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 DXing 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 (WØUA was the other) to make both "Top Ten" lists. FB, Ken.



The old one-two punch from Colorado — WØUA piloted KØRF 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-Kever/Accu-Memory, Also mentioned -CW Sending Machine, MFJ Grandmaster, Autek, Curtis, Morsematic, homebrew.

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 com-– 4-el @ 75 ft, smallest — tribander @ mon -40 ft.

15M: most common — 4-el @ 90 ft also common - 3/5-el @ 75 ft, smallest - tribander @

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

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 noncontesters 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 OSOs 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 - *didn't QSY enough — call sign strategy 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 — *concentate 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/VYI 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 Atlantic Central Dakota Delta **Great Lakes** Hudson Midwest New England Northwestern Pacific Roanoke Rocky Mountain Southeastern Southwestern

High Power W3FA (WA3ZAS) K9HMB (K9GL) W5WMU* K8MJZ

W2PV (K1AR) KBØX K7RI (W7WA) WA7NIN KØRF (WØUA) K7TBT/4 (WB4QBB) N7DD (K7JA)* K5RC (K5ZD) Low Power K3TM N9AGC KØFRP N4TG W8JWN

WØRR (WBØLFY)* K7SS* WA6DIL AA5R* KB4I (K2PO)* AK6U KM5H VE3GD

Multioperator WB3EPC AKØT WA4UCE K8ND KØDG K1IK W7ZR AA6G

WBØCMM N4WW K6HRT K5RX VE5QM

Division Leaders — CW

High Power Division K3UA Atlantic Central Dakota K5GO Delta **Great Lakes** K8NZ Hudson NØSS Midwest KÍAR W7NI New England Northwestern N6RO Pacific Roanoke Rocky Mountain Southeastern Southwestern West Gulf N6TR K5TM (K5ZD) Canadian VE1QST (AK4L)

W9RW AA4MD/Ø W2YV (N2NT) 4PQL KORF (WOUA) N4KG (WN4KKN)

W2TZ* WD9DCL NØNO K4XU W8KRR AC2U KØLUZ W1ZT* K7SS* AD7K* KD8G WØCP KB4I (K2PO) K6WI W5MYA

VE3DAP

Low Power

Multioperator N2ME NØBG WB8JBM KA2ACM KØWA K1VTM AG7M W6BIP N4EA KCØD W4DOC WB6SHL N5AF VE3ART

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

West Gulf

Canadian

^{**}Very important

Tabl	е	2
Top	T	en

Phone N7DD (K7JA) KØRF (WØUA) WA7NIN K5TA N7DF K6MYC (N6IG) K7RI (W7WA) N6RO W5WMU W6XX	309,320-2090-74 284,604-1923-74 282,828-1911-74 279,572-1889-74 268,768-1816-74 251,896-1702-74 251,452-1699-74 250,416-1692-74 249,232-1684-74 243,460-1645-74
CW . KØRF (WØUA) K5TM (K5ZD) N6TR K1AR K6LL/7 K3UA K1KI K5GO N6RO K1TO	176,268-1191-74 167,684-1133-74 166,858-1143-73 166,586-1141-73 164,148-1138-73 164,434-1129-73 164,448-1142-72 164,104-1124-73 161,320-1090-74 159,692-1079-74

Table 3 Top Ten Low Power

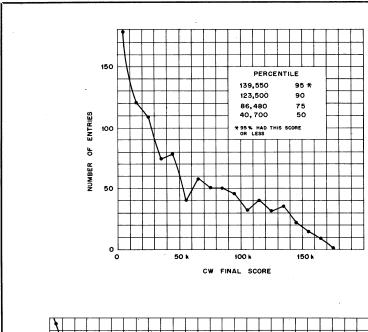
Phone K7SS AA5B WØCP K1LL W7XN AK6U WA6DIL KØAB (WBØIWL) KØAB (K2PO) KM5H	211,788-1431-74 207,612-1422-73 183,816-1242-74 172,568-1166-74 167,092-1129-74 158,508-1071-74 158,064-1068-74 155,744-1097-71 151,548-1038-73 147,168-1008-73
CW W1ZT AD7K K4XU K7SS NØNO W2TZ WØCP W5MYA K7MX (KB7G) KØLUZ	139,392.968-72 135,780.930-73 135,050.925-73 133,792.904-74 132,048.917-72 131,760.915-72 131,760.915-72 128,880.895-72 128,160.890-72 125,856-874-72

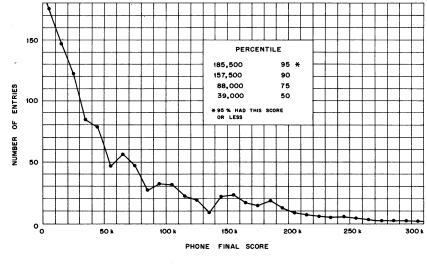


Pnone	
W7ZR	233,692-1579-74
AKØT	218,448-1476-74
N4WW	217,708-1471-74
AA6G	216,086-1460-74
WØSA	206,460-1395-74
CW	
K1VTM	147,744-1026-72
AG7M	143,080-980-73
KØWA	140,400-975-72
WB8JBM	137,232-953-72
K7QA	130,640-920-71

Table 5 Clean Sweeps — Both Modes

K1TO, W1RM, N2NT, K4PJ, K5TA, K5ZD, WA3OVC/5, N5DU, N6RO, K7JA, W6YX*, N6AUV*, W7WA, K7SS, WØUÅ
*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-op 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 arc. 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 Northern California	Score	Entries	Phone Winner	CW Winner
Contest Club Potomac Valley	10,821,317	113	WA7NIN	N6RO
Radio Club	7,207,750	85	N8II	W3LPL
Medium Category			,	·
Texas DX Society	5,346,694	48	K5RC (K5ZD)	K5GA
III-Wind Contesters	3,932,924	47	K9HMB (K9GL)	W9RW
Murphy's Marauders	3,777,951	43	K1PR	K1TO
Yankee Clipper Contest Club		39	W2PV (K1AR)	K1AR
North Texas Contest Club Western Washington	2,649,732	31	KA5Q	N5CR
DX Club	2,372,650	27	K7RI (W7WA)	W7WA
Mad River Radio Club Colorado Contest	2,085,494	18	AD8P	K3LR
Conspiracy	1,711,594	10	KØRF (WØUA)	KØRF (WØUA)
Central Michigan ARC	1,524,596	22	WD8JFE	N8BIK
Wireless Institute of the	4 005 500	40	WADO	14/000
Northeast	1,365,506	19	W2RQ	W2RQ
Frankford Radio Club	1,129,968	15	K3ZA	K3WW (KA3BLP)
Connecticut Wireless Assn. Eastern Iowa DX Assn.	1,109,044	10 13	W1XX	W1RM
Kansas City DX Club	1,044,816 997,956	10	WØEJ KBØX	WØEJ WBØUXI
Murgas ARC (PA)	986,008	20	WB3FAA	KA3A
South Jersey Radio Assn.	916,608	29	WA2KOK	W2PAU
Mississippi Valley DX &	310,000	20	WAZROR	WEI AO
Contest Club	836,534	13	K9BGL	KBØRC
Ft. Wayne Radio Club	707,974	13	K9UWA	K9ÚWA
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 12	K9WTF WB3AAK	K9KR
Reading (PA) RC	250,656	12	WBJAAK	
Local Category				
Willamette Valley (OR)	044.040	-	14/7411	
DX Club	944,346	7	W7NI	
Machine Contest Club (MI)	010 710	9	V014.17	AIOD
South Jersey Contest	910,718	9	K8MJZ	Al8D
Coalition	900,746	8	W2KI	N2CQ
Lincoln (NE) ARC	787,008	6	KØSCM	NZCQ
Arrowhead RAC (MN)	603,766	7	KØIJL	KØIJL
Fraternal Order of Radio	000,700	•	TOPIOL	TOL
Contest Enthusiasts (MN)	593,244	5		
Overlook Mountain	507.005	40	14/4.0071	1440141
(NY) ARC	587,880	10	WA2STM	W2XL
Central Florida DX Assn.	579,386	6	N4SA	N4SA
Buffalo Area DX Club Texas Assn. of	553,142	7	K2ZJ (WA2LCC)	N2CU
Contest Operators	498.404	4		
Western ARA	474,139	8		
	, . 30		•	

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/allocations (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 istening to him call CQ (without an answer) for 10 minutes... Working VEICCC 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		KØBN
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		14014014
IBM Owego (NY) ARC	276,496	6	14/71/160	K2MQY
RC of Tacoma (WA)	269,296	7	W7LKG	wodoov
Ozarks ARC (MO)	254,236	7	WBØOQV	WBØOQV
Mid-Missouri ARC	253,152	4	14/4/54	14/4514
Mitre-Bedford (MA) ARC	243,178	8	W1FM	W1FM
Fox River (IL) RC	237,736	3	NBW	14/5 45/14/14/
Harlan County (KY) ARC	237,556	8	ND4Y	WD4NWW
Ventura County ARC	236,500	8	WA6DJS	KODD
Eastern Michigan ARC	232,756	7	K8DD	K8DD
St. Charles (MO) ARC	232,174	5	KONAA	AGØU
Foothills ARS	225,088	7	K6MA	W6ASH
Southern California	000 500	•		
Contest Group	223,586	3 7	MOINE	V0 A A 7
West Park Radiops (MI) Great South Bay	214,078	′	W8IMF	K8AAZ
	202,946	4	WB2TCQ	
(NY) ARC Natchaug (CT) ARA	197,136	5	KA1CI	
Ramapo Mountain ARC (NJ)	194,538	7	WB2ARS	WB2ARS
Ohio Valley ARA	187,832	3	WBZANO	VVDZANO
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		AI7W
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	144101
COMSAT ARC (MD/VA)	88,550 87,708	5	WDOESY	K4JSI
Central Wisconsin ARA Lake Success (NY) RC	74,844	6 7	WD9ESX WA2ISH	KA9ACC WA2ISH
Cuyahoga Falls (OH) ARC	69,408	5	W8DXT	WAZISH
Lebanon Valley (PA)	09,400	3	WODAT	
Society of RA	65,916	7	WA3NTJ	WB3AKI
Chicago Radio Traffic Assn.	58,026	4	W9HPG	**BOAIN
Syosset (NY) High School	00,020	7		
AR & TV Club	47,912	3	WB2QEU	
Hamfesters (IL) RC	46,786	3	.752420	
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 Phineapples, Bananas and Lemons (WA0PBL). The number of stations who duped me was very discouraging. I kept a running dupe sheet by suffix and idd 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. (NTDF). 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! (K1Kl). 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! (AKIW). 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, I 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 (A1TW). 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 KE41 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 (+KØOO) should have

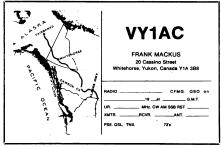
been listed as the Southeastern Division multioperator leader. The Hudson Division phone record still belongs to K2TR ('78), not W2PV; in the Southwestern Division W7KW was the all-time leader (N7DD now), and W6AM the cw leader. The Fresno ARC should have been credited with 79,410 points (5 entries), 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	N1AU 10,530- 117-45-11-A WA1TQP 9200- 100-46- 7-A	W2XL 98,420- 703-70-23-A WA2STM 90,596- 638-71-24-A	Southern New Jersey	AA3B 69,960- 530-66-17-B KA3A 65,320- 460-71-11-B
	W1SR 8190- 91-45- 3-A W1PLJ 7476- 89-42-10-B	WB2CFP /9,764- 578-69-22-B K5NA/2 58,752- 432-68-10-B	W2YC 106,260- 759-70-22-B	KA3BOD 64,008- 508-63-17-A K3TX 53,406- 387-69-16-A
U.S.A.	WA1LKX 5148- 66-39- 1-B	K2GBH 41,990- 323-65- 9-A WA2TJE 38,808- 294-66-19-A	AB2E 104,974- 719-73-22-B KB2FD 97,300- 695-70-24-A W2KI 87,720- 645-68-14-B	W3MA 47,916- 363-66-12-B K3VW 46,540- 358-65- 7-A KA3BKY 45,312- 354-64-23-A
	W1JR 1200- 30-20- 4-A	W2DW 38.412- 291-66- 8-B	W2PAU 74,124- 522-71-19-B N2UU 62,016- 456-68-13-A	WR3CAI 45 292- 338-67-24-A
	WB1BSC 672- 24-14-11-A	KC2L 34,224- 276-62-21-A N2EK 30,120- 251-60-10-A KA2KGG 25,992- 228-57-14-A	KA2BOP 56,682- 423-67-16-B WA2KOK 47,754- 379-63-21-B WB2SUT 41,580- 330-63-23-B	N2EY/3 42,456- 366-58-16-A K3KW 41,406- 309-67-11-A WA3MVP 40,576- 317-64-15-B
1	W1CF(WA1LKX,opr) 600- 25-12- 1-A W1TUM 180- 10- 9- 3-A	KA2KGG 25,992- 228-57-14-A AA2Y 21,600- 200-54- 9-A W2ARQ 20,020- 143-70-23-B	K2HPV 41.470- 319-65-18-A	WA3UQZ 38.896- 374-52-18-A
	W1ZFI 50- 5- 5- 2-A	WA2BXT 17,880- 149-60-21-A W2NRD 17,770- 150-59-18-A	K2OSV 31,842- 261-61-16-B WA2NBM 25,080- 220-57-17-A	W3CNS 37,448- 302-62-10-A WB3FAA 37,332- 306-61-20-A W3ADE 34,060- 262-65-15-A
Connecticut	Maine	K2GSF 11,300- 113-50- 9-B W2PKY 7800- 100-39- 5-A	WB2UVB 22,000- 200-55-13-A WB2PHD 16,016- 154-52-10-A	W3EFY 33,428- 278-61-16-A WB3FED 32.760- 273-60-15-A
K1KI 164,448-1142-72-24-B K1TO 159,692-1079-74-24-B K1PR 151,372-1066-71-24-B	K1PV 72,588- 526-69-18-A W1KX 43,282- 323-67-11-A	KE2O 432- 19-12- 1-A WB2KMY(+KA2ACJ)	W2FGY 14,700- 147-50- 8-A W2FGY 14,112- 126-56-16-B	W3IKI/K3FD onr)
W1ZM(K1ZM,opr) 148,148-1001-74-24-B	WB1GLH 40,066- 299-67-20-A K1SA 12,740- 130-49- 3-B	47,580- 366-65-19-A	N2AWC 330- 15-11- 5-A KA2IYY 286- 13-11- 3-A	24,120- 201-60- 7-B K3VYA 23.850- 225-53-16-A
W1RM 137,344- 928-74-24-B K1XA 135,072- 938-72-24-B	AKIW 10,080- 105-48-19-B W1FS 7752- 76-51- 7-A	New York City - L.I.	KA2CQX 60- 6- 5- 1-A N2ME(+WB2YOF)	KB3JK 18,700- 187-50-12-A K3OO 18,400- 200-46- 4-A
W1WEF 133,882- 917-73-24-B K1WB 131.108- 898-73-24-B		K2SX 124.830- 855-73-21-B	64 610- 497-65-15-R	KB3GL 16,640- 160-52-13-A WB3AKI 16,366- 167-49-16-A W3CEI 13,026- 167-39-13-A
W1XX 124,818- 879-71-24-B W1BIH 124,392- 852-73-24-B	New Hampshire K1AR 166,586-1141-73-24-B	K2AU 99.308- 671-74-19-B	62,176- 464-67-24-A KA2FFS(+KA2BEW,WA2RCB, WB2SJA) 41,540- 335-62-24-A	W3CEI 13,026- 167-39-13-A WB3LNZ 12,690- 135-47-15-A AI3Q 12,240- 120-51- 9-A
AA2Z/1 120,096- 834-72-24-B WA1CCR 110,960- 760-73-23-B	K1AR 166,586-1141-73-24-B K1RX 127,604- 874-73-24-B K1LL 119,428- 818-73-24-A	WB2TCQ(WB2RNT,opr) 89,568- 622-72-24-A KA2CLQ 56,940- 438-65-24-A		WB3IGS 7800- 150-26-16-A KA3EWT 7272- 101-36-24-A
KIRT 106,358- 749-71-19-A WIECH 105,264- 731-72-24-A	AK1A 103,376- 728-71-24-B WA1QCQ 89,460- 639-70-24-A	WB2DHY 43.188- 354-61-24-B	Western New York N2CU 139,536- 969-72-24-B	ΔG3D 5440, 85,32, 2,Δ
K1JD 94,792- 697-68-22-A W1TCJ 94,392- 684-69-21-B W1GNR 83,496- 588-71-22-B	W1HCS 86,688- 602-72-24-A AC1Z 81,736- 601-68-22-A	WB2JAY 27,028- 233-58-10-A WA2ISH 25,048- 202-62-14-A K2QD 23,520- 210-56-13-A	W2TZ 131,760- 915-72-24-A W2RR(WB2ABD.opr)	WB3KRV 3564- 54-33-10-A WA3YON 2900- 50-29-13-A WA3NTJ 2580- 43-30- 4-A
W1GNR 83,496- 588-71-22-B K1RM 80,088- 564-71-15-B K1YRP 76,728- 556-69-22-A	WIUN 29,232- 232-63- 7-B	WB2QEU 21,452- 173-62-10-A KA2CLY 21,420- 210-51-11-A	111,024- 771-72-24-A AE2T 99,280- 730-68-24-B	W3HMR 960- 30-60- 3-B KA3FKL 884- 26-17-11-A
WIGNC 71,154-531-67-12-B WA1YEC 68,206-509-67-19-B	K1GW 20,240- 230-44- 7-A	K2CMV 21,204- 186-57-13-A KA2HTH 18.810- 171-55-13-B	K2ET 79,488- 576-69-20-A N2DE 76,020- 543-70-24-A	WA3LGG 242- 11-11- 5-A KA3DZV 192- 12- 8- 6-A
WA1DWE 67,728- 498-68-18-A K1WJ 61.248- 464-66-15-B	K1TR 4752- 72-33-20-A		K2MQY 61,202- 431-71-19-A W0ROE/2 57,936- 426-68-18-A WA2EYA 57,552- 436-66-19-B	WB3AAL 50- 5- 5- 1-A WB3KAO 18- 3- 3- 1-A
W1KKF 50,274- 399-63-10-B KN1DPS 45,276- 343-66-24-B	KA1BBI 3808- 56-34- 8-A	K2YGM 7008- 73-48- 4-A WA2EYW 4356- 66-33- 5-A N2BZK 2240- 40-28- 6-A	WA2EYA 57,552- 436-66-19-B N3GO/2 54,912- 429-64-24-A N2GU 43,164- 327-66-18-A	KB3KG(+WB3FLK) 39,130- 301-65-22-A W3BN(K3WGR,KA3AXE,KB3ER,
K1DD 37,572- 303-62-13-A AA1K 33,396- 242-69-10-A	Rhode Island	N2BZK 2240- 40-28- 6-A N2RQ 736- 23-16- 6-A W2CZZ 260- 13-10- 1-A	W2EZ 40,698- 323-63-15-A W0VU/2 40,260- 305-66-11-A	W3BN(K3WGR,KA3AXE,KB3ER, WB3CAL,oprs) 32,332- 274-59-16-A W3MN(+WA3YNC)
N1CC 32,400- 270-60- 6-A K1CBR 28,704- 208-69- 9-A AJ1T 28,670- 235-61- 9-A	K1IU 139,576- 956-73-24-B N1RI 73,830- 535-69-20-A	KAZKGH 192- 12- 8- 6-A WZNBI 32- 4- 4- 2-A	K2RN 40,052- 323-62-16-A W2UP 39,060- 310-63- 5-B	W3MN(+WA3YNC) 28,768- 232-62-17-A
AJ1T 28,670- 235-61- 9-A KA1DZV 27,560- 260-53-23-B K1DW 21,012- 206-51- 8-A	WAICVF 57,408- 416-69-18-A KIDS 8400- 100-42- 4-A WIRFQ 6068- 74-41- 5-A	7	K2XU 39,468- 299-66-14-A K2KIR 35,844- 309-58- 4-B	Maryland - D.C.
KINYK 19,140- 174-55- 7-A KAIDVT 16,922- 177-48-17-A	W1RFQ 6068- 74-41- 5-A KA1AWS 660- 22-15- 5-A	Northern New Jersey	W2GJ 29,890- 245-61-11-A W2IMO 29,432- 283-52-17-A	W3LPL 155,052-1062-73-24-B K3EST(WB4SGV,opr)
AB1U 14,798- 151-49- 4-A KA1CLV 11,340- 126-46-18-A	KAIAWS 660- 22-15- 5-A WIOP(KIDT, KAIAWS, NIs AKO BBM, WIGS, WAIS RKL TAQ, WBICVV, oprs) 256-608-66-22 B	W2RQ 158,544-1101-72-24-B W2PA 119,138- 839-71-23-B AE2A 115,220- 823-70-20-B	K2VF 25,134- 213-59-13-A KA2CGV 19,872- 184-54-18-A	149 472-1038-72-24-R
K1UQE 6510- 105-31-11-A N1JW 5950- 85-35- 3-A	80,256- 608-66-22-B WA1VQY(+WA1YDU)	N7TT/2 114,736- 808-71-20-B	WB2YQH 19,800- 165-60- 6-B WA2LEZ 13,300- 133-50- 9-A KA2DFM 11,748- 89-66-17-A	K3SA 134,928- 937-72-24-B
KA1BMB 5548- 73-38- 6-A K1THP 3920- 70-28- 2-A W1OD 1088- 34-16- 1-A	31,842- 261-61-20-A	W2SHM 101.016- 732-69-23-B	KE2K 8960- 112-40- 9-A KB2JY 5472- 72-38-13-A	125,356- 847-74-24-B K3TM 123.398- 869-71-24-A
W10D 1088- 34-16- 1-A K1VTM(+K1s CC JX,WB1AVA) 147,744-1026-72-24-B	Vermont	WA2VZW 95,480- 682-70-20-A W2GD 93,100- 665-70-11-B	WB2SWL 4970- 71-35- 6-A K2UAN 4050- 75-27- 6-A	K3IU 119,564- 842-71-22-B K3RS(WA3ZAS,opr)
WA1GBA(+WA1HYN) 100,110- 705-71-23-B	WB1GQR(WB2JSJ,opr) 99,688- 733-68-22-B WA1GUV 76,964- 542-71-22-A	W2SQ 90,720- 648-70-13-B WA2OVE 90,454- 637-71-15-B K2JT 87,500- 625-70-19-A	KA2HJC 2288- 52-22-13-A K2QR 1968- 41-24- 1-A	118,428- 834-71-24-B K3ZZ 113,540- 811-70-24-B K3HPG 101,952- 708-72-18-B
AJ1G(+WB1CPF) 81,192- 597-68A	KA1BXW 15,322- 163-47-10-A W1KQ 12,264- 146-42- 9-B	WB2FUE 68,586- 497-69-23-A AF2L 66,000- 500-66-14-B	N2DM 770- 35-11- 3-A KA2EGC 342- 19- 9- 8-B WB2MVF 2- 1- 1- 1-A	W3GN 96,506- 661-73-24-B W3UJ 86,100- 615-70-22-B
KA1DBK(+KA1DTT) 2408- 43-28-20-A	•	K9CW/2 50,820- 363-70-15-A K2BLA 47.320- 364-65-15-A	WB2MVF 2- 1- 1- 1-A WA2SDY(KA9EUQ,WB9THY, oprs) 63,512- 467-68-18-A	WA3KCY 84,420-603-70-21-B W3FA 82,786-583-71-20-B
	Western Massachusetts	WB2NGT 48,416- 356-68-15-B WB2ARS 46.970- 385-61-21-B	оргај 63,312- 467-68-18-А	W3AZ 64,600- 475-68-20-B WA3EOQ 64,540- 461-70-23-B
Eastern Massachusetts	K1BW 147,606-1011-73-22-B N1TZ(K1EA,opr) 143.080- 980-73-24-B	WA2JAX 32.004- 254-63-25-A	3	N3GB 60,480- 432-70-12-B W3GRF 52,780- 406-65-10-B
N1EE 118,406- 811-73-24-B K1CB 99,968- 704-71-23-B	W17T 120 202 060 72 24 A	K2RF 27,600- 230-60-13-A W2HR 9240- 105-44- 6-A		WB3CZK(WB3JRU,opr) 46,930-361-65-16-B
W1FM 82,944- 576-72-24-A K1BU(WB1ANT,opr) 79,016- 581-68-16-B	WB1HIH 23,484- 206-57- 7-B K1IJU 20,520- 180-57- 7-A	WZTPJ 8910- 99-45- 7-A WZZEP 7020- 130-27- 5-A WZTI 6480- 108-30A	Delaware	K3AO 46,092- 334-69-24-B N3RL 41,844- 317-66-12-B WA3UPH 40,576- 317-64- 7-B
79,016- 581-68-16-B WA1UZH 67,670- 505-67-15-B WA1OLV 63,756- 462-69-20-B	W1JP 8400- 105-40- 6-A	W2NPT 4368- 91-24-15-A WB3JON/2 4026- 61-33- 8-A	K3HBP 32,004- 254-63- 9-B N8NA/3 17,472- 168-52- 5-A KA3CMR 2700- 50-27- 4-A	K3DI 35,466, 257-69-10-A K3KU 32,634- 259-63- 6-A
WHOLV 63,360- 495-64-12-B NIRC 57,472- 449-64-17-A		K2BJG 3150- 45-35- 8-B WB2OHV 1118- 43-13- 6-A		K1MD/3 29,748- 222-67-21-A K3APM 29,736- 252-59-24-B
AD1C 54,648- 396-69-19-A K1XM 48,512- 379-64-13-A	2	KA2ACM(+WB2KYE) 76.254- 537-71-24-B	Eastern Pennsylvania K3PA 138,450- 975-71-24-B	W3EE 28.500- 250-57-14-A
WA1EOT 40,824- 324-63- 7-B W1KFF 37,674- 299-63-22-A	Eastern New York	K2GQ(N2BQ,KA2EYH,WA2NXW, WB2s KGN RLB.oprs)	K3WW(KA3BLP,opr) 120,680- 862-70-23-B	K2PLF/3 23,970- 235-51- 6-B N3AXA 15-000- 150-50-16-B
WB1CNM 32,520- 271-60-17-B W1AX 24,000- 200-60-24-B	W2YV(N2NT,opr) 158,656-1072-74-24-B	25,842- 219-59-16-B KA2INC(+KA2IPV)	W3RJ 98,736- 726-68-12-B K3ONW 95,900- 685-70-20-B K3WJV 80,266- 599-67-15-B	K3AK 11,440- 103-55- 8-B K3AFY 10,710- 119-45-20-A
WB1DFV 18,020- 170-53- 6-A	158,656-1072-74-24-B	12,236- 133-46-23-A	K3WJV 80,266- 599-67-15-B	N3AM 4816- 86-28- 2-A



Andy, N2NT, spent a little time at W2YV and took home the Hudson Division cw title in the 1980 SS.



If you missed VY1/VE8 for a "clean sweep" on phone, it wasn't VY1AC's fault. Frank worked all callers.



Randy, K5ZD, took some time out from his studies at the University of Texas to operate K5TM to a second place, single-operator finish on cw — then boogied over to K5RC to take top single-op phone honors in the West Gulf Division.

W3FQE 3410- 55-31- 6-B WA3VPL 2912- 56-26- 3-A W3GNQ 1800- 36-25- 2-B	W3YY/4 42,084- 334-63- 9-B W4ZEI 41,912- 338-62-18-A WB4FLT 38,220- 294-65- 9-A	6	7	KA8DFJ/N 1656- 36-23- 9-A N8ALL 240- 12-10- 5-A
WA2VUJ/3 1600- 40-20- 8-A Western Pennsylvania	NB4J 38,052- 302-63-16-A K4JSI 37,310- 287-65-13-B K0DTK/4 35,754- 303-59-11-A	Rest Bay N6RO 161,320-1090-74-24-B K6XV 151,048-1042-72-24-B K6XO 132,860- 910-73-24-B	Arizona K6LL/7 166,148-1138-73-24-B W7ZMD 99,604- 673-74-22-B	KABJYL 8- 2- 2- 2-A W8UM(WB8YVI,AG9V.oprs) 110,016- 764-72-24-B K8JM(+WA8VMS) 74,382- 539-69-20-A
K3UA 164,834-1129-73-24-B K3LR 158,118-1083-73-24-B K3VK 112,000-800-70-23-A ADBJ/3 93,296-686-68-20-B K3VX 81,060-579-70-20-A	N4MO 33,894- 269-63-24-A N4CMJ 26,078- 221-59-13-B K4GKD 22,800- 200-57- 4-A WD4JHY 20,862- 183-57- 8-A	N6NE 129,502- 887-73-24-B K6HIH 115,304- 812-71-24-B N6KB 115.144- 778-74-24-B	W7ZMD 99,604-673-74-22-8 W87PXS 75,332-509-74-22-A N6IA/7 69,552-504-69-23-A WA7NXL 55,610-415-67-19-A KA7FRS 54,672-408-67-22-B	AJ8Z(+A18U,AJ8C,N8BME, WDBJQL) 71,536-526-68-24-8 KC8K(+K8UA,KA8IKC,KE8X, W8MPO) 68,724-498-69-24-A WSSH(WA6ABD,WB8ZFB, WDBDII,DPIS) 60,320-464-65-24-A WDBECT(+KA8KNQ,WDBECU)
W3HDH 67,452- 462-73-12-B WA3NOM 62,040- 470-66-16-A W3GNR 59,780- 427-70-19-A WA3MDY 52,864- 413-64-23-A	AF40 20,160- 160-63-18-A WB4ODK 17,600- 160-55-16-A K4GEL 12,642- 129-49- 8-A KA6HWO/4 8640- 108-40-13-A	K6ZM 96,360-660-73-24-B WB6GPT 66,780-477-70-24-A KB6OH 50,400-360-70-18-A WB6ZEP 47,704-356-67-17-A	Idaho K7QD 109,620- 783-70-21-A W7ZRC 102,136- 751-68-23-A	
AF3B 42,900- 325-66-11-A KA3BMU 41,600- 325-64-20-A AG3H 33,728- 272-62-18-A WB3KAF 15,300- 150-51- 7-B	WB4ZPF 6900 75-46-13-A KA4NES 6888 123-28-15-A W4RX 6408 89-36 3-B WD4GCE 6072 92-33 4-A N4DEK 1218 29-21-5-A	K6CSL 35,216- 284-62-24-A K6PJY 28,768- 232-62- 9-A W6RJ 25,350- 195-65- 7-B N6TU 22,788- 211-54- 5-B WA6DIL 7722- 99-39- 2-A	N7AWE 71,264-524-68-18-A K7JV 39,060-315-62-10-A WB7TJI 30,680-260-59-24-A W7IWR 30,096-228-66-20-A	W8GQN(W8IZS,WA8AXF.oprs) 24,940-215-58-13-A KB8RV(+KA8AYW,WB8WIM) 15,190-155-49-22-A
KA3FMH 11,224- 122-46-14-A W3IW 7800- 100-39-24-A N3BJW 6080- 80-38-14-A W3AS 3780- 70-27- 1-A KA3DDG 2756- 53-26- 9-A	K4DHB 780- 26-15- 1-A N4MM 72- 6- 6- 1-A N4EA(+N6ZO)	Los Angeles N6PN 113,442- 777-73-24-A WA6OYV 101,232- 703-72-24-A N6HC 73,840- 520-71-17-B	Montana W7JYW 112,056- 812-69-23-B K7CPC 83,376- 620-68-22-A	Ohio K8NZ 152,884-1037-74-24-B W8WPC(N9AG,opr) 139,824- 971-72-24-B
KA3FXJ 1482- 39-19-14-A K3CR(KA3GNF,N3BAO, WA3WMF,WB3EKO,WN3VAW, WD8PUH.oprs)	W4POX(AA4ÂT,KA4s BFT BFU MPR,WB4BAB,oprs) 90,168- 663-68-23-B WA4FKK(+W3DJ)		K7CPC 83,376- 620-68-22-A K9PP/7 80,738- 553-73-24-A K7QA(+KA7DIQ,W9NFW) 130.640- 920-71-24-B Nevada	K8ND 133,906- 943-71-24-B W8FN 122,400- 900-68-24-B AC8E(WD8ALG,opr) 119,646- 867-69-23-B
63,232- 494-64-24-B	WA4FKK(+W3DJ)) 61,372- 458-67-24-A K4KDJ(KB3MB,N4DSZ,WA4s IVF RDI,WD4ECK,WD8BKW, oprs) 57,664- 424-68-24-A	NSSU 47,704 356-67-15-B NGQL 41,236-338-61-18-B NGQL 41,236-338-61-18-D AAGTAF 28,652-247-38-10-A AAGRX 9372-71-66-5-A AAGCL(+NGS CCE CYL_WAGJAH, WBGBIM) 68,742-513-67-24-B	WA7NIN(N6SF, opr) 149,520-1068-70-24-B AD7K 135,780-930-73-24-A W7IA 133,736-916-73-24-B	W8KRR 101,232- 703-72-22-A K8EE 101,178- 693-73-23-A K8BL, 87,330- 615-71-20-A W8UPH 85,284- 618-69-24-B
Alabama N4KG(WN4KKN,opr)	West Indies KV4FZ(N6OP,opr) 143,226- 981-73-24-B K9OO/KP4 61,770- 435-71-22-A	Orange	WA7UEC 85,358- 637-67-22-A Oregon	K8AAZ 79,380- 567-70-21-A WB8JSQ 78,242- 551-71-17-B W8ETU 66,576- 456-73-18-A N8LM 66,396- 503-66-16-A W8LNO 63,360- 480-66-11-B
151,966-1041-73-24-B N4QB 99,216-689-72-22-A K4JXS 38,544-292-66-21-A K4GSK 31,500-250-63-12-A WD4PZN 21,090-185-57-16-A	5	K6RR(K7JA,opr) 154,216-1042-74-24-B 114,610- 785-73-24-A W6LEN 66,040- 508-65-18-B K6HRT 51,858- 387-67-19-B WD6FLV 15,660- 145-54-16-A	W7NI 158,064-1068-74-24-B W7WHO 108,346-763-71-23-A W7YAQ 73,840-520-71-19-A K7KJM 73,416-532-69-23-A W7TC 64,944-492-66-23-A	N8BJQ 63,342- 459-69-19-A AA8S 59,296- 436-68-21-B AD8P 52,528- 392-67- 8-B W8VQI 45,234- 359-63-18-B
\(\text{WD4PZN}\) 21\(\text{090}\) 185-57-16-A\(\text{K24S}\) 12\(\text{688}\) 122-52-8-A\(\text{K4ZGB}\) 7200- 100-36- 4-A\(\text{Georgia}\)	Arkansas K5GO 164,104-1124-73-24-B	WD6FLV 15,660- 145-54-16-A WD6CUT 12,288- 128-48-11-A WB6BZW 9200- 100-46- 3-A WB6SHL(+N6DF-Y,WB6s NHV SKE) 83,616- 624-67-24-B	W7CB 64,894- 457-71-14-B W7TWL 30,150- 225-67-21-A WB7UFJ 26,904- 228-59-20-A	W8IM 39,336- 298-66-14-A W8IDM 34,450- 265-65-13-B WA8ADA 33,768- 268-63-20-B WB8ZN 31,222- 233-67-23-A
K4BAI 135,342- 927-73-24-B KB4I(K2PO,opr)	K5GO 164,104-1124-73-24-B KA5EVR 26,280-219-60-12-B KØVGB/5 15,340-130-59-9-4 AD5F 6048-84-36-11-A	N6DNH(+KB6SI,N6s DBF DNI, WD6GSH) 28,784-257-56-24-A KA6CJW(+N6ME,WA6PMX, WD6TOM) 7812-93-42-24-A	W7LT 10,164- 121-42-14-A N7DG 1700- 34-25- 3-B	AA8Z 29,346- 219-67-11-B N8FU 29,312- 229-64- 7-A K8DL 28,800- 200-72-10-A KF8K 27,776- 217-64-24-A AF8C 24,888- 204-61-21-A
K4HAV 84,388- 578-73-23-B N4VZ 79,200- 550-72-16-B	W5WG 49,840- 356-70-23-A K5SA(WA4UIH,WB5TKC) 90,576- 628-72-23-A KA3BER/5(+WD5EAE)	Sacramento Valley W6TPH 127,584- 886-72-24-B W6SX 114,594- 807-71-24-B	WA7WBE(KB7JW,WA7s LGN OEM) 33,840- 282-60-19-A	KA8CQI 24,360- 210-58-15-A KI8D 23,640- 197-60-11-A K8EM 21,472- 176-61-13-A W8EAR 17,808- 159-56-11-A
NA4J 46,860- 355-66-14-B AA4U 29,646- 243-61- 6-A W4SAS 10,080- 112-45-13-A KI4Y 3036- 46-33- 5-A	61,880- 476-65-24-A Mississippi	N6JV 110,376- 756-73-24-B K6SG 101,520- 705-72-24-B A16V 91,254- 681-67-24-A W8KZH/6 80,372- 566-71-24-B W6NKR 79,804- 562-71-20-B	K3FR/7 67,048- 493-68-19-A KB7EB 65,646- 521-63-16-A K7EA 60,520- 445-68-20-A K6EIL/7 48,144- 354-68-18-A	WD8KKF 16,988- 137-62-24-A K8JK 15,370- 145-53- 5-B WD8DTG 13,912- 148-47- 4-A K8HF 11,368- 116-49- 5-B
W4DOC(KA4s DDQ DQF MDF, KR4W,N4s DHH ZM,WH6AEO, oprs) 12,126- 129-47-23-B Kentucky	AE5H 39,040- 305-64-16-A W5VSZ 35,636- 302-59- 7-B New Mexico	W6EGX 44,200- 325-68-15-A K6YK/M 7800- 100-39- 4-A K16O(+K6ZBV) 105,696- 734-72-18-B	Washington W7WA 140,304- 948-74-24-B	N8BTT 8400- 100-42- 8-A WA8MEM 8232- 98-42- 5-A WD8OBX 6528- 96-34- 7-A KA8ABU 5304- 68-39- 8-A
K4FU 104,440- 746-70-24-B WB4FOT 84,456- 612-69-23-A WA9OTD/4 59,362- 443-67-20-A N4TY 57,070- 439-65-18-A	K5TA 155,696-1052-74-24-8 AA5B 123,840-860-72-24-A WA5YTX 105,122-741-71-16-8 WD5JYU 83,212-586-71-24-8 WD5CAW 11,684-127-46-17-A	San Diego	K7SS 133,792- 904-74-23-A K7MX(KB7G,opr) 128,160- 890-72-24-A W7DAZ 120,336- 872-69-23-B K7OEW 111,754- 787-71-21-B	N8BKX 3162- 51-31- 6-A WB8WTS 3068- 59-26- 1-B
KA4IDW 48,230- 371-65-24-A K4AVX 41,328- 328-63-10-A WD4NWW 31,680- 264-60-11-B W4OYI 24,360- 203-60- 8-B	W5JOV 9400- 100-47- 4-A Northern Texas	W7KHN/6 107,494-757-71-20-B W6UQF 105,846-767-69-24-A AA6EE 28,272-228-62-8-A N6KW 27,480-229-60-8-A	K7HBN 97,580- 697-70-24-A K7WA 95,708- 674-71-24-A W7LKG 95,496- 692-69-24-B K7FR 82,552- 607-68-23-A	WB8JBM(K8US,N8DH,WB8S DQP JMP LSN YQJ,oprs) 137,232- 953-72-24-B K8MR(+K8MT,W8KIC) 116,440- 820-71-21-B
KAÁHWG 17,808- 168-53-10-A KS4K W4CN(AC4A,K4TXJ,KA45 DK-X-FJJ IQD JEE JMX,N4XM,oprs) 60,324- 457-66-23-A	N5CR 139,576- 956-73-24-B K5NW 129,210- 885-73-22-B W5MYA 128,800- 895-72-23-A KA5Q 126,432- 878-72-24-B	San Francisco K6LRN 45,080- 322-70-18-A	K7NW 76,568- 563-68-24-A AD7U 50,830- 391-65-19-A W7NG 45,648- 317-72-13-B W2JWF/7 41,844- 317-66-21-A W7BUN 36,772- 317-58-11-B	West Virginia KD8G 110,880- 770-72-24-A W4NW/8 76,680- 540-71-17-A W8UT 64,610- 455-71-18-A
North Carolina N4AA 122,400- 850-72-20-B WA4FFW 113,884- 802-71-24-B	N5JB 122,056- 836-73-24-A N5AU 115,048- 788-73-17-B N5BET 107,018- 733-73-23-A KJSW 67,200- 480-70-21-A K5ME 67,024- 472-71-24-A	AA6DX 26,082-207-63-9-A W6BIP(+AA6GM,WA6DJI) 127,020-870-73-24-B N6DCJ(+K6ANP) 71,712-498-72-24-B	W6VNJ/7 35,074- 247-71-14-A K7UU 30,894- 271-57- 7-B W7BYK 28,520- 230-62-16-A W7GB 24,000- 200-60- 4-B	W8JWX 12,544- 128-49- 6-A KB8FJ 11,616- 121-48- 6-B WD8NHN 4224- 64-33-14-A
AA4NC 108,062- 761-71-24-A N4FD 91,420- 653-70-24-B K4UWH 89,424- 621-72-18-A W6NWS/4 76.464- 531-72-23-A	KB5UL 61,952- 484-64-24-A K5FUV 49,500- 375-66-16-B W5ONL 49,352- 398-62-14-B KA5EMI 44,748- 339-66-21-A	San Joaquin Valley WA6VEF 141.120- 980-72-24-B	W7LÜR 12,852- 126-51-16-A W87RMQ 4420- 65-34- 8-A K78FL 1536- 32-24- 2-A K7RS 1026- 27-19- 7-A W7DRA 390- 15-13- 1-B	9
KW4E 40,320- 320-63-11-A KB4C 26,532- 198-67-15-A AA4NN 23,616- 246-48-7-B N6DR/4 17,442- 171-51-24-B KA4FOJ 16,400- 164-50-14-A	WB5PIP 43,554- 357-61-12-B KE5C 42,504- 322-66-14-K K5HM 34,526- 283-61-12-B K2SCU/5 26,352- 216-61-10-B KA5GFJ 20,020- 182-55-24-A	W6YKS 28,520- 230-62-24-B N6PR 18,928- 169-56-12-A WB6ITM 14.688- 153-48- 5-A	AG7M(+Logger) 143,080- 980-73-24-B N7RV(+K7YST,WA7LVN) 31,200- 260-60-18-B	Illinois W9RW 145,416- 996-73-24-B K9GL 144,832- 992-73-24-B K9BG 133,054- 937-71-24-B
KF41 15,984 108-74 7-A KA4ODX/N 11,026- 149-37-24-A K4CAX 6800- 100-34- 4-B W1FTX/4 6800- 85-40- 5-A	W5JD 16,224- 156-52-10-A KB5AH 17,516- 151-58-19-A KA5HGE/N 2576- 46-28- 7-A WB5VZL(+N5HD)	WAGYAB 3720-60-31-8-A WAGYAB 3720-60-31-8-A KAGEVN 864-27-16-18-A WGYKM(+WAGEZM) 119,140-805-74-22-B	Wyoming K9DR/7 106,074- 747-71-22-B N9CY/7 58,476- 443-66-15-A W7HRM 21,384- 198-54-10-B	K9RS 130,782- 921-71-24-B K9KM 130,214- 917-71-24-B K9RF(K9UIY,opr) 122,056- 836-73-24-B WD9DCL 116,784- 811-72-23-A
W4DGJ 6232- 82-38- 7-B North Florida	82,248- 596-69-24-A KB5RH(+KB5QO) 61,644- 467-66-22-A Oklahoma	Santa Barbara NGTR 166,858-1143-73-24-B WA6VNN 45,440- 355-64-21-A KR6B 43,656- 321-68-20-A	W7TO 2- 1- 1- 1-B Alaska	AG9A 111,600- 775-72-24-A WA9AVL/9 98,264- 692-71-24-B
N4SA 135,342- 927.73.24-B N4WW 69,960- 530-66-12-B W4AT 43,656- 321-68-16-A NE4F 43,248- 318-68-20-8 W2AW/4 20,160- 180-56-8-A WD4UCQ 5390- 77-35-36-34-2-A	N9CP/5 94,650- 678-70-24-A N5GE 77,484- 587-66-24-A K5UV 46,718- 329-71-23-A K5UN 16,632- 154-54-6-A	KA6GKU 7480- 85-44- 9-A Santa Clara Valley N6BT 150,812-1019-74-24-B N6TV 149,504-1024-73-24-B N61G 144,720-1005-72-24-B	KL7IDT 10,320- 120-43- 8-B	N9AEJ 86,688- 602-72-22-A K9JU 84,320- 620-68-22-A WD9DBC 70,886- 529-67-24-A K9BGL 69,224- 509-68-12-B WD9DMV 65,274- 473-69-23-A
South Carolina	NØCP/5 94,650- 678-70-24-A N5GE 77,484- 587-66-24-A K5UV 46,718- 329-71-23-A K5JZN 16,632- 154-54- 6-A N5CII 5986- 73-41-12-A NØIN/5 5550- 75-37- 1-B WB5RLR(WB55 KGP PVL,0prs) N5KW(K45CM)	N6TV 149,504-1024-73-24-B N6IG 144,720-1005-72-24-B N6BV 138,384-961-72-24-B W6XX 134,900-950-71-24-B N6MG 133,792-904-74-24-B N6NF 131,066-923-71-24-B	Michigan K8CC 141,036- 966-73-24-B A18D 108,186- 741-73-24-B K8MJZ 103,460- 739-70-24-B	W9TM 60,456- 458-66-17-A K9PPW 55,900- 430-65-20-A K9LW 45,864- 364-63-11-A K9WA 45,283- 333-68- 8-A
AE4Y 89,060- 610-73-20-A N4ZG 55,342- 413-67-17-8 K4ADI 20,400- 170-60-18-A N4EE 15,840- 176-45-10-B	43,218- 343-63-11-B Southern Texas	WB6DSV 118,552- 812-73-21-B W6MSF (WA6HCI,opr) 118,548- 801-74-23-B	K8MJZ 103,460- 739-70-24-B K8KA 98,690- 695-71-24-A W88MTD 96,740- 691-70-24-B N8BIK 94,920- 678-70-22-B	W9PNE 41.942-313-67-14-A W3JLD/9 41.344-323-64-16-B K9MS 39,556-319-62-17-A N9UN 35,604-258-69-11-B WD9IIX 27,938-229-61-14-A
South Florida N4BP 142,426-1003-71-24-B K4XB 64,736- 476-68-20-B WD4AHZ 57,460- 442-65-18-A	K5TM(K5ZD,opr) 167,684-1133-74-24-B K5GA 153,328-1036-74-24-B N5JJ 147,888-1027-72-24-B	AJ6V 110,618- 779-71-23-B KC6D 102,200- 730-70-24-A W6ASH 93,024- 646-72-20-A K6RU 92,158- 649-71-23-B N6ZB 88,620- 633-70-21-B	K8DD 93,744- 651-72-17-B K8SS 93,002- 637-73-17-B N8EA 83,076- 602-69-16-B WB8YRY 80,784- 594-68-21-B	AK9N 27,376- 236-58-11-A N9TI 27,140- 230-59- 6-B W9REC 23,986- 179-67-17-A W9HPG 21,888- 192-57-10-A
ND4G 14,872- 143-52-15-A ND4G 14,872- 143-52-15-A N4XR 14,336- 112-64- 5-A N4AJD 5148- 66-39- 4-A	146,730-1005-73-24-B K5MA 146,000-1000-73-24-B K5GN 143,080- 980-73-24-B WB5FND(WA3OVC,opr)		WDBDWQ 76,648-572-67-24-A W8VPC 74,800-550-68-19-A K8MW 74,266-523-71-24-A K8LF 72,000-500-72-19-B KA8CMO 70,488-534-66-20-A	W9LNQ 19.886- 163-61- 7-A KA9ACS 15,300- 153-50-16-B AK9Y 14,688- 144-51-16-B K9AR 14,352- 156-46- 5-B N9AGT 11.858- 121-49- 4-A
N4TW 16- 4- 2- 2-A Tennessee K4XU 135,050- 925-73-24-A	N5JJ 147,888-1027-72-24-B KSIY(KA5CHW,opr) KSMA 146,730-1005-73-24-B KSGN 146,000-1000-73-24-B KSGN 143,080-980-73-24-B WB5FND(WA3OVC,opr) 129,056-872-74-24-B N5DU 129,056-872-74-24-B AD5Q 121,026-853-71-23-8 KSLZO 119,088-827-72-24-B KSLZO 119,088-827-72-24-B KSLWA 109,296-759-72-19-8 KSWA 109,296-759-72-19-8 KSWA 95,620-683-70-24-B	WSSZN 79,236. 538.71-22-A K6BR 74,555 525.71-14-B K6CMB 70,226. 505.77-023-A K6CMB 70,226. 505.77-023-A W6CMC 60,288-471-64-12-B W6TST 57,288-434-66-12-B W6TST 70,888-327-72-9-B W6TSQ 47,088-327-72-9-B K6RM 46,929	KA8CMO 70,488-534-66-20-A KA8EHM 60,568-452-67-24-A K8RV 46,968-412-57-16-B N8LA 43,904-343-64-22-A K8SIA 42,640-328-65-10-B K8RDJ 42,024-309-68-18-A	K9VV 8978- 67-67-24-A
K4XU 135,050- 925-73-24-A K4PJ 83,324- 582-74-24-B K4OAQ 82,544- 616-67-19-A WA4EVB 70,380- 510-69-19-A KE4F 67,864- 499-68-24-A WB4MUZ 26,130- 201-65-17-B	X5WA 109/296- 759-72-19-8 WB5WHR 95,620- 683-70-24-B N5WW 91,664- 674-68-16-B K3ZMI/5 89,280- 620-72-24-A K5VWW 83,352- 604-69-22-B	N6YV 40,528- 298-68-15-B W6IO 23,652- 162-73-14-A KB6TM 20,600- 206-50-10-A N6QW 20,196- 198-51- 6-A	NBRW 37/454 307-61-15-B WA8VEB 36,478- 299-61-14-A WA8QCW 36,414- 289-63-17-A NBAXH 36,332- 293-62-13-A WA8OWG 35,960- 310-58-20-A	KB9PB 8712- 99-44- 6-A W9ZEN 7600- 100-38- 5-A KA9EQR 5760- 72-40-19-A W9AGM 3400- 50-34- 3-A WB9VLM 784- 28-14- 4-A
WD4SIG 23,064- 186-62- 7-A KA4LLN 13,888- 124-56-10-A W4OGG 5850- 75-39- 3-B KT4H 1610- 35-23- 6-A	K5VW 83,352- 604-69-22-8 W5JQ 82,740- 591-70-19-B K5GB 80,154- 549-73-18-B N5CDO 79,040- 608-65-24-8 W5SG 76,176- 529-72-21-A	W6FRI 18,144- 162-56-12-A W6KZJ 18,126- 171-53- 9-B AG6D 17,940- 195-46-12-B WD6EPV 9890- 115-43- 4-B N6RZ 9522- 69-69-11-A	WASOWG 35,960- 310-58-20-A WASKU 35,712- 248-72-18-B AK8I 34,524- 274-63-16-A AC8W 27,084- 222-63-11-A N8MK 25,376- 208-61- 9-A	W41ZI/9 160- 10- 8- 1-A WD9BHK(+WD9GGY) 39,650- 305-65-24-A
WA4UCE(KA4S ĀIB JRG MGG NBG,WA4S OIE QZM,WB4IFB, oprs) 29,160- 243-60-24-A KN4F(+KN4Z) 11,220- 110-51-12-B	W5SG 76,176- 529-72-21-A KG5U 71,898- 521-69-24-A K5JS 76,320- 530-72-19-B K5TU 66,368- 488-68-11-A N5RF 65,746- 463-71-24-B N5ATC 54,944- 404-68-22-B	W6PRI 18,144-162-56-12-A W6KZJ 18,126-171-53-9-B AGGD 17,940-195-46-12-B W06EPV 9890-115-43-4-B NGRZ 9522-69-69-11-A K6MO 3876-57-34-2-A N6KT 3658-53-11-2-A WA6DCV 1340-50-321-24-4-A WA6DCV 1340-74-28-24-4-A WA6VINIOONSE	KA8CPA 24,480- 255-48-20-A W8EGI 24,278- 199-61- 9-A	Indiana W9TG 144,004- 973-74-24-B W9RE 136,604- 962-71-24-B K9UWA 124,272- 863-72-24-B
Virginia	N5BA 42,036- 339-62-11-A W5ASP 36,352- 284-64-24-A K5RC 35,836- 289-62- 5-B K5KC 35,136- 288-61- 7-B	WA61TV,oprs) 103,156- 697-74-24-B N6AUV(+N6CCL,G5CMX)	K8CV 17,034- 167-51-12-A W8PVI 17,034- 167-51-12-A K8QWG 15,904- 142-56-17-A	K9FW(N9NO.opr) 119,700- 855-70-24-B N9NS(W9OBF.opr) W9LT 105,700- 755-70-24-B W9LO 88,466- 63-71-24-B
	W5NR 26,412- 213-62-13-B W5HNS 26,040- 217-60- 9-B WA5TOS 19,200- 150-64- 7-B	53,728- 368-73-22-B	W8GBR 14,476- 154-47-14-A	W9XL 86,800- 620-70-18-A WB9VJE 75,168- 522-72-17-B N9CR 70,884- 537-66-21-A
W4ET 115,740-826-70-23-8 W4YF 104,976-729-72-21-8 W4YF 104,976-729-72-21-8 W4DM 88,734-634-69-19-8 K4JST 86,478-609-71-24-A W4ZD 72,336-548-66-17-A N4CD 69,804-554-63-19-8 W4XD 68,244-517-66-18-A	NSBW 18,444-174-53-13-A WD8DKJ/5 12,444-122-51-17-A KB5MJ 8652-103-42-10-A N5DB 2016- 42-24-3-A N5AF(+W85LVL) KSSOR(+K5EJA)	KH6CP 12,100- 121-50-17-A NH6A 11,424- 119-48-13-A AH6BK(+K7TI) 106,500- 750-71-23-B	AGY PY 13,000 13-20-13-A N8AOE 11,712-13-28-13-A N8AOE 11,712-13-28-10-A KABAEE 11,448-159-36-10-A KABJBK/N 8560-107-40-19-A W8KZM 4844-59-38-5-8 WDBLAQ 3654-63-29-13-A	WB9QCP 65,280. 480-68-15-8 KC9C 50,116- 374-67-15-B AJ9C 49,920. 384-65-17-A K9KB 33,500- 250-67-14-B K89H 18,480. 154-60- 8-B W9QLW 17,400. 150-58-7-B K49FKU 14,608. 149-49-17-A KA9CZD 2914- 47-31-17-A
W4XD 68,244-517-66-18-A K4TM 48,714-353-69-11-A KX4V 46,498-347-67-12-A	86,564- 646-67-24-B K5SOR(+K5EJA) 66,920- 478-70-22-A	106,500- 750-71-23-B KH6IFY(KH6KR,WH6s AML AMM AMO AMS AMT,oprs) 448- 16-14-11-A	WD8LAQ 3654- 63-29-13-A KA8IIN 3564- 54-33-12-A KA4DBL/8 3016- 52-29-12-A	A9C 49,920 384-65-17-A K9KB 33,500 250-67-14-B K89H 18,480 154-60 8-B W9QLW 17,400 150-58 7-B KA9FKU 14,608 149-49-17-A KA9CZD 2914 47-31-17-A

W9CM	1610-	35-23- 2-A	Ø	
WB9UYT	748-	22-17-10-A	v	
W9YB(KA9C	CB,KB9K	R.KQ4L.		
N9s El NB N	C,WB9s O	JÝ SŤD,	Colorado	
WB6UAG,op	rs)			
		790-71-24-B	KØRF(WØU	A,opr)
KA9JHZ(+W	9PV)		****	176,268-1
	14,840-	140-53-15-B	WØZV	144,102-
Milananain			WOYK	141,620-
Wisconsin			WOCP ACOS	131,760
W9NA	110,192-	776-71-18-B	KOÁB	121,764- 120,274-
W2WOE/9	94,780-	677-70-23-B	WØETT	118,224-
K9BN	93,684-	633-74-18-B	KØBN	79,520-
K9EYA	86,496-	636-68-23-A	AD Ø O	60,800-
N9KS	80,730-	621-65-19-B	WORSE	58,890-
W9GHY_	77,050-	575-67-20-A	AGOL	28,080-
WD9GUR	72,420-	510-71-23-A	KAUCLS	25,536-
K9GDF	71,808-	544-66-15-A	WOWME	25,194-
W9HE	70,380-	510-69-16-A	KÁØAIA	19.176-
AK9Z	56,718-	411-69-22-A 405-64-21-A	WØDSW	8400-
WB9EJE N9TD	51,840- 40,788-	309-66-18-A	KCOD(KAO	
WB9RRU	32,984-	266-62-16-A	, - (,	112,032-
K9JF	32,640-	255-64- 6-A		•
K9HVL	32,110-	247-65-24-A	lowa	
N9AW	28.188-	243-58- 6-A	WØEJ	130,176-
KA9ACC	25,164- 24,178-	233-54-22-A	KØLUZ	125.856-
K9KR	24,178-	199-61-15-B	KFØH	114.126-
KA9CHP	23,364-	198-59-15-A	WDØFGY	96,986- 68,742-
N9EZ	21,890-	199-55- 6-B	WØWP	68,742-
WB9KPX	20,880-	174-60- 9-A	AE9R	50,652-
K9WTF	17,472-	168-52-13-B	NØBB	41,138-
KA9BJO	17,300-	173-50- 8-A	AKOM	38,682-
KB9NM	16,200- 15,300-	150-54-15-A 150-51-11-A	ADØM WØJTC	36,580- 25,560-
WD9IKO WA9POV	14 502	152-48- 9-A	NOAYM	23,142-
AJ9K	14,592- 11,200-	112-50- 6-A	AIOZ	21,616-
KA9FOX	11,136-	116-48-10-A	พิตัติหบา	21,228-
WB9HRO	10,472-	119-44-12-A	KØCY	21,112-
WB9GZP	9540-	106-45- 8-A	WOYSE	13,950-
WD9GDJ	9348-	123-38-13-A	WDØGVY(KAØELP)
W9YCV	8064-	96-42- 5-A		13,420-
W9BCC	5016-	76-33- 5-A	Kansas	
N9HR	3120-	52-30- 5-A	Ralisas	
WD9ESX	72-	6- 6- 6-A	KBØG	87,636-
KB9S(+KAØ			KFØM	67,068-
	84,840-	606-70-24-B	WØIUB	46,116-
WA9AWO(+	W9WQ,WA	(9UJK)	NØABA	33,000-
	53,520-	446-60-23-A	WØRT	24,960-

WA9CFQ 1558- 41-19- 3-A	WORNG 63,618- 461-69-14-A	VE1WN(V
KAQIKD 1550- 31-25- 4-A	WBØVHN 57,800- 425-68-22-A	BZG BZH
WD0HAG 2- 1-1-1-A	WB90QV 40,128- 304-66-21-A	
KØWA(+ABØS)	WOHBH 38,272- 299-64-14-A	
140,400- 975-72-24-B	KØBM 28,560- 204-70- 6-A	Quebec
Minnesota	WD0GSY 21,112- 182-58-13-A	VE2AH
	WAORVK 16,284- 138-59-13-A	VE2WA
NØNO 132,048- 917-72-24-A	KA P 15,162- 133-57- 6-A	VE2FFE
KØIJL 97,860- 699-70-20-A	KAØGRO 15,158- 143-53-16-A	VEZFFE
KØIHG 97,270- 685-71-24-A	WD0ARX 11,844- 126-47-19-A	
KØMPH 94,392- 684-69-21-A	WOKCG 10,600- 106-50- 6-A	Ontario
KØFZG 84,592- 622-68-24-A	KBØJ 8800- 100-44- 5-B	Sintallo
KOFRP 82,030-631-65-21-A	WDØCHZ 5110- 73-35-17-A	VE3DAP
AA4MD/9 73,700- 550-67-23-B	KØÝUW(+KØFU)	VE3JTP
KØBR 73,698- 519-71-24-A	102,900- 735-70-24-B	VE3JTQ
WØPI 58,156- 434-67-13-A		VE3MFT
KBØM 52,716- 382-69-21-A	Nebraska	VE3ATD
NØÁGW 40,320- 315-64-17-A	K7UP/Ø 77,840- 556-70-20-A	VE3CPU
WOBF 28,320- 236-60- 6-B	WOKK 8342- 97-43- 8-A	VE3QST(
WAPDEL 25,830- 205-63-14-A	ADOH 7448- 98-38- 7-A	
KEOC 23,040- 180-64-17-A	NØBNY 3306- 57-29- 4-A	VE3LPE
WA9WWW 19,152- 171-56-14-A	KØDI(+KØNB)	VE3ARL
WØT1∨ 18,704- 167-56- 7-A	130,498- 919-71-24-B	VE3MKJ
KAOFSJ 12,420- 135-46-18-A	100,430 313 /1 24 8	VE3BMV
WARADX 7326- 99-37- 9-A	North Dakota	VE3ART
K1TMM/0 5976- 83-36- 7-A		GAS.oprs
NØA DJ 2964- 57-26- 4-B	WØZZ 41,724- 342-61- 6-A	VE3BXI(
NØBG(+KØTG,WAØRBW)	KFØA 41.328- 328-63-13-A	
124,250- 875-71-24-B	KC9W 23,072- 206-56-10-A	
KOTK(+KOS FVF WPK,WBOGDB)	WBØUKI/Ø 7600- 100-38- 6-A	Manitoba
121,520- 868-70-24-B	WØHSC(WBØYVX,WDØAJS,oprs)	VE4XI
WAOCJU(WAOS ACF TQT,	19,030- 173-55-16-A	VE4RF
WBØGKH,oprs)	Court Delicate	VE4AIV
53,676- 426-63-18-A	South Dakota	VLTAIV
KOLTC(KOGRA,KAOS APX DJJ,	KA9CWS 25,742- 211-61-12-A	
NØS AKZ BUF, WØUBT, WBØS FBN	WDØBWH 12,000- 125-48- 9-A	Saskatche
HRX SNG SNP TJF, oprs)	WA 9 PBL 4026- 61-33- 8-A	
52,140- 395-66-24-A	KBØQA (+WDØCXU)	VE5TT
Missouri	118.128- 856-69-23-B	VE5AAD
NOSS 136.368- 947-72-24-B	110,020 000 00 20 2	
NOSS 136,368- 947-72-24-B KBORC 121.836- 858-71-21-B		British Co
	Canada	British Co
WBØUXI(KØVBU,opr)		VE7IN
121,360- 820-74-24-A KORWL 113.574- 823-69-24-B		VE7IQ
NØTT 108,720- 755-72-24-A	Maritime - Newfoundland	
AG9U 103,076- 706-73-24-B	VELOCTIONAL CON	Yukon - I
WBØLFY 101,664- 706-72-24-A KØDEQ 83.376- 579-72-18-B	VE1QST(AK4L,opr)	VY1DD
KØDEQ 83,376- 579-72-18-B	139,870- 985-71-24-B	AAIDD

AAA B AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	W9RNG 63,618- 461-69-14 W89VHN 57,800- 425-68-22 W890QV 40,128-304-66-21 W9HBH 38,272-299-61-14 W0HBH 38,272-299-61-14 W0HSY 21,112-182-58-13 WA9RVK 16,224- 138-59-13 KA0P 15,162- 133-57-6 KA0GRO 15,158- 143-53-16 W09ARX 11,844-126-47-19 W9KCG 10,600- 106-50-6 KB9J 8800- 100-44-5 WD9HZ 800- 100-45-0 WD9HZ W0VW(+KPFU) 100- 73-58-17 K9VUW(+KFU) 900- 735-70-24	PACACACACACACACACACACACACACACACACACACAC
à	Nebraska	
	NEDIASKA KYUP/Ø 77,840- 556-70-20 WØKK 8342- 97-43-8 ADØH 7448- 98-38- 7 NØBNY 3306- 57-29- 4 KØDI(+KØNB) 130,498- 919-71-24	- A
A A	North Dakota	
8 8	WØZZ 41,724- 342-61- 6 KFØA 41.328- 328-63-13 KCØW 23,072- 206-56-10 WBØUKI/Ø 7600- 100-38- 6 WØHSC(WBØYVX,WDØAJS,oprs) 19,030- 173-55-16	-/-
4	South Dakota	
Д	KAØCWS WDØBWH WAØPBL KBØQA(+WDØCXU) 118.128- 856-69-23	-4
B	Canada	
A B A B	Maritime - Newfoundland	

VE1WN(VE1 BZG BZH,op	s AZB BP rs) 1804-	H BQS 41-22-	7-A	
Quebec				
VE2AH VE2WA VE2FFE	99,400- 72,240- 1656-	700-71- 516-70- 36-23-	21-B 21-A 4-A	
Ontario				
VE3DAP VE3JTP VE3JTQT VE3MFT VE3ACPU VE3CPU VE3ARL VE3ARL VE3BMV VE3BMV VE3BMV VE3BMV VE3BXI(+VI	56,232- 33,408- 32,208- 3520- 270- 3s ABG E 98,946- E3HGE)	288-58- 244-66- 55-32- 15- 9- DAO FBI	24-A 15-A -B 19-B 21-B 13-B -23-A -15-A -16-A 3-A	
Manitoba				
VE4XI VE4RF VE4AIV	37,406- 29,158- 11,500-	317-59- 239-61- 115-50-	-13-A	
Saskatchewa	n			
VE5TT VE5AAD	14,016- 11,070-	146-48- 135-41-	10-A 5-A	
British Columbia				
VE7IN VE7IQ	87,100- 47,464-	650-67 349-68	-20-B -22-B	
Yukon - N.W	.т.			
VY1DD	1764-	42-21	- 2-A	



WD8MGQ came in second place for low-power single ops on phone in Michigan.



Glen, K \emptyset JGH, beams at his wife (behind the camera), KA \emptyset ENZ, after his 707 QSOs and a "clean sweep" showing on phone from lowa.



W4OST, number two on phone from South Florida.

Phone Scores U.S.A. 1 Connecticut WBİFKU 1044- 29-18- 1-A WA1GBA(+KIAS,WA15 DWF HVN) 148,000-1000-74-24-B WBIADR(+KAIARB) 87,312- 642-68-24-A AIIP(+WBIASH) NIADE(+KAIDTO,WBIDQP) 41,706- 331-63-14-A

Eastern Mas	sachusetts		
WAIUZH NIAUZH NIAUZH NIAUZH KIGSK WAIEOT WIFMB RO KIAICC WBIFPF WBIANT KAICCLV WITOU WISC KAICLV WISC KAIEO WIWMH WIJR	176- 24-	947-74- 708-73- 714-72- 658-72- 559-71- 433-65- 379-60- 190-61- 173-57- 154-51- 156-50- 149-51- 154-51- 154-51- 154-50- 135-49- 135	20-BB220-B221-AAA 223-AB221-AAA 15-BAAABA 118-ABAA 118-ABAA 117-ABAA 11-ABAA 11-ABAA
WAITQP(+ WAITLX)	106,560-	720-74-	19-8
Maine			
N1AFC WA1TJX KA1DZJ K1PV AK1W W1OTQ WB1GEE N1SD(+K11 KA1A1F(+V	38,232- 36,352- 34,560- 28,060- 23,484- 22,048-	451-65- 324-54- 284-64- 270-64- 230-61- 206-57- 208-53- 935-73-	13-A 24-A 9-A 21-B 8-B
, ,	46,020-	354-65-	20-A
New Hamps N1EE K1LL AK1A WA1TZV AFIT KA1IM WBIFNO N10M AC1J N1BEY AG1C W1UN W1HCS K1GW	192,548- 172,558- 169,126- 130,464- 49,640- 41,272- 41,210- 37,548- 27,956- 18,848- 13,6622- 4160- 832-	906-72-	24-8 24-8 11-8 15-A 19-A
Rhode Islan		1286-74-	24-E
WAITFF WAITAQ WAICVF	190,328- 146,076- 60,928-	987-74- 448-68-	20-E 16-E

K1VSJ W1RFQ K1DS K1DS K1DS K1DS K1DT KA1AWS K1DT W1OP(KIS D AKO BBM,W WBICVV,opi N1ASR(+KA WA1VQY(+V Vermont WB1GQR(WI K1IK(+AE1) WA1UNN,WI K2IQ/1/K2O	1GS,WA1 'S) 96,740- 1s BBY D 91,392- VA1YDU) 37,454-	RKL, 691-70-24-B LL) 672-68-24-A 307-61-21-A
WA1UNN,WI	308 236-	32FOJ)
		WA2s CZR
HRL IMG,op	41,416-	334-62-22-A
Western Mass	achusetts	50.60
K18W	124,024-	838-74-14-B
KIDPB KIKNQ	121,026-	838-74-14-B 877-69-20-B 308-65- 4-B
NIADX	12,190-	115-53-12-B
2		
	Vork	
Eastern New		
Eastern New	(,opr) 236,504-	1598-74-24-B
Eastern New W2PV(K1AF W2YV(N2N7	1,opr) 236,504- 1,opr) 212,232-	1598-74-24-B 1434-74-24-B
Eastern New W2PV(K1AF W2YV(N2N7 K2GL(WA2C	(,opr) 236,504- (,opr) 212,232- (VE,opr)	1598-74-24-B 1434-74-24-B 1247-73-23-B
Eastern New W2PV(K1AF W2YV(N2N7 K2GL(WA2C	(,opr) 236,504- (,opr) 212,232- (VE,opr)	1247-73-23-В
Eastern New W2PV(K1AF W2YV(N2N7 K2GL(WA2C	(,opr) 236,504- (,opr) 212,232- (VE,opr)	1247-73-23-В
Eastern New W2PV(K1AF W2YV(N2N7	236,504- 236,504- 7,0pr) 212,232- VE,0pr) 182,062- FP,0pr) 127,658- 107,018- 106,288-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A
Eastern New W2PV(K1AF) W2YV(N2NT) K2GL(WA2C) K2AE(WB2C) WA2STM W2XL WA2YSM(W)	1,opr) 236,504- F,opr) 212,232- VE,opr) 182,062- FP,opr) 127,658- 106,288- B2KMY,019- 91,140-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A
Eastern New W2PV(K1A F W2YV(N2NT K2GL(WA2C K2A E(WB2C WA2STM W2XL WA2YSM(WI	(,opr) 236,504- (,opr) 212,232- ()VE,opr) 182,062- (FP,opr) 127,658- 107,018- 106,288- 107,018- 179,662- 61,586-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 561-71-22-A 447-60-18-B
Eastern New W2PV(K1A F W2YV(N2NT K2GL(WA2C K2A E(WB2C WA2STM W2XL WA2YSM(WI	(,opr) 236,504- (,opr) 212,232- ()VE,opr) 182,062- (FP,opr) 127,658- 107,018- 106,288- 107,018- 179,662- 61,586-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 561-71-22-A 447-60-18-B
Eastern New W2PV(K1A F W2YV(N2NT K2GL(WA2C K2A E(WB2C WA2STM W2XL WA2YSM(WI	(,opr) 236,504- 7,opr) 212,232- VE,opr) 182,062- FP,opr) 127,658- 107,018- 106,288- 106,288- 106,288- 106,288- 106,286- 59,360- A 2W WW,0 47,444- 31,450-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 561-71-22-A 447-60-18-B
Eastern New W2PV(KLAF W2PV(N2NT K2GL(WA2C WA2STM W2XL WA2YSM(W) KC2L WB2THN W2HBY WA2WA4(W WB2KHE K2GSF K2BIN	(,opr) 236,504- 7,opr) 212,232- VE,opr) 182,062- FP,opr) 127,658- 107,018- 106,288- 106,288- 106,288- 106,288- 106,286- 59,360- A 2W WW,0 47,444- 31,450-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 447-69-18-B 424-70-18-A 921-64-24-A 245-65-19-A 235-67-13-B 243-54-19-A
Eastern New W2PV(K1A F W2YV(N2NT) K2GL(WA2C K2A E(WB2C WA2STM W2XL WA2YSM(W) KC2L WB2THN W2HBY WA2UAA(W W2HBY WA2UAA(W K2SFIN KA2EAY W2DW	(,opr) 236,504- 7,opr) 212,232- 90VE,opr) 182,062- FP,opr) 127,658- 106,288- 106,288- 106,288- 106,288- 106,59,360- 79,662- 59,360- 47,444- 31,850- 31,470- 26,1640- 26,1640-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 447-69-18-B 424-70-18-A 907-33-64-24-A 245-65-19-A 245-65-19-A 245-67-13-B 243-64-19-A 243-62-15-B
Eastern New W2PV(K1AF W2YV(N2NT K2GL(WA2C K2AE(WB2C WA2STM W2XL WA2YSM(W) KC2L WB2THN W2HBY WA2UAA(W WB2KHE K2GSF N2BIN K2BIY WA4DARNX N2BHP	(,opr) 236,504- 7,opr) 212,232- 90VE,opr) 182,062- FP,opr) 127,658- 106,288- 106,288- 106,288- 106,288- 106,59,360- 79,662- 59,360- 47,444- 31,850- 31,470- 26,1640- 26,1640-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 447-69-18-B 424-70-18-A 907-33-64-24-A 245-65-19-A 245-65-19-A 245-67-13-B 243-64-19-A 243-62-15-B
Eastern New W2PV(KLA F W2YV(N2NT K2GL (WA2C K2AE (WB2C WA2STM W2XL WA2YSM(W) KC2L WB2THN W2HBY WA2UAA (W. WB2KHE K2GSF K2GSF KA2EAY W2BHD WA2TIF	(2,0pr) 236,504- 7,0pr) 212,232- 7,0pr) 182,062- FP,0pr) 107,018-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A 728-73-24-A 561-70-20-A 561-70-20-A 447-69-18-B 447-69-18-B 424-70-18-A 243-64-19-A 243-64-19-A 243-64-19-A 243-64-19-A 218-59-B-A 203-63-9-B-A 203-63-9-A
Eastern New W2PV(K1AF W2YV(N2NT K2GL(WA2C K2AE(WB2C WA2STM W2XL WA2YSM(W) KC2L WB2THN W2HBY WA2UAA(W WB2KHE K2GSF N2BIN K2BIY WA4DARNX N2BHP	(,opr) 236,504- 7,opr) 212,232- 90VE,opr) 182,062- FP,opr) 127,658- 106,288- 106,288- 106,288- 106,288- 106,59,360- 79,662- 59,360- 47,444- 31,850- 31,470- 26,1640- 26,1640-	1247-73-23-B 899-71-19-B 733-73-24-A 728-73-24-A pr) 651-70-20-A 447-69-18-B 424-70-18-A 907-33-64-24-A 245-65-19-A 245-65-19-A 245-67-13-B 243-64-19-A 243-62-15-B

WB2MJQ	20,292-	128-57-10-B	WB2WIK
K1PTE/2 AF2T	15,960- 15,276-	140-57- 6-A 201-38- 7-B	K2GQ(N: WB2s KG
AE2T WA2KCL K2GBH	14,602-	149-49- 7-A	
K2GBH W2ARQ(+W2	80-	8- 5- 1-A	WB2WEX
WZMRQ(TW	84.826-	581-73-24-B	
WB2ABJ(KA WA2s GGM	25 DOK E	PK FQJ.	Southern
WA2s GGM	3XK,WD2	AEE,oprs)	W2KI
	61,420-	474-65-24-A	W2YC
New York Ci	ty - L.I.		WB2VFT AB2E
WB2TCQ	90,170-	635-71-22-A	N2CQ
K2AU	80.798-	569-71-19-R	WA2KOH WA2WJL
N2GC WA2SEL	53.900-	385-70-11-A	W2FGY
WA2SEL K2SX	34,544- 33,664-	254-68- 9-A 263-64- 5-B	WA2NBN
KAZEXU	32.512-	254-64-10-A	W2PAU
N2RQ	32,512- 29,520- 26,562-	246-60-10-R	N2HF N2BCF
KA2CKM	26,562-	233-57- 9-A 221-59-10-A	KA2AGE
WA2ISH WB2EZG	26,078- 24,624-	216-57- 5-A	WB2UVE
WA2DZD	19.604-	169-58-13-A	N2DN N2DN
WA2JCX	19,604- 19,152-	168-57- 9-A	KA2FFS W2BLV
WB2PXA	18,600-	155-60- 8-B	N2FY
WA2SCI K2HVN	9408-	96-49- 5-B 56-56- 3-A 75-34- 7-A	WB2ER1
K2RO	6272- 5100-	56-56- 3-A 75-34- 7-A 72-32- 2-A	W2OGZ WB2PHD
WB2RNT	4608-	72-32- 2-A	K2JLA
WAZLTP	3660- 2784-	122-30- 4-A	WASRTI
KOCMV	1386-	48-29- 3-B 33-21- 1-A	WB2YDF
KG2T K2CMV WA2ARC W2CZZ	960-	30-16- 4-B	
W2CZZ	162-	9- 9- 1-A	K2OSV(
AD25(+WA2	BOT)	1000 72 02 0	K2AA(K
WAZIASIKA	138,994-	1089-73-23-B WI ELB	
HOG HTH IS	SAKGHK	PK.	Western
WA2SEL,WE	32 QEU, op	rs) 954-74-24-B	
N2CAL(+KA	141,192-	954-74-24-B	N2MF
NZCAL(+KA	30.550-	235-65-20-В	K2ZJ(W
	,		N2NW
Northern Ne	w Jersey		KB2DE
W2RQ	100 0/8-	1351-74-23-В	W2SB(W
WIGD/2	84.840-	606-70-21-B	W2RR(W
WB2ARS	74.124-	522-71-20-B	
K2RF	49,714- 42,568-	371-67-12-A	K2SOT
AC2U K2BJG		313-68- 8-B 260-67-15-B	W2IMO K2XU
W2GNW	30,492- 30,380- 26,100-	231-66-18-A	KZÛNR
W2SHM	30,380-	245-62- 7-B	N2CU
KA2CQJ	26,100-	225-58-15-A 235-52- 3-B 166-63-13-A	W2VDX
W2SQ		166-63-13-A	WB2YQI N2ARG
WD5DEA/2 WA2UDT	20,916- 19,920-	166-60- 5-A	WB2QDI KA2EGO
WB2IKL WB2UTO WA2UPK KB2M N7TT/2	18,998-	161-59- 7-A	KA2EGO
WESTIER	11,656- 8686-	124-47- 6-A 101-43- 4-A	WA2PHA K2VF
KB2M	8460-	94-45- 6-A	KA2DEN
N7TT/2		86-39- 2-B	WA2PLF KA2ECT
KF2H W2CC	5632- 3038-	88-32- 3-A 49-31- 6-B	WA2WPI
W2CC WA2AUO	2900-	50-29- 5-A	WA2LE2
K2XR(+KB2	M,KC2X,I	KZOWR,	W2OW(F

3	WB2s KGN F	RLB,oprs) 95.630- 655-73-24-B
١.	WB2WEX(+	95,630- 655-73-24-B
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3		
	Southern Ne	w Jersey
4	W2KI	147,314-1009-73-20-B
٦.	W2YC	118.844- 814-73-22-B
	WB2VFT	114 256- 772-74-22-A
	AB2E N2CQ	112,128- 768-73-20-B 99,718- 683-73-20-B
Δ.	N2CQ	99,718- 683-73-20-B
в	WA2KOK WA2WJL	95,424- 672-71-21-B
4	W2FGY	95,424- 672-71-21-B 64,386- 441-73-15-A 61,344- 426-72-23-B
Α.	WA2NBM	
В	W2PAU	42,560- 304-70-11-B
d m d d m d m d d	N2HF	37.760- 295-64- 9-B
2	N2BCF	35,400- 300-59-12-A 29,972- 254-59-15-A
Δ.	KA2AGE	29,972- 254-59-15-A
a.	WB2UVB	22,000- 200-55-10-A 18.676- 161-58- 9-B
4	N2DN KA2FFS	18,676- 161-58- 9-B 13,932- 129-54-11-A
Ā B	W2BLV	12,978- 103-63- 9-A
В	N2FY	22,000- 200-55-10-A 18,676- 161-58- 9-B 13,932- 129-54-11-A 12,978- 103-63- 9-A 10,706- 101-53- 6-A
B	WB2ER1	9600- 120-40-10-B
A	W2OGZ	8514- 99-43- 5-B
Ä	WB2PHD	7030- 95-37- 6-A
Δ.	K2JLA	680- 20-17- 1-A 588- 21-14- 2-A
В	WA3RTI/2	588- 21-14- 2-A
A B A B	WB2YDF(+I	121,978- 859-71-24-B
В	K42OSV(+WI	121,976- 659-71-24-B
A	14E03V(1W)	63.104- 464-68-19-B
_	K2AA(KA2	63,104- 464-68-19-B BEW,WA2RCB,oprs)
В		31,560- 263-60-12-A
	Western Nev	v York
В	N2MF	192,720-1320-73-24-B
	K2ZJ(WA2L	.CC.opr)
В		.CC,opr) 165,908-1121-74-22-B
	1421444	
	KB2DE	72,100- 515-70-21-B
в	W2SB(WA2A	70,006- 493-71-17-A
В	W2RR(WB2	A BD. opr)
В		61.608- 453-68-13-A
Ā	K2SOT	50.616- 342-74-18-B
В	W21MO	48,280- 355-68-20-A
В	K2XU	44,088- 334-66-12-B 39,176- 332-59- 7-B
Ă B	K2UNR	44,088- 334-66-12-B 39,176- 332-59- 7-B 38,076- 334-57- 4-B
Ř	N2CU W2VDX	38,076- 334-57- 4-B 34,048- 266-74-15-B
A B	WB2YQH	27.200- 200-68- 7-A
Δ	NZARG	25.472- 199-64-10-A
Ā	WB2QDN	24,840- 207-60-12-A
A	KAZEGC	
Ą	WA2PHA	12,672- 144-44- 9-A
	K2VF KA2DFM	9984- 104-48- 6-A 6890- 65-53-17-A
<u>~</u>	W/A 2DL D	2060 40 27 7 4
Ä	KAZECT WAZWPI	2340- 45-26- 4-A
R	WAZWPI	1804- 41-22- 6-A

WB2FDN,oprs) 124,704- 866-72-23-B	W3IW 5400- 75-36- 2-B K3RYA 3080- 70-22- 2-A	K4KDJ(KB3MB,WB4FDB,WD4ECK WD8BKW.opr)	W6BSY 90,428- 611-74-24-B K6ZM 73.678- 519-71-22-B	Pacific
W2RCX(WA2ODD,WB2s ODC ODH,N9TE,oprs) 95,424- 672-71-24-B KA2ATH(+KA2GOH)	WA3PCX 384- 16-12- 2-A W3AS 336- 14-12- 1-A KA3BRO(+KA3S AYU DEH) 72,174- 523-69-12-B	WD8BKW,opr) 116,144- 854-68-24-B W4UVA(AD4J,KA4LXV,KB3KJ, KQ4Y,WB2BYW,opr) 110,460- 789-70-21-B	K6PJY 71,284- 502-71-10-B WB6GPT 69,496- 476-73-24-A K6CSL 26,796- 231-58-22-A K5GOE/6 26,400- 200-66-10-A	AH6P 26,786- 227-59- 5-A KH6IFY(KH6CP,opr) 26,314- 223-59-13-A NH6A 630- 21-15- 3-A
43,952- 328-67-24-A	4	WB4SGV(+WB4MR1) 62,720- 448-70- 7-B AF4O(+Logger) 39,804- 321-62-18-A	WA6BOB 20,458- 193-53- 5-B N6NE 15,402- 151-51- 3-A W6RJ 4224- 64-33- 2-B	7
S Delaware	Alabama	West Indies KØOO/KP4 98,124- 663-74-24-A	Los Angeles N6HC 172,568-1168-74-19-B AA6RX 99,604- 673-74-15-B	Arizona NZDD(KZIA opr)
K3HBP 70,000- 500-70-10-B N8NA/3 40,320- 315-64- 8-A WA4JJZ/3 18,560- 160-58-15-A	N4DMA 52,272- 396-66-15-A K4ZGB 43,820- 313-70-10-A AA4TG 41,844- 317-66-18-A KA4EWD 26,412- 213-62- 9-A	5	W6CN 82,344- 564-73-23-B KØHGW/6 68,244- 517-66-19-B WB9JFO/6 56,800- 395-72-14-A N6AXQ 29,298- 257-57-19-A	N7DD(K7JA,opr) 309,320-2090-74-24-B K7NO 207,644-1403-74-23-B W7FGT 66,816- 522-64-20-A K1TU/7 37,572- 303-62-12-A
WA4JJZ/3 18,560-160-58-15-A KA3EFL 18,408-156-59-15-A KA3CMR 17,632-152-58-9-A WB2NGT/3 6960-87-40-5-A K2GE/3(K2MS,KA2FQG,WA2NXK	WD5IWP/4 15,196- 131-58-10-A Georgia	Arkansas WB5KED 156,584-1058-74-23-B	N6GL 25,724- 218-59-14-A N9AWJ/6 19,928- 188-53-20-A N6BCY 14,994- 147-51- 9-A V/B6NFO 14,416- 136-53-16-A	W7ZMD 33,288- 228-73-15-A WB7DTX 28,060- 230-61- 8-A WB7PXS 9476- 103-46- 5-A
WBZNGI (K2MS, KA2FQG, WA2NXK WB2s AWM NXK ONA, oprs) 53,328-404-66-20-A Eastern Pennsylvania	KB4I(K2PO,opr) 151,548-1038-73-24-A K4HAV 142,524- 963-74-24-B K4BAI 114,048- 792-72-15-B	WB5KED 156,584-1058-74-23-B K9VGB/5 44,574- 323-69-14-A AD5F 23,870- 217-55-12-A K5BO(+KB5ZT) 33,792- 264-64- 8-B	W6NXB 4158- 63-33-15-A W6NOL 3180- 53-30- 2-A W6PFE 2610- 45-29- 3-A	K7RUF (KA7s FEK FJS, KA8AMC, oprs) 22,600- 226-50- 8-B
K3ZA 188,700-1275-74-24-B K3SME(KA3BLP,oprs) 180,412-1219-74-24-B	WB4VSP 97,200- 675-72-24-B NA4J 71,280- 495-72-22-B KB4DT 35,490- 273-65-15-A NB4X 31,992- 258-62-16-A	Louisiana W5WMU 249,232-1684-74-24-B	KD6CF (+KA6s HKQ KFE,KB6Si, N6CYL,WB6BIM) 69,768- 513-68-22-B Orange	W7ZRC 193,436-1307-74-22-B N7AOS 148,148-1001-74-21-B KB7NP 76,568- 563-68-13-B WAØHJU/7 58,254- 511-57-10-B
N3ATQ 137,480- 482-70-21-B WB3FAA 133,344- 926-72-24-B WA2OMY 105,400- 775-68-16-B WB3EMG 102,524- 722-71-24-B	K4BAM 31,666- 223-71- 8-A AA4GA 14,178- 139-51- 2-A AK4T 7420- 70-53- 7-B KI4Y 918- 27-17- 3-A	K5TS 154,956-1047-74-18-B W5WG 52,998- 363-73-23-A K5LVZ 28,424- 209-68-14-A	WD6BNG 95,904- 666-72-24-A KB6SD 81,322- 557-73-22-A WD6FLV 28,476- 226-63-14-A KA4FDX/6 25,724- 218-59-21-A KA6ISX 12,168- 117-52-16-A	WA9HJU/7 58,254 511-57-10-B K7JV 34,970- 269-65-8-A W7KDB 3600- 45-40-3-A W7KXA 3120- 60-26-3-A W7LQT(+WB7WBZ)
KA3AQF 90,942- 659-69-24-B WB3DJF 84,804- 573-72-17-B KA3A 80,640- 560-72-18-B K3MRG 77,952- 609-64-19-A	W4AQL(AI4B,WA3WCD,WA4s ABY KXY UKS ZBO,WD4s IZT NEX OLP,oprs) 152,884-1033-74-23-B	Mississippi W5VSZ 215,340-1455-74-22-B AE5H 64,380-435-74-14-A W5UCY 12,000-100-60-16-A	WB0AJV 10,246- 109-47- 8-A	178,044-1203-74-22-B Montana
WB3DYQ 71,426-503-71-24-A WB3GZV 69,580-497-70-20-A KA3AYT 68,544-476-72-20-A WB3CIW 66,240-460-72-17-B WB3CAI 65,152-509-64-24-A WB3AAK 63,792-443-72-24-A	K4FU 117,068- 791-74-22-B ND4Y_ 71,994- 507-71-18-B	32,640- 255-64-11-B	111,106- 761-73-23-B WB6NHV(+KA6s DVW DVX FBI, N6s DJW DJX) 108,144- 751-72-23-B WB6SKE(+N6s DED DJX DLR,	W7JYW 158,330-1115-71-20-B W7OIO 12-3-2-2-A W7FO(K9GIZ,KA7BFK,WA7s FLG FOB LSF,WB7s PUE UKK,oprs)
WA3YON 59,924- 422-71-21-A AA3R 55.510- 427-65-12-R	WB4FOT 63,474-447-71-10-B WD4NWW 58,872-446-66-12-B KA4IDW 43,056-299-72-24-A KS4K 28,600-220-65-14-A	New Mexico K5TA 279,572-1889-74-24-B AA5B 207,612-1422-73-24-A N51A 167,170-1145-73-16-B	KA6FBI) 59,092- 446-66-21-B N6DNH(+N6s DBF DNI,W6ESA, WD6GSH) 38,688- 312-62-24-A KA6CJW(+KA6ART,N6DEC,WA6s	139,242-1009-69-23-B KA7ILA(+W9NFW) 119,422- 841-71-21-B
WB3KNJ 53,960- 380-71-20-A W3DZH 45,298- 319-71-16-A WA3YTI 38,350- 295-65-16-A WB3FYT 34,060- 262-65-14-A	WA4RUW 23,718-201-59-11-B WA2VBY/4 17,050- 155-55- 5-A KA4JMZ 4824- 67-36- 7-A KA4BCD 4032- 63-32- 9-A	N5IA 167,170-1145-73-16-B K5XY 12,672- 288-44- 6-A Northern Texas	OQC PMX PMY) 38,280- 290-66-24-A Sacramento Valley	Nevada WA7NIN 282,828-1911-74-24-B W7IA 100,660- 719-70-11-B W7YKN 42,840- 315-68- 9-B
KA3ETS 32,500- 250-65-18-B WB3FED 32,154- 233-69-13-A W3ETB 29,400- 245-60-14-B KA3DIL 28,556- 242-59-23-A	WD4FOS 2160- 40-27- 3-B W4CN(KA4s FJJ IQD JMX, KC4EG,N4XM,oprs) 99,964- 746-67-15-B	K5QY(K1DG,opr) 234,728-1586-74-24-B KA5Q 180,708-1221-74-23-B WD5GSL(WB@TEV,opr)	A16V 198,852-1362-73-24-B KI6O 183,324-1238-74-21-B W6TPH 150,220-1015-74-24-R	WB7VVH 34,980- 265-66-19-B WB7PIJ 20,178- 181-57- 7-A
WB3FYL 25,074 199-63-11-A WB3AVF 24,000 200-60-8-A WB3BVF 22,554 179-63-22-A W3ARK 21,476 182-59-6-A	North Carolina WA4FFW 167,684-1133-74-24-B	157,534-1079-73-24-B WB5VZL 141,284- 958-74-24-A K5NW 125,244- 882-71-16-B W5MVA 111,168- 772-72-11-A	K6SG 140,304- 948-74-24-B W8KZH/6 83,300- 595-70-19-B KB6JM 34,706- 259-67-13-A N6JM 16,714- 137-61- 6-B	Oregon W7NI 212,430-1455-73-24-B W7XN 167,092-1129-74-22-A W7YAQ 102,638-703-73-21-A W7CB 73,260-445-74-13-B
N3AVZ 18,236- 194-47-14-A KB3JK 17,696- 158-56-11-A KA3AXN 15,290- 139-55-10-B W3KOK 13,872- 136-51-17-A	K4KZZ 162,356-1097-74-24-B N4FD 139,416- 942-74-19-B WD4AVY 121,326- 831-73-19-B WA4ZXA 107,456- 736-73-24-B	N5JB 100,196- 677-74-20-A K5IID 95,992- 676-71-18-A	W6SX 476- 17-14- 1-B San Diego	AI7W 67,268- 502-67-21-A W7TWL 58,476- 443-66-24-A
WA3JXW 13,536- 144-47-11-A KA3BTG 13,420- 122-55-13-B K3WUN 13,312- 128-52-18-A K3VW 12,446- 127-49- 3-A	N6DR/4 63,748- 468-68-14-B AA4NC 62,100- 450-69- 9-A KW4E 43,194- 313-69-11-A N4MS 25,326- 201-63-12-B	KJ5W 77,526- 531-73-18-A K5FUV 75,544- 532-71-11-B WD5FLK 75,456- 522-72-12-B K5HT 72,864- 506-72-17-B W5JD 51,456- 384-67-12-B	N6ND 209,272-1414-74-22-B AK6U 158,508-1071-74-21-A K2UVG/6 117,072-813-72-16-A K6GC 61,880-455-68-14-B	W7MLJ 33,712-286-02-19-A W7GUR 34,914-260-69-13-B K7GDN 26,352-216-61-10-A WB7TIU 22,800-190-60-20-A N7AIO 21,400-214-50-15-A WB7UFJ 19,920-165-60-14-A
K3WJV 12,000- 150-40- 4-B KB3FZ 8514- 89-49- 8-B N3A QL 8200- 100-41-6-A WA3LGG 8200- 100-41-11-A	W6NWS/4 17,898- 157-57- 7-A KE41 14,800- 100-74- 8-A Northern Florida	KB5AH 46,480- 332-70-20-A W5QXK 41,464- 292-71-16-A K5BKO 36,608- 286-64-18-A K5HM 20,976- 184-57- 8-B	W7KHN/6 22,800- 200-57- 3-A AA6EE 10,120- 110-46- 5-A KA61EH 5928- 76-39- 3-B K6NA 2888- 38-38- 2-A	WB7UFJ 19,920- 165-60-14-A N7DG 3120- 60-26- 2-B W7ZR(+N4BOS) 233,692-1579-74-24-B
W3MN 6624- 92-36- 6-A KA3CWH 6560- 82-40- 9-A WA3NTJ 5776- 76-38- 4-A WB3EPW 2912- 52-28- 3-A	KATERT (A (IMPAGED)	K2SCU/5 10,810- 115-47- 4-B WD5BC1 9898- 101-49-18-A WA4JZB/5 8944- 104-43- 8-A KC5BA 3782- 63-31- 8-A	K6XT 442- 17-13- 1-A W6KBD 330- 15-11- 2-A San Francisco	WB7USF(+KA7CED,WB7RAQ) 56,544- 456-62-24-A Utah
WB3KAO 1656- 72-23- 4-A WB3CVK 1368- 38-18- 4-A W3EYN 960- 32-15- 4-A KB3KG(+WB3FLK) 81,736- 601-68-22-A	N4SA 151,548-1038-73-16-8 N4SA 151,548-1038-73-16-8 N4SH 146,126-1001-73-21-8 W44HOC 13,100-25-59-9-8 W4VQ 100-25-59-1-18 N4WW(+NE4F-WB45-DRZ-YFF) 1-18 N4WW(+NE4F-WB45-DRZ-YFF) 1-18	N5ZR K5RX(+N5AU) 191,216-1292-74-24-B KB5RH(N5s AYK BET,KB5s QO RH UT,WB5PP,Oprs) 169,460-1145-74-24-A	WB6FCR 119,732- 809-74-21-A AA6DX 105,376- 712-74-22-A WB6NBR 41,976- 318-66-16-A N6QC 39,468- 286-69-22-A	N7DF 268,768-1816-74-24-B N7SM 126,840- 906-70-18-B W7JPG 105,558- 723-73-24-A
W3BN(K3WGR,KA3ARQ,WB3s	South Carolina	RH UT, WB5PIP, oprs) 169, 460-1145-74-24-A W5ONL (multiop) 105, 524-713-74-18-B	KB6GK 17,248- 176-49-11-A W6BIP(+WA6DJI) 157,472-1064-74-22-B K6ANP(+N6DCJ)	K3FR/7 13,872- 136-51- 7-A Washington K7RI(W7WA,opr)
CAC EPW,oprs) 67,320- 510-66-24-A KB3CO(+WB3BCF) 64,752- 456-71-22-A WA3RCA(K3DL5,KA3s AAE BKQ EVB,WA3s FOF OVH YUE,WB3s CBW,CTB HANW	N4DT 72,864-506-72-17-A K4ADI 47,334-343-69-17-A WD4NBE 10,120-110-46-14-A WA4MIY(+KA4JYF) 19,266-169-57-13-A	Oklahoma KM5H 147,168-1008-73-24-A	133,940- 905-74-24-B San Joaquin Valley	251,452-1699-74-24-B K7SS 211,788-1431-74-24-A
CPW CTP HNW, oprs) 5:5.572- 421-66-23-B WB3LNZ(+KB3HE) WB3AZE(+K3FD) WB3AZE(+K3FD) WB3AZE(+K3FD)	Southern Florida WD4MWJ 171,252-1206-71-24-B	AE5Y 59,400- 450-66-20-A K5RY 37,950- 275-69-12-B K5JZN 37,398- 271-69- 6-A K5DEC 29,480- 220-67-14-B WD5BZS 8282- 101-41-8-B	WA6KMW 121,680- 845-72-18-A N6PR 68,862- 499-69-18-A WB6ION 67,470- 519-65- 6-B W6YKM 43,680- 312-70- 7-B WB6ITM 8820- 126-35- 3-A	M37MN 210,240-1440-73-24-B W87BNP 145,562-997-73-23-A WA7UQV 112,924-763-74-21-B W7DAZ 61,744-454-68-9-B W7LKG 59,976-441-68-15-B N7CAE 59,040-492-60-22-A K7NW 52,578-381-69-15-A
WB3AKI(+WB3IGS)	W4JM 41,736- 282-74-15-B ND4G 26,460- 210-63-20-A K1PLR/4 13,932- 129-54- 6-A	WD5BZS 8282- 101-41-8-B KE5M(+WD5HBX) 125,122, 857-73-23-B Southern Texas	K6TG 7802- 83-47-10-A W6VMB 7056- 147-24- 5-A	WB7RFC 40,120- 295-68-15-A WB7PNK 36,840- 307-60-16-A AD7U 31.744- 256-62-13-A
4216- 68-31- 7-A Maryland - D.C.	K8UNP/4 6956- 74-47- 6-A N4AJD 5440- 68-40- 5-A WD4HRX 4096- 64-32- 9-A	K5RC(K5ZD,opr) 241,092-1629-74-24-B	Santa Barbara KB61(N6TR,opr) 238,132-1609-74-22-B WA6VNN 76,032- 528-72-21-A	N7AGC 30,016- 224-67-11-A W7HX 28,000- 250-56- 5-B W87AGZ 27,966- 237-59-16-B
W3FA(WA3ZAS,opr) 197,284-1333-74-24-B N3MG 172,172-1163-74-24-B K3ZJ 170,792-1154-74-24-B	WZHAE/4 3360- 60-28- 3-A Tennessee NA4K 115,632- 803-72-11-B	K5TY(KA5CHW,opr) 221,704-1498-74-24-B N5JJ 208,088-1406-74-24-B N5DU 190,320-1286-74-24-B	WA6NHB 70,448- 476-74-23-B WA6DJS 68,040- 486-70-19-B W6TKF 47,704- 356-67-12-A K6VMN 47,124- 307-66-20-B	WATRDJ 23,552- 184-64-12-B KD7C 19,782- 157-63-17-A K7WA 16,524- 162-51- 6-A W7LUR 15,198- 149-51- 9-A
W3LPL(N2FB,opr) 161,616-1092-74-24-B W3GG(WA3UXU,opr) 157,388-1078-73-24-B	N4TG 69,144- 516-67-14-A W4OGG 57,600- 400-72-12-B	K5KG(K5GN,opr) 179,228-1211-74-24-B	KA6V 39,000- 300-65-15-A WA6IJZ 28,396- 229-62- 7-A KD6LB 28,032- 219-64-14-B WD5JMC/6 16,800- 140-60- 2-A	W7NP 23,744. 244-53-13-A WA7RDJ 23,555-2 184-64-12-B KD7C 19,782-157-63-17-A W7LUR 15,108-149-51-6-A W7LUR 15,108-149-51-6-A W7LUR 15,108-149-51-6-A K7RS 10,836-129-42-11-A K7QLC 10,836-129-42-11-A K7QLC 10,836-129-53-10-A W7LWI 6552-84-39-5-A
147,704- 998-74-22-B K3NA 146,730-1005-73-24-B K3KU 144,004- 973-74-24-B	K4BQ 40,788 - 309-66-14-A K4BQ 40,788 - 309-66-14-A KA4KJJ 29,260 - 209-70-15-A K4PJ 54,316 - 367-74-20-B KR4D 16,758 - 147-57 - 7-A WA4SCE 12,584 - 121-52 - 7-A WA4UCE(KA45 A1B JRG MGG	NSMA 170,940-1155-74-20-B K5MA 170,940-1155-74-20-B WB5FND(WA3OVC,opr) 167,240-1130-74-23-B N5ATC 149,240-11066-70-23-B W5SG 125,652-849-74-20-B K5VWW 118,696-802-74-21-B	W6QBY 1628- 37-22- 2-B KA6L(+WD6CYW) 78,540- 595-66-15-B	WB7RMQ 410- 19-11- 2-A K7LXC(+K7HBN) 182,500-1250-73-24-B
WA3VUQ 132,016- 892-74-21-B	WA4UCE(KA4S AIB JRG MGG NBG,WA4S OIE QZM,oprs) NBG,WA4S OIE QZM,oprs) W4EAL(WB1CPW,NADHA,WA4S HWT ZZU,WB4ZVL,oprs)	K5DX 108.188- 731-74-15-B	Santa Clara Valley K6MYC(N61G,opr) 251,896-1702-74-24-B W6XX 243,460-1645-74-24-B N6BTIMA 6X F F or	KB7G(+KC7I) 173,376-1204-72-24-B K7IR(+KA7s DF Q EXC) 149,616-1039-72-24-B
N31M 123,304- 848-74-22-A N3GB 123,808- 848-73-19-B K3ZZ 119,646- 867-69-24-B KB3EI 114,848- 776-74-24-B WA3UPH 99,864- 684-73-12-B N3RL 91,448- 644-71-13-B W3YOZ 86,430- 645-67-17-B	69,680- 520-67-18-B	KB5FU 105,648- 744-71-18-B KC5BX 102,528- 712-72-24-B K5BZU 101,528- 686-74-17-B N5CDO 100,048- 676-74-24-B	242 276-1637-74-24-B	K7FR(KD7s P Z,KE7A,WB7UPU, oprs) 94,530- 685-69-24-A N7RV(+K7YST,WA7LVN) 92,726- 653-71-24-B
N3RL 91,448-644-71-13-B W3YOZ 86,430-645-67-17-B K2PLF/3 85,400-610-70-11-B W3UJ 66,660-505-66-13-B W3JPT 64,998-471-69-19-B W3ICM 57,794-409-71-22-A	WD4AXM 183,456-1274-72-24-B W3YY/4 182,188-1231-74-24-B W4PRO(N4ABZ,opr)	W5ASP 94,668- 686-69-18-A N5WW 92,058- 687-67-13-B KA5GJO 77,816- 548-71-22-B W5HNS 74,448- 517-72-15-B	W6OKK(WB6DSV,opr) 233,544-1578-74-22-B N6BV 223,480-1510-74-24-B N6MG(WA6PGB,opr) 199,800-1350-74-24-B	Wyoming K9DR/7 166,708-1174-71-18-B NØCY/7 89,830- 691-65-16-A KB7M 32,825- 233-65-18-B
N3RL 91.448. 644-71.13-8 W3YOZ 86.430- 645-6717-8 K2PLF/3 85.400- 610-70-11-8 W3JDT 66.698- 571-66-19-8 W3JCM 67.794- 409-71-22-A W3GNQ 50.370- 365-68-8-8 KB3MF 50.304- 393-64-24-A K3SA 46.920- 345-68-6-8 WA3NQJ 11.7980- 155-58-8-A	Virginia WDAAXM 183,456-1274-72-24-8 W3YV/4 182,188-1231-74-24-8 W4PRO(N4ABZ,opr) KA4EKO 147,898-1013-73-22-8 W4MYA 143,560-970-74-19-8 W4EI 137,048-926-74-12-8 W4EI 137,048-926-74-12-8 W4EI 137,048-926-74-19-A W4FF 081,257-86-74-19-A W4FF 081,257-86-74-19-A W4KFC 52,096-4-78-69-12-8 W4DM 65,964-478-69-12-8 W4ACYR 65,320-460-71-2-8 W4KFC 52,096-407-64-8 W4KFC 52,096-407-64-8 W4KFC 52,096-407-64-8 W4KFC 52,096-407-64-8 WD4GCE 50,268-354-71-13-A W4YE 49,128-356-9-8-8 W44PG 49,128-356-9-8-8	AA5Y 67,536- 469-72-12-B KG5U 66,500- 475-70-24-A N5BA 61,060- 430-71-11-A KA5BYF 60,066- 423-71-23-A	KGHNZ 190,328-1285-74-24-8 KGHNZ 190,328-1285-74-24-8 KGHNE 188,404-1273-74-24-8 KGSEM 181,596-127-74-24-8 WA7LQO/6 157,620-1138-74-24-8 WA7LQO/6 157,620-1138-74-24-8 KGWM 117,216-792-74-24-A NGRZ(WA60CV,opr) 770-73-24-A KGOMB 101,808-707-72-24-A KGCMH 65,808-707-72-24-A KGKLY 47,460-339-70-16-8 KGKLY 47,460-339-70-16-8 KGCD 38,178-303-63-10-A KGEM 31,08-30-30-18-8 KGKU 24,360-203-60-13-8 KGEU 24,360-203-60-13-8 KGEU 24,360-203-60-13-8 KGEU 24,360-203-60-13-8 KGMA 12,236-133-46-4-A KGMA 12,236-133-46-4-A KGMA 12,236-133-46-4-A	NØCY/7 88,830-691-65-16-A KB7M 32,825-253-65-18-B KA7FYB 13,029-152-43-8-A
WA3VPL 17,980-155-58-8-A W3XE 12,896-124-52-5-B WA3YKR 9270-103-45-6-A K3AK 7300-73-50-4-B WA3SLW 7128-81-44-3-A	N4XD 80,256- 608-66-21-B N4DW 71,070- 515-69-10-B W4DM 65,964- 478-69-12-B	KB5KZ 47,610- 345-69-15-B K5TU 35,912- 268-67- 8-A N5ALS 33,930- 261-65-15-A WA5ABR 33,356- 269-62-14-A	N6QW 117,216- 792-74-24-A N6RZ(WA6OCV.opr) 112,420- 770-73-24-A WA6ITV 104,192- 704-74-20-B	KL7IVX 90,280- 610-74-22-B AL7AF 81,906- 561-73-22-B KB8RR/KL7 45,866- 323-71-24-A
WA3SLW 7128- 81-44- 3-A K3WS 6912- 108-32- 4-A W3FQE 6162- 79-39- 6-B W3TUX 308- 14-11- 1-A	WAKCY 65,320- 460-71-23-A KB4NT 63,190- 445-71-14-A W4KFC 52,096- 407-64- 8-B WD4GCE 50,268- 354-71-13-A	WD5HRC 29,264- 248-59-15-B KA5DAC 23,552- 184-64-14-A W5UFA 18,480- 165-56-11-A W5PXZ(WB5SBR.opr)	K6OMB 101,808- 707-72-24-A W6KH 65,808- 457-72-13-B K6KLY 47,460- 339-70-16-B WD6EPV 41,202- 327-63-11-B	11,700- 117-50-12-A
84.728- 623-68-24-B	N4MU 48,024- 348-09-24-A	15,494- 127-61-12-A K3ZMI/5 15,410- 115-67- 9-A WA5IVX 14,994- 147-51- 6-B	KC6D 38,178- 303-63-10-A K6SMH 38,080- 272-70- 8-A KN6K 31,284- 237-66-16-A W6ISQ 26,532- 201-66- 5-B	O Michigan
WB3CZK(+WB3JRU) 54,612- 369-74-17-B WB3LHB(+KA3BWT) 36,704- 296-62-17-B	WB42PF 43,900- 314-70-21-A	N5BPB 11,988- 111-54-8-A WD8DKJ/5 5476- 74-37-19-A N5DB 2600- 52-25-2-A N5AF 1540- 35-22-1-A WB5WHR(+N5IC,WD5CHY) 136,948- 938-73-24-B	N62B 25,200- 210-60-11-A K6RU 24,360- 203-60-13-B KD6AZ 23,680- 185-64-11-B K6MA 12,236- 133-46- 4-A	K8MJZ 161,616-1092-74-24-B AC8Y 152,292-1029-74-19-B K8LF 132,016- 892-74-23-B
Western Pennsylvania	N4CMJ 36,500- 250-73-15-B K4CTY 36,400- 280-65- 5-B AI2C/4 36,156- 262-69-11-B WB4RDV 32,294- 241-67-12-B	136,948- 938-73-24-B N5EA(+WB5SFS 99,280- 680-73-15-B	N6KT 1554- 37-21- 2-0	N8LF 135,016-8 892-74-23-B K8SS 125,356-847-74-16-B WD8DSV 117,504-816-72-24-B AA8U 107,748-738-73-21-B WBJWN 107,448-726-74-24-A WA8OWG 104,340-705-74-19-B WD8JFE 101,470-695-73-17-B
K3LWM 141,408- 982-72-24-B	W4XD 32,294- 241-67-12-B W4XD 30,996- 246-63-11-A		AAOG(TWOSZIN)	WOODOWO 101101 / LU / T L T / L
K3UM 141,408- 982-72-24-B K3UA 97,728- 728-63- 9-B K3VX 70,312- 517-68-17-A WB3KAF 48,72-17-A WB3KAF 48,190- 395-61-13-B WA3MOV 40,710- 295-69-10-A	W4NND 26,230-215-61-10-B N4CD 22,656-192-59-7-B KA4UIM 19,504 184-53-19-A	6	AAGG(+W6SZN) 216,080-1460-74-24-B W6YX(K1JH,N100,N3ER,N7MH, W8ZI,oprs) 173,900-1175-74-24-B N6AUV(+AJ6V)	
K3LWM 141,408 982,72,24-8 K3LVA 97,728 728-8-8 K3LVA 97,728 728-8-7-8-8-7-8-8 K3LVA 97,728 728-8-7-7-8-8-7-8-8-7-8-8-8-8-8-8-8-8-8-	WB4RDV 32,294-216-53-11-A K4JSI 30,996-246-63-11-A K4JSI 30,596-210-63-11-A W4NND 26,596-120-59-10-B KA4IUM 19,504,184-53-19-A WD4KQJ 18,252-169-54-11-A W4WWQ 17,136-119-72-11-B N4RA 132,248-138-48-41-A W4ZEI 13,200-150-44-8-A W4ZEI 13,200-150-44-8-A W4ZEI 13,200-150-44-8-A KC4HX 6480-81-40-8-A KC4HX 6480-81-40-8-A SJT 5041-71-71-8-B		AMG(WSG2216,080-1460-74-24-B M6YX(KIJH,NIOO,NBER,N7MH, W8ZI,oprs) 173,900-1175-74-24-B N6AUV(+AJ6V) 134,828-911-74-24-B AA6T(KA6LAF,N68-BSU HKP RZ, WA6HKP,WB6SHD,oprs) 104,192-704-74-24-A AA6KB(+WB6PO[7]-704-74-24-A A6KB(+WB6PO[7]-704-74-24-B K6YA(WA6LIJ,WB6S AAJ OML) 26,100-225-58-13-A	WABOWG 104.340. 705.74.19.8 WD8MFE 101.470.695.73.17.B WD8MGQ 88.038.603.73.24.A W8MRM(W8RNY,copt) 86.286. 591.73.17.B WB8AYW 81.934.577.71.22.B N8LA 70,128.487.72.24.A AF8D 60,480.420.72.19.B WD8NQE 54.180.387.70.22.B WABMY 51.120.360.71.18.A 473.34.343.69.11.A



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 (I) 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.

AD8X 46,900- 350-67-15-A	N8XX 9588- 102-47- 4-A	N9BBM(+KA9JOF)	lowa	WAØFYA(KØGDD,WBØVPF WDØELL,oprs)47,388- 359-66-19-B
K8DD 45,880- 370-62- 7-B W8HNI 43,554- 357-61-17-A KC8P 43,488- 302-72-10-A	N8BKX 8600- 100-43-17-A KB8AE 8500- 85-50- 5-A WB8TMF 8140- 110-37- 5-A	34,844- 281-62-18-A Indiana	WØEJ 181,596-1227-74-24-B KØLUZ 176,712-1194-74-20-B KFØH 123,662- 847-73-15-B	WD9ELL,oprs)47,388- 359-66-19-8 Nebraska
W8VPC 42,250- 325-65-18-A N8MK 40,870- 305-67-16-A	WD8KTM 7980- 105-38- 7-B WA8WFX 4080- 60-34- 5-A	W9OBF 185,888-1256-74-24-B	KPAL 119,436- 807-74-17-B KAL 119,436- 807-74-17-B KALGH 104.636- 707-74-24-A	KØSCM 112,464- 792-71-17-8 WDØGIL 16,610- 151-54-10-A K7UP/Ø 12,744- 118-54-14-A
N8RW 39,424- 308-64-11-B K8CV 39,128- 292-67-15-A WA8FSN 38,502- 279-69-17-A	WD8PLO 2280- 60-19- 6-A N8AXA 1472- 32-23- 6-A KA8CQI 868- 31-14- 1-A	W9RE 112,332- 759-74-10-B	KBOPR 96,844- 682-71-21-B WDOFGY 79,968- 588-68-24-A	K7ÚP/0 12,744- 118-54-14-A KØDG(+NØS AON BNY,WDØDLN) 198,024-1338-74-24-B
K8CC 37,420- 291-63- 3-B KB8RK 31,050- 225-69-11-A	K8ND(+AD81,WD8ALG) 202,464-1368-74-24-B	N9QX 100,368- 697-72-18-B WD9IPP 96,760- 665-72-19-B N9JG 74,244- 538-69-14-B	KBØV 73,438- 503-73-24-A WØPPF 44,800- 320-70-19-B AKØM 43,216- 296-73-15-B	KØNB(+KØDI) 176.222-1207-73-24-B
KA8EHM 28,304- 244-58-13-A N8BKO 26,000- 200-65-15-A W8JKU 25,200- 175-72-20-B	WB8JBM(AA85,K8US,WB8s DQP JMP LSN MQD,oprs) 201,918-1383-73-24-B	W9JOO 65,408- 448-73-21-A N9RC 64,480- 496-65- 9-B	WDØEIF 33,176- 319-52-16-B KAØD 28,304- 232-61-23-A WDØCMT 27,450- 225-61-18-B	WØRIC(+KØGND,WAØYPY) 162,352-1112-73-24-B
W8KZM 23,296- 208-56- 6-B K8RO 23,112- 214-54- 7-B	K8MR(+K8s MT NZ) 156,528-1087-72-20-B	K9IU(W3EP.obr)	NØCAY 13,250- 125-53-10-A WBØZVX 12,470- 145-43-10-B	North Dakota
KB8IO 21,804- 158-69-12-B N8AWD 19,712- 242-44- 8-B WD8QEI 17,368- 167-52-18-A	N8FU(+K8DHK,WA8ZPP) 81,696-552-74-22-A WB8DOD(+WA8MAZ) 64,528-436-74-19-B	%A9SUS 39,680- 310-64-11-A WA9SUS 31,248- 252-62-23-A K9KB 29,040- 242-60- 7-B	NØAYM 8436- 111-38-15-B KAØELP(+WDØGVY)	KFØA 85,058- 599-71-15-B AKØT(+KCØW,WAØCYW, WBØYIB) 218,448-1476-74-24-B
N8AFV 16,124- 139-58-12-A N8BIB 16,100- 175-46- 9-A N8AOE 15,792- 141-56-11-A	64,528- 436-74-19-B W8FW(AA8R,N8s BCM BCX, WB8MEJ,WD8s AMV LOI,oprs)	W9TE(KB9MO,opr) 28,500- 250-57-10-A KB9H 23,128- 200-59- 8-B WB9HBH 23,326- 183-61- 8-0	WØIO(WA1MKE,WD6DMV,oprs) 27,028- 233-58-20-A WBØOKP(+KAØESL,WØYSE) 23,160- 193-60-14-B	WØŚA(+KCØP,WAØs DCQ SGJ) 206,460-1395-74-24-B WØHSC(NØBHR,SP9DOV,
W8ETH 14,014- 143-49- 7-B WD8LAQ 13,992- 132-53- 9-A	41,208- 303-68-16-B			WD9DTU,WBØs OAJ YVX, WDØAJS.oprs)
W8EGI 13,000- 125-52- 6-A WA8OJR 12,296- 116-53- 6-A WA8QAF 12,272- 118-52- 4-A	40,820- 314-65-23-B WD8NMV(+WD8NNB) 39,620- 283-70-20-A	WB9VJE 9680- 110-44- 4-B WD9EWT 9152- 104-44- 5-A	Kansas KFØM 75,320- 538-70-10-B	29,106- 231-63-11-A South Dakota
K8KUH 10,824- 123-44- 8-B K8KM 10,246- 109-47- 7-A	WB8QOH(+KA8s JFD JOU, WD8NNB) 27,938- 229-61-20-B WD8JAW(+KA8s JJA JKO,	W9QLW 9000- 100-45- 6-B KA9FKU 6364- 86-37- 9-A W9YB(DF4CK,KQ4L,N9s ELNB	KFØM 75,320- 538-70-10-B WAØTKJ 51,356- 347-74-15-A KØPFV 25,830- 205-63- 9-A KØVBU 22,816- 184-62- 5-A	WBØMWJ 123,078- 843-73-20-B WAØARZ 97,128- 684-71-24-A NØBZP 25,760- 230-56-15-A WAØPBL 18,684- 173-54-14-A
K8SIA 10,000- 100-50- 3-A WD8KZX 8460- 94-45- 5-A W8JUP 8448- 96-44- 6-A	WD8NNB) 14,448- 129-56-13-A	W9YB(DF4CK,KQ4L,N9s EI NB NC,WB9s OJY YCH,oprs) 170,200-1150-74-24-B	WBOYJT 21,978- 333-66-21-A WODEL 7068- 93-38- 5-A	NØBZP 25,760-230-56-15-A WAØPBL 18,684-173-54-14-A KBØQA(+WDØCXU)
N8AOA 8000- 100-40- 6-A K8QLM 8000- 100-40- 8-A	West Virginia N8II 210,094-1439-73-24-B	KA9CGA(+KA9FSC) 27,776- 224-62-24-B	KØYBV 4480- 70-32- 8-A KAØDGR 3828- 66-25-10-A	KBØQA (+WDØCXU) 183,224-1238-74-24-B
KG8J 3600- 50-36- 3-B W8GV 3456- 54-32- 3-A K8IFE 260- 13-10- 3-A	K8BS 52,080- 372-70-17-A	Wisconsin N9AW 148,106-1043-71-20-B	N7PM/Ø 2800- 50-28- 3-B ABØS(+KØWA) 233,988-1581-74-24-B	Canada
WD8CRY(+K8AQM,KB8HW,KC8A, WB8s VBP ZFB,WD8s CRY LCE)	W8UT 10,416- 109-48- 4-A KB8FJ 9804- 114-43- 3-B	KA9FOX 85,264- 584-73-24-A W9NA 79,920- 555-72-14-A	255,988-1561-74-24-B Minnesota	Maritime - Newfoundland
173,308-1171-74-24-B KC8K(+K8VA,KE8K,KA8IKC, W8MPD) 97,552-728-67-24-B AJ8Z(+A18U,AJ8C,N8BME,	WB8WEZ 5576- 82-34- 8-A WD8CZA 2812- 38-37- 4-A	WB9VOZ 61,180- 437-70-24-A K9KR 60,828- 411-74-19-B	KØIJL 150,672-1032-73-18-B KØFRP 134,820- 963-70-24-A	VE1AJJ 14,220- 158-45- 6-A WB5UWI/VE1 3060- 51-30- 3-A VE1WN(VE1s AZB BQS,oprs)
		WB7OJV/9 60,776- 428-71-19-A K9EYA 52,932- 402-66-10-A WD9ESX 52,496- 386-68-24-A	KBØC 125,856- 874-72-23-B KØFZG 102,860- 695-74-24-A KØDD 91,612- 619-74- 9-B	10,000- 125-40- 8-A
WD8.IGL) 89,624-659-68-24-B W8UM(AG9U,K8KA,KA8DXR, WB8YVI,WD8DFS,oprs) 83,776-616-68-18-B	Illinois	WA9BZW 51,456- 384-67-20-B N9KS 49,280- 352-70-14-B	ACØW 82,040- 586-70-24-A NØADJ 70,980- 507-70-16-B	Quebec VE2YU_ 47,952- 333-72-15-B
59,904- 416-72-20-B	K9HMB(K9GL,opr)	KA9BJO 46,670- 359-65-11-A KB9S 46,512- 342-68-15-A K9JF 44,220- 330-67- 8-A K9GDF 41,088- 321-64- 7-A	KBØM 57,270- 415-69-16-A WAØMHJ 56,420- 434-65- 7-B KØMPH 53,958- 391-69- 8-A	VE2GBZ 12,614- 119-53-11-A Ontario
KB8RV(+KA8AYW,WB8WIM)	K9BGL 181,448-1226-74-24-B K9RF(K9NO,opr)	K9GDF 41,088- 321-64- 7-A N9AU 40,960- 320-64-10-A N9BMK 35,460- 286-62-19-A N9BDM 30,056- 221-68-17-B	WAQVHX 45,560- 340-67- 8-A WAQWWW 38,870- 299-65-11-A WAQCQG 34,500- 250-69-11-A KEQA 32,208- 264-61-12-A	Ontario VE3GAS 163,228-1118-73-19-B KB6FR/VE3 151,940-1070-71-23-B VE3GD 75,184-508-74-20-A VE3FEA 23,200-200-58-12-A VE3GWM 10,080-105-48-10-B VE3MKJ 7502-121-31-12-A
N8BHT (+loggers) 53,856- 396-68-22-A	176,256-1224-72-24-8 WAQAVL/9 154,216-1042-74-24-8 K9RS 142,852-1006-71-20-8	KB9DZ 29.890- 245-61-22-A	W0BF 29.500- 250-59- 6-B	VE3GD 75,184-508-74-20-A VE3FEA 23,200-200-58-12-A
52 528- 392-67-23-A	N9AGC 122,968- 831-74-23-A WD9DCL 112,322- 791-71-15-A W9TM 108,220- 773-70-23-B	WD91KO 25,560- 213-60-10-A K91AC 25,200- 225-56- 9-A W9HE 21,720- 181-60- 6-A	WBODHS 28,182- 231-61- 8-B NOAGW 25,440- 240-53-14-A KEOC 24,344- 179-68-13-A	VF3JTP 1326- 39-17- 2-A
WD8PGQ(+KB85 15 LP) 40,870- 305-67-24-A W8PLP(KA85 AJC BYY,WA8LAY, WD85 KCD NQG NYW,opro)		WB9ECM 21,168- 168-63-15-A WB9SVN 20,720- 185-56-12-A	KUBH 22.820- 163-70-12-A	VE3BMV 38- 14- 7- 1-A VE3BXI(+VE3HGE) 60,306- 437-69-16-A
26,334- 209-63-13-A W8SH(WA6ABD,WD8s DII QXM.	N9AEJ 81,736-601-68-19-A	WB9GZP 20,160- 168-60-11-B KB9CT 15,680- 140-56- 6-A KB9Q 14,364- 133-54- 9-A W9DLY 14,204- 134-53-10-A	K3WT/0 11.040- 115-48- 5-A	Manitoba 437-09-10-A
oprs) 21,774- 191-57-10-A W8GBR(+K8HHX,KA8CVE, W8GTP,WD8s AKU OWA QGX	WD911X 88,768-608-73-24-A WD911X 81,768-608-73-24-A N9AEJ 81,736-601-68-19-A W9RW 78,402-537-73-13-8 KA9CQM 72,562-497-73-74-A N9AKE 72,270-495-73-24-A KB9E 68,182-467-73-24-A	W9DLY 14,204- 134-53-10-A KB9CI 12,980- 118-55- 7-A WD9EFJ 10,260- 114-45- 8-A	KBORP 6264- 87-36- 9-A WAODEL 3630- 55-33- 6-A KOVW 2530- 55-23- 2-A	VE4GN 23,968- 214-56-16-A VE4AFW(+VE4AFZ) 61,312- 479-64-22-A
RUD) 8424- 108-39- 8-A	AK9N 64,752- 456-71-21-A K9BG 64,610- 455-71-12-B	WB9BNK 6840- 76-45- 7-A WB9EJE 6750- 75-38- 6-A	NØBG(+KØTG,WAØRBW) 172.572-1182-73-24-B	Saskatchewan
Ohio AD8P 159,840-1080-74-24-B	WD9FVE 63,066- 457-69-23-A K8KIX/9 62,496- 434-72-20-A KB9AW 56,580- 410-69-18-A	WB9RKF 5698- 77-37- 7-A KA9EHI 4864- 76-32- 5-A W9YCV 374- 17-11- 2-B	KØTK(+KØFVF,WBØGDB) 170,496-1152-74-24-B KØLTC(KØGRA,KAØS APX DJJ, KBØPM,NØBUF,WØUBT,WBØS	VE5TT 29,440- 230-64-14-A VE5AAD 8132- 107-38- 5-A
KB8EI 143,708- 971-74-20-B WB8VPA 122,494- 839-73-24-B W8LNO 104,974- 719-73-20-B	K9GH 55,440- 396-70-22-B K9UIY 50,304- 393-64- 8-A	W9FK(WA9POV,opr)	KBØPM,NØBUF,WØÛBT,WBØs SNG SNH SNP FBN,WDØs BQP BQR,WD8MHH,oprs)	VE5QM(+VE4IX) 127,428- 861-74-24-B VE5AG(+VE5s BBQ ZU)
WA6EZV/8 104,340- 705-74-22-A KA8D 98.532- 714-69-22-A	AG9A 46,920- 345-68- 7-A WB9VLM 46,104- 339-68-12-B KB9OF 45,694- 341-67- 8-A	112- 8- 7- 1-A 96- 8- 6- 1-A W9BCC 96- 8- 6- 1-A W9DQA(K9EVR,WB9UEP,oprs) 106,536- 772-69-22-B KB9RR(+KB9NM) 96,600- 700-69-21-B	89,760- 680-66-23-B ADØT(+KØKCY,KBØR,WAØIDX, WBØS BIT TRL TQW SCO)	50,952- 386-66-24-B British Columbia
K8EE 92,880- 645-72-22-A AK8W 91,760- 620-74-20-B W8UPH 88,184- 604-73-24-B	WA9DRE 45,402- 329-69-14-B K9MS 29,358- 233-63-12-A	KB9RR(+KB9NM) 96,600- 700-69-21-B AB9L(+WA9DMO)	85,680- 595-72-24-B WB@YUC(+WD@FOF)	VE7IN 173,010-1185-73-24-B VE7CEZ 38,934- 309-63-24-A
WB8ZJY 84,320- 620-68-13-B KA8ESD 78,588- 531-74-22-A K8BL 75,600- 540-70-22-A	KA9ADP 26,040- 210-62-11-A	49,096- 361-68-14-B	82,786- 583-71-21-B WAQQIT(+WDQGPX) 71,264- 524-68-22-A	Yukon - N.W.T.
N8BJQ 74,620- 533-70-20-B W8FN 69,088- 508-68-10-B	N9ALC 24,716- 167-74-12-A KB9PC 22,912- 179-64-14-A WB9SFT 22,144- 173-64-10-A	VJK,WB9s LNL RQR,WD9s ISS JHP) 44,622- 333-67-24-A KA9COE(+KA9HXN)	KAØBZK(+KAØFEX) 28,160- 220-64-17-A	VY1AC 13,992- 132-53- 4-A
N8AHK 60,416- 472-64-15-B WA6LOW/8 58,926- 427-69-21-A KF8K 58,016- 392-74-24-A WA8ADA 52,080- 372-70-20-B	N9BEM 21,840- 182-60- 9-B	42,284- 341-62-24-A KB9GF (+WB9UGX) 36,234- 297-61-15-A	NØNO(+K3WT) 21,620- 235-46- 4-B WAØVQR(+WBØS IHR VPK)	CW - WIPWK.K2PF.W2AFF.
WB8SZN 50.652- 378-67-24-A	W9HPG 19,116- 162-59- 9-A		4400- 100-44- 3-A Missouri	CW - W1PWK,K2PE,W2AEE, W2LPV,KB4JK,AC5R/4,WD5HRC, WB6ZYA,W8VUV,VE3AWE
KI8D 45,370- 349-65-18-B N8TN 44,574- 323-69-13-B	KA9BNG 14,800- 148-50- 7-A KB9LN 14,688- 145-51- 5-B	0	KRAY 204 388-1381-74-24-R	Phone - KA1FE,N1RI,K2PE, N2GU,W2NSD(WB8BTH,opr),
W8HQN 42,366- 307-69-20-B WD8NMT 39,468- 286-69-13-A W8DXT 36,432- 276-66-21-B	WOLLS 10 260- 114-45-10-R	Colorado	NORJ 157,388-1078-73-24-B KBORC 156,512-1072-73-19-B	K3CR,K3NB,KA3BMU,N3ACE, N3BO,W3JSC,W3LR,W3RJ,W3TB, WB3AJC,WB3JCW,KA4NWC,
WA8AGH 34,932- 246-71-16-B WB8BGX 34,688- 271-64-15-A	WD9FVH 8640- 90-48- 5-A K9AR 8600- 100-43- 2-B	KØRF(WØUA,opr) 284,604-1923-74-24-B WØYK 255,152-1724-74-24-B	WØRR(WBØLFY.opr) 106,848- 742-72-24-A WBØOQV 82,732- 559-74-19-A WBØVHN 78,480- 545-72-21-A WAØRR(WK 75,920- 520-73-23-A	WBSZCAW, KBSZCA (K6SMH, opr), AK7J, K7EW, KB7P, KL7F DQ/7, K8EK6, K8KT, K8QLM, K8SJE, N8BGJ, N8BNE, W8BTW, W8KNH,
		KØUK 227,180-1535-74-23-B NØAFI 189,800-1300-73-23-B	WBOOQV 82,732- 559-74-19-A WBOVHN 78,480- 545-72-21-A WAORVK 75,920- 520-73-23-A	K8EKG,K8K1,K8QLM,K8SJE, N8BGJ,N8BNE,W8BTW,W8KNH, W8LHV.WA8PBM.WB8HJX.
WD8JBB 31,034- 263-59-14-A WD8OBX 28,182- 231-61-15-A WB8SBI 25,200- 200-63- 9-B	WAGEEL 6596- 97-34- 6-A	WOCP 183,816-1242-74-24-A KOAB(WBOWL,opr)	WAØWBU 73,840- 520-71-21-B WØHBH 41,400- 300-69-13-A ACØN 40,950- 315-65-10-B	WBLHV,WABPBM,WBBHJX, WBBQXN,WBBRXN,WBBZEF, WDBKXN,WDBNUM,WDBRBN, WBSBR, N9BJP,NØAGS (+WBØHUN),WØCDC,VOJAW, (+SPJHUN),WØCDC,VOJAW,
W8IMF 23,744- 212-56-10-B	KARRON 4320- 90-24-16-R	W9CP 183,816-1242-74-24-A KØAB(WBØ)WL,opr) 155,774-1097-71-24-A ACØS 102,808-724-71-14-B AI4M/Ø 98,420-665-74-20-A	141Dampy 20 750 040 60 16 0	ν Ευχιο, ν Ευ αυτί (ν Ευστίορι),
N8AUH 21,460- 185-58-10-A WD8ECA 20,496- 183-56- 7-A W8OJW 16,800- 150-56-12-A N8BTT 15,494- 127-61-10-A	NOIN 3100- 50-31- 1-A	AGØL 92,148- 649-71-18-A KAØCSL 77,994- 619-63-14-A NØASN 77,792- 572-68-16-A	NØAOP 22,218- 161-69-14-A KØMYD 20,384- 182-56-15-A	VE7CZU
WBOJW 16,800- 150-56-12-A NBBTT 15,494- 127-61-10-A AJ2X/8 14,300- 130-55- 7-A WB8CXL 13,650- 105-65-12-A	WD9GYM 1680- 42-20- 3-A W9VTL 1672- 38-22- 3-A	KCOD 68,340- 510-67-12-B ADOO 67,452- 511-66-18-A	WD0FDK 18,328- 158-58-11-A AG0U 17,898- 157-57- 9-A WB0VHH 6930- 99-35-12-A	Disqualifications CW - WA2ECA (WA2AOG, opr) -
W8ANM 12,980- 118-55- 9-8 WA8UNP 11,176- 127-44-10-A	WA9NTT 528- 22-12- 2-A K9VMI 252- 14- 9- 1-A W9YH(K9s GS VV,KC9J,W9PK,	KAØFPJ 39,260- 302-65-22-A ACØY 34,020- 270-63-13-A KØKRL 21,280- 190-56-16-A	KØFU 5772- 78-37- 8-B WDØCFM 5698- 77-37- 6-A	CW - WA2ECA (WA2AOG, opr) - calisign errors, N4RG - duplicates, WØSA - duplicates, WØYCR - duplicates
WD8SDL 11,074- 113-49- 8-A N8LM 10,700- 107-50- 5-A N8AKE 10,494- 99-53- 5-B	WD9DBT,oprs) 154,322-1057-73-20-B W9LRG(+N9AG,KB9RI) 53,734- 401-67-10-B	WB9CMM(+WB9SSL) 184,704-1248-74-24-B W9DK(WB2CBU,W9PWS,oprs) 850- 25-17- 1-A	KAÓP 5110- 73-35- 3-A KØÁZV(KAØS CDG HDB, WÁØUIS,WDØFNP,oprs)	Phone - K3LR - callsign errors, K4XS - duplicates, N5KW(+K5CM) -
WD8KKF 10,320- 120-43- 4-B	53,734- 401-67-10-B	850- 25-17- 1-A	51,546- 363-71-18-B	duplicates