

Results, 1979 Novice Roundup

A *Novice*, in learning the *techniques* of contesting in the NR, will *generally advance* up the ladder of Amateur Radio licensing, with that little *extra* effort.

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

Hey, all you Novice and Technician types out there. Ever switched on the rig and called "CQ" without getting an answer? Ever sat there in frustration, trying to break the pileup on that "rare" state that you need for WAS or that DX station who's reeling off the QSOs at a pretty good clip? Then, my friend, you've probably got a case of the "well, you can't win 'em all" blues or the "I can't even win one" syndrome. Have we got the solution to your problems — the Novice Roundup.

Ask any of the 561 ops from whom we received logs for the 28th annual running of the Novice Roundup (NR) what they, personally, got out of their participation, and the variety of answers probably will equal the number of individuals participating. Comments ranged from "worked my first DX" to "worked more stations during the NR than in any or all previous time spent on the air" to "increased my code speed several times over" to "had several fine ragchews with folks that I met while I was in the contest." Although the comments differ somewhat, two basic underlying themes, improved operating skills and enjoyed the competition of the Novice Roundup, seem most prevalent. What more need be said?

If you didn't participate in the 1979 NR, you missed a real FB time. Don't make the same mistake again. If you can put out a decent signal, not necessarily a "killer" signal (ops in the last NR ran from 1-watt input to the full legal limit, using antennas ranging from random longwires to multielement beam arrays), we're sure you'll enjoy the NR. After all, next February isn't all that far off.

Since the Novice license was made a five-year renewable or permanent-type affair, we figured that this year would be a good time to draw the line between those newly licensed (less than two years) and the "old-timers" in grade. It seemed logical to assume that if compared side-by-side, the more experienced operators would dominate any top scoring list compiled. It just ain't so. Newcomers WD0BQG and KA0BJI turned in the top all-around Novice scores. In fact, "new" Novices would hold places 1, 2, 5, 6, 7 and 10 in an overall Top Ten rating. Pretty much the same for "new" Technician licensees. The "new" Techs, led by N6BCY and WB6VVH/9T, would hold places 3, 4, 6, 7 and 10 on an overall Top Ten Technician list.

Top Ten Novices

Licensed more than two years

WA4UYJ/N	62,228
WB1AOG/N	61,408
KA2BNF/N	57,440
WB5LVL/N	54,225
WA4OUT/N	49,932
KL7ISO/N	47,227
WB2IUI/N	44,500
WB3GWB/N	40,936
WB0YWP/N	38,048
WD4AHZ/N	36,849

Licensed less than two years

WD0BQG/N	66,468
KA0BJI/N	62,694
WD5COV/N	61,335
WB1FPF/N	60,515
WB1DEU/N	58,310
WD9DBC/N	50,641
KA3ARI/N	50,000
WA2MRW/N	49,929
WH6AFE/N	47,005
KA4BUI/N	44,405

Top Five Technicians

WB3FWD/T	28,824
WD5HZN/T	22,104
WB0VKE/N	17,334
WB2JCU/T	15,376
K8DHK/T	14,440

N6BCY/T	21,255
WB6VVH/9T	19,180
WD5GRV/T	18,444
WD5FPJ/T	17,052
WD9DTF/T	16,860



You can find WA2VQE (NLI Section) at home pounding brass in the Novice Roundup or on the job pounding a beat in the South Bronx. Charles is a police officer in the Big Apple (New York City). Don't try to steal *his* frequency.



Peggy, KA4FVU, with less than 2 months of previous on-the-air experience, proceeded to jump head first into the NR and came away with 279 QSOs, 63 multipliers and second place in the Georgia Section.

We didn't mean to neglect the "over-two-year" crowd. For Novices, WA4UYJ, who was fifth last year, and WB1AOG, both turned in fine performances to lead the pack, while Techs WB3FWD and WD5HZN were number one and two, respectively.

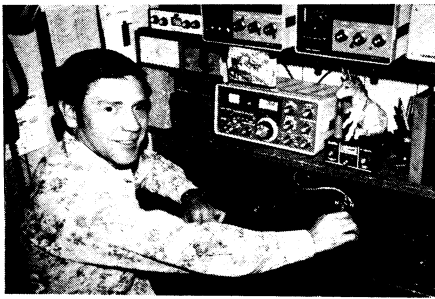
Did you find your claimed score reduced somewhat? The ole log checker has sharp eyes. Each log was given a thorough examination. Where necessary, QSOs and points were deleted, not as a punitive measure, but to point

out mistakes to prevent recurrence. After all, the Novice/Tech contestants of today are the "Big Gun" testers of tomorrow.

QSOs and points can be and were deleted from logs for the following reasons;

1) Incomplete contacts in the log. The call sign, time/date, frequency band of QSO, and *complete exchange*, both sent and received, must be indicated for *each and every* QSO claimed for credit. Many QSOs were deleted because they lacked the *complete exchange*,

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Idaho's top scorer Jack, WB7VBC, who shares the rig with XYL KA7ALU, calls his burro mascot (on the tuner) appropriately enough, "DX."



Russ, WD8PMA, at 16k points, placed sixth overall in the Michigan Section.



William, KA4BFU, from Virginia, stuck mostly to 80 meters to keep his QSO rates up and went to 15 meters to snag most of his 58 multipliers.

which in this case was the call sign, a signal report and the ARRL Section. No matter what contest you enter, *always* be sure to indicate on your entry the *complete* exchange required for *each* and *every* QSO that is claimed in the log for credit.

2) Incorrectly copied information. The log checker has a great many entries at his disposal and can cross-check a good portion of the QSOs in most logs. Example. If you copy the call sign of KX6XXX as KX6XXD, the log checker can then cross-check your log with that of KX6XXX and delete the QSO as an incorrectly copied contact. Be sure to copy, correctly, all the information that is sent to you for each contact during the contest. If you are not sure of what was sent because of QRM or the other op sending a little too quickly, ask for a repeat or a QRS. Better to spend a few extra seconds during the QSO than to lose the points later.

3) Duplicate contacts. If the contest rules state that you can work a station only *once* during the contest for credit, *do not* enter the same station again for credit in your log. When the log checker finds duplicate contacts (dups) in your entry, he removes that QSO plus a penalty of three additional QSOs. Best way to avoid dups is to keep a dupe sheet (CD-77A or equivalent) during the contest (enter stations as you work them) and double-check your log by duping it again after the contest. It's time well spent.

4) General rule violations. Be sure to *carefully* read the rules for each contest *before* the

contest begins. Lots of things that you may never consider important, such as time limits, on/off times, etc. might be an important part of that particular contest.

A very important part of the NR are the General and above licensees and our DX friends who pay a visit to the Novice bands, not just 'cause it's kinda fun for them too, but to help hand out points and multipliers to the NR participants. Thanks, fellows and gals, really appreciate it.

To all those who played in 1979, but will have upgraded in license class (as many do), good luck and be sure to come back next year and give us a hand. To those who didn't participate this year, try it next year; you'll like it. To those newly licensed and those who will be licensed by next February and are reading this report, we extend a hearty congratulations and an invitation to enter the Novice Roundup in 1980.

SOAPBOX

I would like to say to new Novices, "Get in *your* Novice Roundup because if you don't participate, you will always be wondering." I wondered what it was like to be in the Novice Roundup. Now I know how it feels and I know for a fact that if I had missed *my* Novice Roundup, I would have hated myself for the rest of my years (KA7CKE). I never was a Novice, so by participating in this NR, I'm filling in that time in my ham radio life now (WA3UNX). How many points is a contact with a guy named Mr. Spock located on Vulcac Island worth? (WB3INW). Now that I've got the hang of the NR and have a new rig, I almost wish I wouldn't get that General ticket (Hi!) (KA9BDQ).

The toughest thing about the NR comes afterward in trying to get used to just calling CQ not CQ NR and signing your call without the /N (KA8CBZ). The XYL says that I was an "extra" for nine days — EXTRA hard to live with . . . (WD9IOS). DX wasn't exactly rolling in, but I did alright with my dipole at five feet (WD0BLU). You should have heard all the QRM suddenly disappear at 2359Z on February 11 (WD0EAB). The NR caught me with my "ANTs down" so to speak. I only had 80- and 15-meter dipoles up, so I missed out on 10 and 40 meters (WD4SKH). Interesting observation. Quite a few SM (Sweden) stations giving out QSOs and points to the Novices . . . nice gesture (W9FSD). Seems a lot of folks that I talked to on the air knew nothing about the NR. I spent a lot of time explaining, made a lot of new friends, and enjoyed the contest (WB2ONA). Hello, Maine? (WD8RUP). Great fun. Non-ham XYL thinks I'm a nut (WD6DBA/7). Last year, someone said that NR stood for numb rist; revise that to Nervous Reck (WA4UYJ). I started with no serious intention of trying to make a score, but found myself so absorbed in the contest that I just couldn't seem to leave it alone. Wonder if the FCC will make you (ARRL) file a statement to the fact that contests may be habit-forming. Hi! (KA1AUK). Surprised a bit with my results. Using 90-watts output and 65-foot longwire up only 10 feet above ground. Moral: don't hesitate to try simple antennas, you may be pleasantly surprised with the results (WD6BJK). Okay, you guys want comments? I'm writing this from my padded cell. Seriously, NR is for the insane. After six hours of operating on the first night, I racked up the astounding total of 10 QSOs. But, I did get four new states after the week was up. I'll be back next year for revenge (WD8OTW). I had a couple of new Novices over to my shack during the contest, and their feeling about the contest was that if the cw was being sent a little slower, they might have given it a try. I think if a standard speed were sent (like 10 wpm) just for the contest, more new Novices might have gotten on the air. Getting the Novices on the air and having them learn a little about contesting, I'm sure, is the whole idea behind the NR (KA8BQX). In my third NR, I finally worked North Dakota,

Overall Division Leaders

KA3ARI/N*	Atlantic	WB3FWD/T
WD9DBC/N*	Central	WB6VVH/9T*
WD0BWH/N*	Dakota	WD0CHC/T*
WA4UYJ/N	Delta	WD5HZN/T
WD4FXX/N*	Great Lakes	K8DHK/T
KA2BNF/N	Hudson	KA2BZS/T*
WD0BQG/N*	Midwest	WD0AOP/T*
WB1AOG/N	New England	WB2JCU/1T
KL7ISO/N	Northwestern	WB7SEN/T
WH6AFE/N*	Pacific	WD6BJK/T*
WD4GOO/N*	Roanoke	KA4CVL/T*
KA0BJI/N*	Rocky Mountain	WD5FMB/T*
KA4BUI/N*	Southeastern	KA4EER/T*
WD6EIM/N*	Southwestern	N6BCY/T*
WB5LVL/N	West Gulf	WD5FPJ/T*

*Denotes operator licensed less than 2 years



The Orange Section's number one operator in the NR, Jeff, KA6AEI.



Ed, WB3FWD, used a beam antenna, inverted Vs, and 180 watts of input power to work 356 stations and become the number one Technician operator in this year's NR.

completing Novice Band WAS . . . With my 2 x 3 call sign, I get calls from other non-Novices (I'm an Extra). Some don't even seem to understand the problem . . . By the way, could a Novice/Tech, who had passed the General test and had interim privileges, enter the NR as a Novice/Tech? (WB1ANT). [Good question, Matt. Once the Novice/Tech has passed the test and received the Interim Permit, he/she is officially considered the higher class (General from the question) licensee. You might remember Matt, WB1ANT, as having the third highest non-Novice point total in the 1978 NR — Ed.J. Really like the fact that in the NR, you can get an award for making 200 or more contacts. In other contests, you don't get an award unless you win (WD0FGY). Would like to suggest changing the abbreviation of LA to LAX so to avoid confusion with La. LAX would catch on very quickly as it is already the abbreviation for Los Angeles International Airport (WB2IU1). I think I could have done better if my shack were a little warmer. It's only partially insulated and never got above 43° F (KA8BPY). I like to operate on 10 meters best, but there weren't many NR operators on 10 (KA8BQH). Murphy is back. Newly erected dipole caught SWR fever (WD4FJP). Great contest! Mamma mia, so much activity! (N6HE) 1979 NR was a real success for me. Ten new states worked and to my surprise, an SM station answered my CQ. Thirty hours is the perfect amount of operating time. Be back next year (KA2BPV).

FEEDBACK

Please note the following corrections to the 1978 Novice Roundup, the results of which are to be found in August 1978 QST, page 67.

WB7RCN, listed in third place in the Arizona Section, should be the one and only station (Section Winner) listed under a Nevada heading.

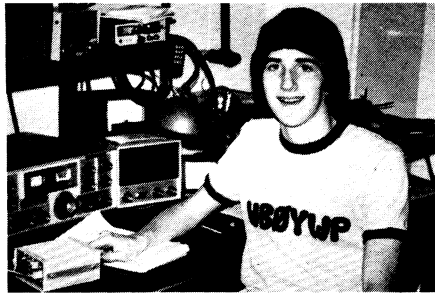
WB5BUT/7T listed under Idaho should really be WD5BUT/7T.



Eileen, WD9HZG (IL), upped her all-time QSO total by about 2000 percent, while doubling her code speed during the Novice Roundup.

Station Equipment — Antennas — Multipliers for the Top Ten Overall Scorers

Call	Equipment Receiver/Transmitter/Power Input	Antenna(s) Used	ARRL Sections	DXCC Countries
WD0BQG	Drake TR4-CW/xcvr/250 watts	vertical/Vs	74	13
KA0BJI	Collins 75S-3/Collins 32S-1/160 watts	quad/Vs	66	20
WA4UYJ	Drake TR4-C/xcvr/180 watts	vertical/Vs	73	21
WB1AOG	Yaesu FT-101EE/xcvr/180 watts	beam/vertical	73	28
WD5COV	Heath SB-303/Heath SB-401/180 watts	dipoles	73	14
WB1FPP	Drake TR7/xcvr/250 watts	beam/Vs	70	21
WB1DEU	Heath HW-101/xcvr/180 watts	dipoles	71	14
WB5LVL	Yaesu FT-101E/Drake R4-C/200 watts	beam/vertical/Vs	69	6
WD9DBC	Yaesu FT-101/Drake R4-C/250 watts	beam/vertical	68	21
KA3ARI	Collins 75S-3B/Collins 32S-1/180 watts	beam/Vs	67	13



In Iowa, Wayne, WB0YWP, found himself in the middle of his first contest, the Novice Roundup, and thinks he may be hooked on contesting. Its hard to get that "dupe sheet" off your back. (Hi!)



The number two score from North Carolina came from this lady, KA4APY. Sandra managed to finish up her WAS (Worked All States) during the NR and had a great time doing it.



Tom, WD6DXH, went into the NR QRP-style from the SCV Section.



Teresa, WD5HPK (N. TX), was pleasantly surprised at the FB results her 70 watts and ended longwire antenna produced.

Novice Roundup Scores

Scores read, left to right: call, score, number of contacts, number of multipliers, and number of hours of operation. An asterisk indicates an operator who has been licensed less than 2 years.

U.S.A.

1

Connecticut

WB1FNU/N* 32,112-431- 72-28
KA1BUQ/N* 24,282-312- 71-18
WB1HKV/N* 16,740-264- 60-29
KA1BUJ/N* 14,495-223- 65-22
WA1ZXT/N* 12,320-209- 55-25
WB1FRC/N* 12,272-208- 59-30
KA1BJJ/N* 10,700-214- 50-18
WB1FKU/N* 10,535-200- 49-12
WB1DVE/N* 9,389-219- 41-18
WB1CTM/N* 6,336-129- 44-17
WB1ESJ/N* 4,070- 95- 37-19

Eastern Massachusetts

WB1FPP/N* 60,515-645- 91-30
WB1CTH/N* 15,111-197- 73-25
WA1JUY/N* (WB1GHC, op) 11,872-224- 53-17
KA1BJY/N* 11,514-202- 57-18
WB1FVY/N* 3,876- 58- 57- 6
N1AJJT* 1,035- 45- 23-21
WB1GNV/N* (KA1AUU/N*) 9,706-196- 46-23

Maine

KA1AJH/N* 3,813- 83- 41-20

New Hampshire

WB2JCU/1T 15,376-248- 62-27

K1FUB/N 14,770-191- 70-30
KA1AUK/N* 14,100-300- 47-28
WB1EIH/T* 855- 35- 19-17

Rhode Island

WB1DEU/N* 58,310-671- 85-30
WB1FLL/N* 18,810-275- 66-22
KA1BTU/N* 18,693-254- 67-30
WB1GLT/N* 12,432-212- 56-30

Vermont

WB1CUO/N* 10,689-218- 49-27
KA1BEE/N* 4,784- 94- 46-23
KA1BSZ/N* 546- 26- 21-30

Western Massachusetts

WB1AOG/N* 61,408-598-101-30
KA1BBD/N* 15,624-252- 62-29
KA1BLV/N* 13,908-244- 57-30
WB1GLX/N* 13,260-221- 60-30
KA1BDD/N* 4,248-118- 36-19
WB1FHN/N* 1,624- 58- 28-10

2

Eastern New York

WA2MRW/N* 49,929-551- 89-28
WB2LQI/N* 24,563-304- 77-30
WB2SKL/N* 17,043-299- 57-
WA2VAX/N* 15,680-245- 64-24
KA2DLX/N* 13,328-213- 56-27
KA2BFG/N* 12,749-199- 61-30
WB2YNW/N* 12,488-208- 56-28
WB2JDI/N* 4,180- 95- 44-13
WD2ABB/T 946- 33- 23-13

KA2BXS/N* 60- 5- 4- 2

New York City - L.I.

KA2CKM/N* 27,216-358- 72-28
KA2CYM/N* 16,683-239- 67-30
KA2CRF/N* 16,520-280- 56-27
KA2AEV/N* 16,287-257- 61-27
WA2VQE/N* 13,230-179- 70-30
WA2WB/N* 11,350-212- 50-26
KA2BZK/N* 11,284-217- 52-26
KA2CWI/N* 11,025-210- 49-25
KA2BUU/N* 10,339-201- 49-30
WA2HQB/N* 5,248-128- 41-30
KA2DXH/N* 250- 15- 10-
KA2DIV/N* 231- 11- 11-24

Northern New Jersey

KA2BNF/N* 57,440-718- 80-30
WB2IUI/N* 44,500-475- 89-30
KA2BTD/N* 16,730-224- 70-23
WB2LXU/N* 16,368-244- 62-29
KA2COV/N* 16,065-240- 63-30
KA2BZS/T* 12,120-202- 60-30
WB3JON/2N* 11,970-210- 57-30
KA2BAQ/N* 11,074-211- 49-22
WB2UH/N/N* 8,288-224- 37-25
WA2TNN/N* 6,580-140- 47-27
WB2VTE/T* 5,120-113- 40-26
WV2ZOW/T 5,000-100- 50-19
KA2CEU/N* 4,704- 96- 49-15
WA2KKG/N* 900- 40- 18- 9
WB2ONA/N* 36- 6- 5- 6

Southern New Jersey

KA2BEW/N* 32,486-439- 74-30
WD2AGZ/N* 32,214-413- 78-27
WA2SOQ/N* 14,220-227- 60-28
WA2JXD/N* 12,040-200- 56-27
WD2AGU/N* 11,312-202- 56-28

WB2REN/N* 10,363-241- 43-29
WB2STV/N* 9,300-135- 60-28
KA2BPV/N* 9,016-181- 46-25
KA2AGE/N* 8,632-166- 52-16
KA2CNB/N* 1,768- 68- 26-14
KA2BLG/N* 1,248- 48- 26- 9
WA2NBE/N* 783- 29- 27- 8
KA2CQX/N* 416- 26- 16-10
WB2YGE/N* 144- 18- 8- 4
WD2AHA/T* 96- 12- 8-10
WA2MGV/T 16- 4- 2- 2

Western New York

KA2CMC/N* 21,440-335- 69-19
KA2CJD/N* 21,420-315- 68-21
KA2CRV/N* 19,902-306- 62-27
KA2BNS/N* 13,862-239- 58-18
WB2MVC/T* 11,400-200- 57-30
KA2CFH/N* 10,712-206- 52-15
KA2BGX/N* 10,250-195- 50-23
KA2BNL/N* 7,000-160- 40-28
KA2CGV/N* 4,773-101- 43-
KA2CFS/N* 3,672- 87- 36-20
WA2PSG/N* 3,604-106- 34-16
KA2AKG/N* 2,345- 67- 35-11
KA2CSY/N* 1,484- 45- 27-12
N2ALB/T* 1,196- 46- 26-13

3

Delaware

KA3BSM/N* 11,180-215- 52-29
WA3BZT/T 7,579-143- 53-30
WA3GAV/N* (WB3KYQ/N, op) 3,456-108- 27- 5
WB3KYQ/N* 324- 16- 9- 3
WB3LGC/T* 1- 1- 1- 1

Eastern Pennsylvania

KA3ARI/N* 50,000-605- 80-30
WB3HVS/N* 34,848-381- 88-30
WB3DCT/N* 23,363-358- 61-15
WB3GTT/N* 21,770-296- 70-22
KA3ALL/N* 21,204-327- 62-30
KA3ASN/N* 19,293-317- 59-27
WB3KRH/N* 15,600-260- 60-29
WB3ISQ/N* 14,526-249- 54-30
KA3BOD/N* 14,070-320- 42-20
WB3UUD/N* 13,090-238- 55-30
WB3KMF/N* 12,726-202- 63-22
KA3AKZ/N* 10,560-220- 48-28
WB3KIT/N* 8,900-200- 49-30
KA3CAN/N* 6,900-150- 46-20
KA3AFY/N* 4,620-105- 44-24
KA3AJC/N* 3,772- 82- 46-19
K3EBZ/T 2,214- 82- 27-27
WB3IMO/N* 1,674- 44- 31-14
KA3BTG/N* 442- 26- 17- 3

Maryland - D.C.

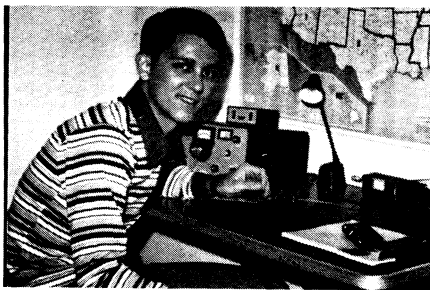
WB3FWD/T 27,824-356- 74-30
KA3BHK/N* 21,827-299- 73-29
WB3EMD/N* 19,032-312- 61-29
KA3BX/N* 18,072-278- 55-29
WB3JRU/N* 13,132-196- 67-
KA3AKC/N* 11,607-209- 53-26
WB3HMX/N* 11,232-208- 54-20

Western Pennsylvania

WB3GWB/N* 40,936-476- 86-30
WB3HHJ/N* 20,164-264- 71-30
WB3INW/N* 13,720-230- 56-22
KA3APH/T* 12,870-224- 55-30
KA3AVT/N* 2,516- 74- 34-24
KA3ATT/N* 198- 12- 9- 3



Despite a little needling from her parakeet, who has learned to whistle "CQ," Retha, WD8QZA, managed to take the number three (overall) slot in West Virginia.



All Novice Roundup ops aren't rotten to the core (oops corps!). Paul, KA4EDF, took a short leave from his job with Uncle Sam's Marines to get in on a little NR activity from North Carolina.



Fran, WA2NBE (SNJ), found the excitement of working a "new" section or state with each contact in the NR very much to her liking.

4

Alabama

KA48UI/N* 44,405-520- 83-30

WA45BM/N* 32,810-366- 85-34

WA42CS/N* 25,704-378- 68-30

WA4CDS/N* 21,896-322- 68-30

WA4DSF/N* 16,992-221- 72-20

WD4JON/N* 14,238-226- 63-12

Georgia

KA4EPX/N* 18,966-327- 58-29

KA4FVU/N* 18,207-279- 63-27

WD4RCP/N* 13,224-228- 58-20

Kentucky

WD4FXH/N* 38,500-490- 77-22

WD4NWW/N* 34,944-448- 78-29

WA4CNR/N* 33,150-410- 78-30

WD4PWJ/N* 25,746-368- 62-30

KA4FBZ/N* 22,208-322- 64-30

KA4FLZ/N* 21,700-290- 70-30

KA4AZT/N* 16,434-249- 66-23

WD4IEH/N* 16,250-235- 65-15

WD4IAG/N* 14,198-214- 62-21

KA4DWQ/N* 12,879-233- 53-29

KA4CVC/N* 12,800-200- 64-30

WD4NYC/N* 11,634-212- 64-30

WD4IWU/N* 1160- 48- 20-14

North Carolina

WD4GOO/N* 28,800-400- 72-23

KA4APY/N* 26,307-318- 79-30

WD4CNR/N* 26,224-318- 79-30

KA4BNF/N* 12,900-215- 60-21

KA4EDF/N* 12,449-211- 59-28

WD4SKH/T* 9185-167- 55-19

KA4HJZ/N* 9180- 70- 54-30

WD4NLX/N* 7791-139- 49-26

WD4JLR/N* 4361- 89- 49-26

Northern Florida

KA4ESB/N* 17,528-298- 56-28

KA4AANG/N* 16,245-275- 57-30

WD4KHI/N* 12,242-254- 61-30

WD4MDK/N* 1891- 46- 31-5

South Carolina

KA4ETC/N* 25,920-417- 60-30

KA4AUR/N* 19,172-272- 66-22

WD4JOT/N* 12,869-214- 61-25

WD4JOT/N* 9568-208- 46-25

WD4PLF/T* 8410-135- 58-27

WD4BHM/N* 4578-109- 42- 8

WD4JPT/T* 3330- 30- 12-12

WD4PRJ/N* 560- 28- 20-10

WA4WYE/T* 336- 21- 16- 7

Southern Florida

WD4AHZ/N* 36,849-519- 71-26

WD8BQV/4N 12,906-224- 54-27

KA4DHC/N* 12,192-234- 48-17

WD4NRF/N* 9200-230- 40-29

WD4JOT/N* 7008-146- 48-30

WD4ONZ/N* 2929-101- 29-22

WD4ERA/T* 494- 26- 19- 8

KA4FGE/T* 315- 21- 15-11

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WA4UYV/N* 62,228-647- 94-23

WA4OYT/N* 49,932-647- 76-30

WD4S1G/N* 14,280-255- 56-14

WD4S1G/N* 13,101-214- 59-25

WD4PEQ/N* 12,859-214- 49-25

WD4NMD/N* 13,115-190- 61-15

WD9HJD/N* 4746-103- 42-21

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KA4BQK/N* 16,932-239- 68-27

KA4CVLT/N* 13,038-236- 53-24

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KA5ASCR/N* 273- 21- 13- 5

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KA5BHD/N* 9856-214- 44-15

WD5CTI/N* 8840-221- 40-13

KA5CPY/N* 8624-144- 56-30

WD5SKEM/N* 5672-111- 56-21

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