 139,870- 985-71-24-B	VE1WN(VE1s AZB BPH BQS BZG BZH,opr) 1804- 41-22- 7-A	Quebec VE2AH 99,400- 700-71-21-B VE2WA 72,254- 539-70-13-A VE2FFE 1656- 36-23- 4-A	Ontario VE3DAP 96,600- 700-69-24-A VE3JTP 77,586- 579-67-24-A VE3JTG 63,618- 461-69-15-A VE3MFT 63,360- 495-64- 8-B VE3ATD 61,512- 466-66-19-B VE3CPU 51,512- 466-66-21-B VE3QST(VE3OT,opr) 56,232- 426-66-13-B VE3LPE 33,408- 288-58-23-A VE3ARL 32,208- 244-66-15-A VE3MKJ 3520- 55-32-16-A VE3BMV 270- 15- 9- 3-A VE3ART(VE3s ABG DAO FBI CAS,opr) 88,946- 717-69-19-B VE3BXI(+VE3HGE) 58,616- 431-68-24-A	Manitoba VE4XI 37,406- 317-59-19-A VE4YF 29,154- 259-70-13-A VE4AIV 11,500- 115-50-14-B	Saskatchewan VE5TT 14,016- 146-48-10-A VE5AAD 11,070- 135-41- 5-A	British Columbia VE7IN 87,100- 650-67-20-B VE7IQ 47,464- 349-68-22-B	Yukon - N.W.T. VY1DD 1764- 42-21- 2-A
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WD8MGQ came in second place for low-power single ops on phone in Michigan.



Glen, K9JGH, beams at his wife (behind the camera), KA0ENZ, after his 707 QSOs and a "clean sweep" showing on phone from Iowa.



W4OST, number two on phone from South Florida.

Phone Scores

U.S.A.

1

Connecticut

K1PR 229,548-1551-74-24-B K1K1(AA2Z,opr) 187,960-1270-74-24-B W1XX 185,592-1254-74-24-B K1TO 182,188-1231-74-24-B K1CC 171,236-1157-74-24-B W1WF 166,500-1125-74-23-B WB1FF 166,032-1153-72-23-B W1AW(W3AZ,opr) 159,984-1111-72-20-B K1RM 155,400-1050-74-18-B W1RM 147,260-995-74-20-B W1AZDW 128,794-907-71-21-B K1EM 126,836-857-74-23-B K1ZZ 123,808-848-73-15-B K1RT 88,330-605-73-13-A KA1EYV 86,620-610-71-21-B KA1CI 83,482-632-67-14-B W1VW 64,232-434-74-10-B KA1BMB 62,376-452-69-19-A KA1BRD 61,628-434-71-10-A W1AYEC 60,836-454-67-15-B K1WJ 54,464-368-74-15-B WB1EYV 51,830-365-71-12-B K1DW 47,784-362-66-10-A K1CE 45,472-392-58- 7-B W1OD 26,268-212-62- 8-B K1YRP 41,076-326-63-10-A KA1DZV 40,832-352-58-24-A W1EHC 40,800-340-60- 7-B KA1JZ 38,032-287-68-21-A AB1U 33,280-269-60- 8-A K1NYK 26,786-227-54- 5-B K1WA 26,786-227-54- 5-B AA1K 26,280-180-73- 8-A N1CC 15,300-150-51- 3-A W1BHI 14,356-97-74- 5-B K1WB 8,619-64-63- 4-A K1DI 8,064-64-63- 4-A WB1CLO 6230- 89-35- 6-A KA1CHO 3200- 64-25- 4-B W1WPR 37,700- 21-52- 8-A WB1FKA 1044- 29-18- 1-A W1AGBA(+K1AS,WA1S DWF HVN) 148,000-1000-74-24-B W1ADI(+K1AR) 87,312- 642-68-24-B A11P(+WB1ASH) 63,784- 469-68-15-B N1ADE(+K1AO,WB1DQ) 41,706- 331-63-14-A
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Eastern Massachusetts

W1UZH 171,680-1160-74-23-B N1AU 147,408-996-74-24-B K1GSK 140,156-947-74-20-B W1EOT 103,368-708-73-12-B W1FM 102,816-714-72-23-B K1CB 94,752-658-72-20-B K1DM 79,108-584-71-21-A KA1CC 56,290-433-65-14-A WB1FF 44,022-319-69-15-A WB1ANT 33,480-279-60- 4-B K1CLV 23,180-190-61-20-A W1TUM 19,722-173-57-13-A W1OLV 17,108-182-47- 6-B W1PLJ 16,200-150-54- 9-B W1SC 15,700-150-54- 9-B K1XM 15,600-156-50- 4-A A1J1 15,198-149-51- 7-B KA1FEG 14,994-153-49- 7-A K1CLPO 14,500-145-50-18-A W1ARFF 13,230-135-49- 7-A K1RB 9672- 93-52-10-A KA1CBY 8432- 98-42- 7-A W1SC 176- 11- 8-1-B W1WMH 24- 4- 3-1-A W1ITQP(+K1BRD,KA1CEI, W1ITLX) 106,560-720-74-19-B

Maine

N1AFC 58,630-451-65-18-A W1ITJX 38,232-324-54-13-A K1CZJ 36,382-324-54-13-A K1PV 34,560-270-64- 9-A K1WJ 28,060-230-61-21-B W1QOT 23,484-206-57- 8-B WB1EE 22,048-208-53- 7-A N1SD(+K1IXZ) 136,710-935-73-21-B KA1AIF(+WB1GLH) 46,020-354-65-20-A

New Hampshire

N1EE 192,548-1301-74-24-B K1LL 172,568-1166-74-24-A KA1A 169,120-1208-70-24-B W1TZW 130,464-906-72-24-B AF1T 49,640-385-68-24-A KA1IM 41,210-317-65-19-A N1OM 37,548-298-62-14-A AC1J 27,956-241-58- 6-A N1BY 18,848-152-62-12-A AG1C 13,600-136-50- 6-A W1UN 6622- 77-43- 2-B W1SLS 415- 26-16- 1-A K1GW 832- 26-16- 1-A

Rhode Island

W1ITF 180,328-1286-74-24-B W1ITQ 146,076-987-74-20-B W1ICVF 60,928-448-68-18-B
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K1VSJ 60,208-424-71-20-A W1RFQ 40,320-315-64-13-B K1HMO 14,016-96-73-10-B KA1JR 10,810-104-47-15-A KA1AWS 8800- 100-44-11-A K1OT 27,700-27-00-2-A W1OP(K1s DT PLX,KA1AWS,N1s AKO B8M,W1GS,WA1RLK, WB1CVV,opr) 96,740-691-70-24-B N1ASR(+KA1s BBY DLL) 91,392-672-68-24-A W1VQY(+W1AYL) 37,454-307-61-21-B	Vermont WB1GQR(WB2JSJ,opr) 158,330-1115-71-22-B K1IK(+AE1K,K1XR,KA1DE, WA1UNN,WB1ELC,WB2FOJ,opr) 208,236-1407-74-24-B H21Q(K2OZV,W2JIT,WA2s CZR KRL IMG,opr) 41,416-334-62-22-A	Western Massachusetts K1BW 124,024-838-74-14-B K1DPB 121,026-877-69-20-B K1KNG 40,040-308-65-4-B N1AKX 12,190-115-53-12-B
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Eastern New York

W2PV(K1AR,opr) 136,504-1598-74-24-B W2YV(N2NT,opr) 212,232-1434-74-24-B K2GL(WA2OYE,opr) 212,232-1434-74-24-B K2AE(WB2CF,opr) 127,658-899-71-19-B WA2STM 107,018-733-73-24-A W2X1 106,288-728-73-24-A WA2YSM(WB2KMY,opr) 91,140-651-70-20-A K2CL 79,662-561-71-22-A W2HBY 61,586-447-69-18-B W2HBY 59,360-424-70-18-A WA2UAA(WA2WV,opr) 47,444-373-64-24-A WB2KHE 31,470-235-67-13-B N2BIN 26,160-218-60-21-B KA2EAY 25,724-218-59- 8-A N2BHP 25,172-203-63- 9-A WA2TJE 24,644-202-61-10-B K2NAV 22,664-197-56- 8-A W2BXT 21,060-162-65-18-A

WB2MJQ 20,292-128-57-10-B K1PTE/2 15,960-140-57- 6-A AE2T 15,276-201-38- 7-A WA2KCL 14,602-149-49- 7-A K2GBH 80- 8- 5-1-A W2ARQ(+W2PKY) 84,826-581-73-24-B WB2ABJ(KA2s DOK EPK FQJ, WA2s GGM GKX,WD2AEE,opr) 61,420-474-65-24-A	New York City - L.I. WB2TCQ 90,170-635-71-22-A K2ALJ 80,798-569-71-19-B N2GC 53,900-385-70-11-A WA2SEL 34,544-254-68- 9-B K2SX 33,664-263-64- 5-B K2EXU 32,612-254-64-10-A N2RQ 29,520-246-60-10-B KA2CKM 26,562-233-57- 9-A WA2ISH 26,078-221-59-10-A WB2EZZ 24,624-216-57- 5-A WA2DZD 19,604-169-58-13-A WA2JCX 19,152-168-57- 9-A WB2PXA 18,600-155-60- 8-B K2HVN 9408-96-49- 5-B K2HYN 6272-56-56- 3-A K2RO 5100-75-34- 7-A WB2RNT 4600-72-32- 2-A WA2LCP 3660-122-30- 2-A K2GT 2784-48-29- 3-B K2CMV 1386-33-21- 1-A WA2ARC 59-30-16- 4-B W2CZ 162- 9- 9-1-A AD2S(+WA2BOT) 158,994-1089-73-23-B WA2JAS(KA2s CLQ CWI ELB HDG HTH ISA KGH KPK, WA2SEL,WB2QEU,opr) 141,192-954-74-24-B N2CAL(+KA2DQ5) 30,550-235-65-20-B
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Northern New Jersey

W2RQ 199,948-1351-74-23-B W1GD/2 84,840-600-70-21-B WB2ARS 74,124-522-71-20-B K2RF 49,714-371-67-12-A AC2U 42,568-313-68- 8-B K2BJG 34,840-260-67-15-B W2GNW 30,492-231-66-18-A W2SHM 30,380-245-62- 7-B W2CQJ 26,100-228-56-15-B W2SQ 24,440-235-52- 3-B WD5DEA/2 20,916-166-63-13-A K2BDM 19,920-167-63-13-A WB2IK 18,998-161-59- 7-A WB2UTO 11,656-124-47- 6-A WA2UPK 8686-101-43- 4-A K2WDM 8200-101-43- 4-A N7TT/2 6708-86-39- 2-B KF2H 5632-88-32- 3-B W2CC 3038-49-31- 6-B WA2AUO 2900-50-29- 5-A K2XR(+K2BM,KC2X,K2OWR,

WB2WIK 162,214-1159-73-24-B K2GG(K2BQ,WA2s MYZ NXW, WB2s KGN RL8,opr) 95,630-655-73-24-B WB2WEX(+KA2CQO) 22,400-200-56-10-B

Southern New Jersey

W2KI 147,314-1009-73-20-B W2YC 118,844-814-73-22-B WB2VFT 114,256-772-74-22-A AB2E 112,128-768-73-20-B W2CQ 99,718-683-73-20-B WA2KOK 95,424-672-71-21-B WA2WJL 64,386-441-73-15-A W2FQY 21,344-262-72-23-B WA2NBM 45,696-357-64-15-B W2PAU 42,560-304-70-11-B N2PHE 37,760-295-64- 9-B N2BFC 30,500-300-55-17-A KA2AGE 29,972-254-59-15-A WB2UGB 22,000-200-55-10-B N2DN 18,676-161-58- 9-A KA2TFS 13,932-129-54-11-A W2BLV 12,978-103-63- 9-B N2FY 10,706-101-53- 6-A WB2ERI 9600-120-40-10-B W2OGZ 8514-99-43- 5-B WB2PHD 7030-95-37- 6-A K2JLA 680-20-17- 1-A WA3RTI/2 588-21-14- 2-A WB2YDF(+N2ATX) 121,978-859-71-24-B K2OSV(+WB2SJA) 63,104-464-68-19-B K2AA(KA2BEW,WA2RCB,opr) 31,560-263-60-12-A
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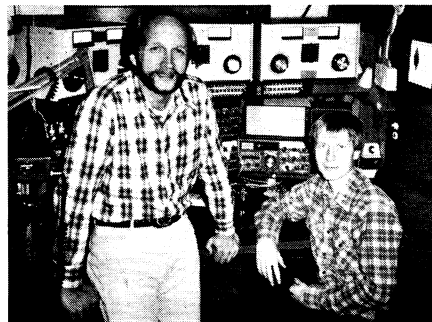
Western New York

N2MF 192,720-1320-73-24-B K2ZZ(WA2LCC,opr) 165,908-1121-74-22-B N2NW 81,192-597-68-18-A KB2DE 72,100-515-70-21-B WB2SW(WA2AWX,opr) 493-71-17-A W2RR(WB2ABD,opr) 61,608-453-68-13-A K2SOT 50,616-342-74-18-B W2IMO 48,280-355-68-12-B K2XU 44,088-334-66-12-B K2UNR 39,176-332-59- 7-B N2CJ 38,076-334-57- 4-B W2YDX 39,044-266-74-15-B WB2YQH 27,200-200-68- 7-A N2ARG 25,472-199-64-10-A WB2GDN 20,730-207-63-17-A KA2EGC 13,932-129-54- 9-B WA2PHA 12,672-144-44- 9-A K2VFF 9984-104-48- 6-A KA2DFM 6800-101-43- 4-A WA2PLR 2960-40-37- 7-A KA2ECT 2340-45-26- 4-A WA2WPI 1804-5-3-12-A W2OW(KF2X,KG2Y,N2s BXC HR,
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WB2FDN,opr	124,704-866-72-23-B	W3IW	5400-	75-36-2-B	K4KDJ(KB3MB,WB4FDB,W4ECK	W6BSY	90,428-	611-74-24-B	Pacific			
W2RCX(WA20DD,WB25 ODC		K3RYA	3080-	70-22-2-A	WB8BKW,opr	K6ZM	73,678-	519-71-22-B				
ODH,N9TE,opr		WA3PCX	384-	16-12-2-A	W4UVA(AD4J,K4ALXV,KB3KJ,	K6P7	71,284-	502-71-10-B	AHBP	26,786-	227-59-5-A	
95,424-672-71-24-B		WA3W	336-	14-12-1-A	KQ4Y,WB2BYW,opr	WB6GPT	69,486-	476-73-24-B	KH6IFY(KH6CP,opr)	26,314-	223-59-13-A	
KA2ATH(+KA2GOH)		KA3BRO(+KA35 AYU DEH)	72,174-	523-69-12-B	110,460-	789-70-21-B	K5GOE/6	26,400-	200-66-10-A	NH6A	630-	21-15-3-A
43,952-328-67-24-A					WB4SGV(+WB4MR1)		W6BOB	20,458-	193-53-5-B			
					62,720-	448-70-7-B	W6NE	15,402-	151-51-3-A			
					AF4O(+Logger)	39,804-	321-62-18-A	4224-	64-33-2-B			



Ed, WØYK, battled his way to a second-place phone finish and a third-place cw finish in the very competitive Colorado Section.



N6BT (r) was tops on cw from the Santa Clara Valley Section, while WA6VEF (l) operated N6BT for a third-place showing on phone in the SCV Section.



W9PNE from Illinois. Brice thinks that the 14 hours he spent in the cw SS are some of the most enjoyable hours he's spent in all his years on the air.

KDDX 46,900 350-67-15-A
 45,880 370-62-7-B
 W8HNI 43,554 357-61-17-A
 KC8P 43,488 302-72-10-A
 W8VPC 42,250 325-65-13-A
 40,870 305-71-16-A
 N8RW 39,424 308-64-11-A
 K8CV 39,128 292-67-15-A
 WA8FSN 39,502 279-69-17-A
 39,100 271-65-3-B
 K8BRK 31,050 225-69-11-A
 KA8EHM 28,304 244-58-13-A
 N8BKQ 26,000 200-65-10-A
 26,000 175-70-20-A
 W8KZM 23,296 208-56-6-B
 K8RO 23,112 214-54-7-B
 K8BIO 21,804 158-69-1-B
 19,712 242-71-11-A
 W8QEI 17,368 167-52-18-A
 N8AFV 16,124 139-58-12-A
 N8BIB 16,100 175-46-9-A
 16,100 141-58-11-A
 W8ETH 10,144 103-49-7-B
 WD8LAQ 13,932 132-93-13-A
 W8EG1 13,000 125-52-6-A
 12,296 116-53-6-A
 W8AQAF 12,272 118-52-4-A
 K8KUW 10,824 123-44-8-B
 K8KM 10,246 109-47-7-A
 10,000 100-50-10-A
 WD8KZX 8,460 94-45-5-A
 W8JUP 8,448 96-44-6-A
 N8AOA 8,000 100-00-6-A
 8,000 100-00-6-A
 K8GL 3,600 50-36-3-B
 W8GV 3,456 54-32-3-A
 K8IFE 260 13-10-3-A
 WD8CRV (+K8BM, K8BHW, K8CBA,
 W8BS VBP 2F8, D8C 173,308-117-74-24-B
 K8CH (+K8VA, K8EK, KA8IKC,
 W8MRD) 97,655-106-67-24-B
 J8J2 (+A18U, A18C, N8BME,
 WD8JQL) 89,624 659-68-18-A
 W8UM (AG8U, K8KA, K8BDX,
 W8BYV, W8B) 83,776 616-68-18-B
 N8ALL (+K8BCL) 59,904 416-72-20-B
 W8AQN (+W8B, YV) 59,640 426-70-21-B
 K8BRV (+K8RF, W8BWM) 57,084 402-71-24-A
 N8BHT (+log98) 53,856 396-68-22-A
 A18F (+WD8PBI) 52,528 392-67-23-A
 WD8PGQ (+K8B, IS) 40,870 305-74-17-A
 W8PLP (KA8S & AJC BYV, W8LAU,
 WD8 KCD NQD, NYW, oprs) 40,870 305-74-17-A
 W8SH (+K8AGB, WD8S DII QXM,
 oprs) 21,774 191-57-10-A
 W8GBR (+K8HHX, KA8CV, W8
 BHTP, WD8S AII C4, GDX
 RUD) 8424 108-39-9-A
 Ohio
 AD8P 159,840-1080-74-24-B
 K8BR 143,708 971-74-20-B
 W849VA 89,248 829-74-20-B
 W8LNO 104,974 719-73-20-B
 W86EZV/B 104,340 705-74-22-A
 KA8D 98,532 714-69-22-A
 K8EED 91,760 620-74-22-A
 AK8W 88,184 604-73-24-B
 W8UHP 84,520 602-68-13-B
 W8BZJ 84,520 602-68-13-B
 K8BLS 75,600 540-70-22-A
 N8BJJ 74,620 533-70-22-A
 W8FN 69,088 508-68-10-B
 69,088 472-68-10-B
 W8AHK 58,926 427-69-21-A
 W8GLO/W 58,016 392-74-24-A
 W8ASDA 52,080 370-70-20-B
 50,652 369-68-10-B
 WD8RNC 46,596 353-66-18-A
 K18D 45,570 349-65-18-A
 44,574 307-69-10-B
 N8TN 42,368 207-69-20-B
 W8NQN 39,468 286-69-13-B
 W8DXT 36,432 276-66-21-B
 W8AAGH 34,932 247-61-16-B
 K88XK 34,888 247-61-16-B
 N8AVK 34,500 250-69-19-B
 K8BR4 32,472 246-66-19-B
 WD8EOL 31,744 248-64-10-A
 K8BLS 26,312 233-61-15-A
 WD8OBX 28,182 231-61-15-A
 W8BSBI 25,200 200-63-9-B
 W8IMF 23,744 215-56-10-B
 21,928 189-58-10-B
 N8AUH 21,460 185-58-10-B
 WD8ECA 20,496 183-56-7-A
 W8OJW 16,800 150-56-12-A
 N8BT 12,748 127-69-10-B
 AJ2X/8 14,300 130-55-7-A
 W8BXCL 13,650 105-65-12-A
 W8ASD 12,984 118-55-15-B
 11,776 117-65-10-B
 W8SDUL 11,074 113-44-10-A
 N8LM 10,700 107-50-5-A
 N8AF 9,900 99-58-10-B
 W8KFF 10,320 120-43-4-B
 N8XX 9588 102-47-4-A
 N8BKX 8600 100-43-17-A
 K8BAE 8500 85-50-5-A
 W8BTFM 8140 110-37-5-A
 WD8KTM 7980 105-38-5-A
 W8BFWX 4080 60-34-5-A
 WD8LP 2280 60-19-6-A
 N8AXA 1472 32-23-3-A
 K8BCD 31-14-1-A
 K8ND (+AD81, WD8ALG) 202,464-1368-74-24-B
 W8BJBM (AAB8, K8US, W8BS DQP
 JMP LSN MQD, oprs) 202,464-1368-74-24-B
 K8MR (+K8S MT NZ) 202,464-1368-74-24-B
 N8FU (+K8DHK, W8ZBHP, W8
 W8BDO (+WA8MAZ) 64,528 436-74-19-B
 W8FW (AA8R, N8S BCN BCX,
 W8MEJ, WD8S 18C) 41,208 303-68-16-A
 K8BRQ (+W8BTRW) 39,620 314-65-23-B
 WD8NMV (+W8DNB) 39,620 314-65-23-B
 W8BQOH (+KA8S JFD JOU,
 W8BNN) 27,938 229-60-20-A
 W8BNH (+KA8S JLD JOU,
 W8NNB) 14,448 129-56-13-A
 West Virginia
 N8II 210,094-1439-73-24-B
 WA8KCY/B 204,530-1382-74-24-B
 K8B5 52,080 372-70-24-B
 N8WV 23,436 217-54-9-A
 W8UT 10,416 109-48-4-A
 10,416 109-48-4-A
 W8BWE 5576 82-34-8-A
 WD8CZA 2812 38-37-4-A
 9
 Illinois
 K9HMB (K9GL, opr) 207,792-1404-74-24-B
 K9BGL 181,448-1226-74-24-B
 K9RF (K9NO, opr) 176,256-1226-74-24-B
 WA8AVL/V 154,213-1074-74-24-B
 K9A 122,988-1006-74-24-B
 N9AGC 122,988 831-74-23-B
 WD9DCL 112,322 791-71-15-A
 W9TM 108,220 773-70-24-B
 K9LUM 94,032 653-72-22-B
 W9EIJ 88,768 608-73-24-A
 N9AEJ 81,736 601-68-19-B
 K9N 70,496 537-70-24-B
 KA9CKQ 72,562 497-73-74-A
 N9AKE 72,270 495-73-24-A
 K9BE 68,182 467-73-24-A
 K9N 64,916 455-71-12-B
 K9BG 63,066 457-73-24-A
 K8KJX/V 62,496 434-72-24-B
 K9N 61,620 416-69-18-B
 K9GH 55,440 396-70-22-B
 K9UIY 50,304 393-64-8-A
 AG9A 46,920 345-68-7-A
 W9VLM 45,694 341-67-8-A
 K9BDF 45,402 329-