

Results, 1978 Novice Roundup

All for fun and fun for all.

By Bill Jennings,* K1WJ

Preheat ionosphere for best propagation. Liberally sprinkle with sunspots. Blend in those long hours of hard work on hardware improvements. A dash of top-notch operator ability. Add a pinch of good luck, and you have the recipe for "winning" the Novice Roundup . . . maybe. Unlike a recipe, which, if followed exactly, produces a uniformly consistent result, the formula for a winning Novice Roundup entry (or any other contest for that matter) contains enough variables to at least make the competition interesting.

We will attempt to offer pertinent operating facts and a few tips, taken from the various NR entries, not in an effort to hypothesize a formula for winning the NR, but as a basis for comparative analysis. Take it for what it's worth. The fun, enjoyment and satisfaction derived from participating in the Novice Roundup, whether you make one or one thousand contacts, can't be measured in facts and figures anyway.

The 27th running of the Novice Roundup, held February 4-12, 1978, brought a total of 700 entries, representing Novices and Technicians from every possible ARRL section, except Nevada and Canal Zone. Logs were also received from two Canadian provinces and five other DXCC countries.

The top ten Novice scores of 1978 average 63k, compared with 49k points by those in the same category in 1977. Conversely, the average score of the top ten Technician entrant decreased by 5000 points to 26k compared with the 1977 "top tenners." The top ten Novices (who are the top ten scorers of the contest, anyway) on the average made 636 QSOs, worked 70 of the possible 75 ARRL sections, and logged an average of 28 additional DXCC countries.

I've decided that I want to be one of the top-scoring entrants in the next NR; how do I go about it?

When should I get on the air to make the best use of my operating time?

A look at the 1978 NR entries shows that the best rates (most QSOs made per

Division Leaders

Novice	Division	Technician
WA2IGK	Atlantic	WA3WIW
WD9HEY	Central	WB9HGN
WD0BNI	Dakota	WD0EPE
WA4UYJ	Delta	WB5YLT
WD4HCF	Great Lakes	WD8DJB
WB7EME/2	Hudson	WB2SUW
WD0BGB	Midwest	WD0DBZ
WB1AVA	New England	WB1BWV
WB7RHF	Northwestern	WB7QOY
WB6TCO	Pacific	WA6MZR
WD4NES	Roanoke	WA8TCG
WD0BZY	Rocky Mountain	WD5FMB
WD4DUF	Southeastern	WD4GSF
WD6ETC	Southwestern	WB7OWA
WB5LVL	West Gulf	WD5EEF

hour of operating time) are made on the weekends and after normal (9 A.M.-5 P.M. local time) working/school hours during the week. Some of the less common multipliers are liable to be on the air during the less congested hours of the contest (some folks don't enjoy pileups — honest!).

When is the best time to try working some of the DX stations for those additional multipliers?

DX QSOs can be turned into extra

multipliers and a large bonus in accrued points by an operator who knows when and where to find them. Operating experience will tell that chances are mighty slim for a U.S.-to-Europe QSO at 1400 UTC on 80 meters, but 10 or 15 meters might very well be chock-full of European signals. There is no reason to tune the bands blindly in search of DX QSOs. The charts that predict the month's average propagation conditions, found every month in *QST* (right after the "How's DX?" column), are as good a place as any to start gathering information on when and where one is most likely to be successful in making DX QSOs.

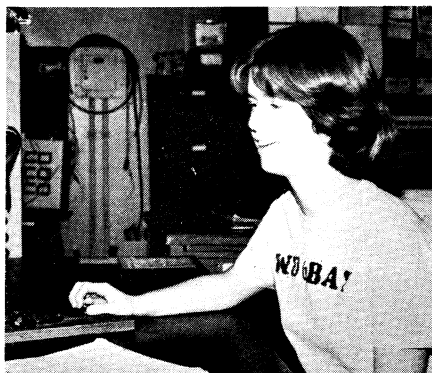
What station equipment and antenna systems are the best?

"Best" is what works well in each individual operator's situation. A chart is included in this report, showing the equipment (by brand name, if any), antennas used on each band, number of ARRL sections worked, and number of DXCC countries worked for each of the top ten entrants. This is not meant to endorse any particular brand of gear. An individual operator's needs, wants and personal preferences determine what is best for that particular operator.

Once the contest is over and the logs are filled out is any further work necessary before submitting my entry?

It is always best to go over your contest entry, *thoroughly*, before submitting it, and check for the following: *duplicates* — check the log after the contest as well as during the contest for duplicate contacts. No matter how carefully you keep a dupe sheet during the contest, it is very easy in the heat of battle, working several QSOs per minute, to forget to enter a call on the dupe sheet. Presto, instant score reduction; *be sure that your entry supplies all the information required to make the QSO a valid contest contact* — if a signal report and section name are part of the required contest exchange, then a valid entry will show the signal report and section name for *each and every* QSO claimed; *be sure that your entry is quite legible* — a log checker cannot give credit for a QSO if he cannot read it in the log; *be sure that your entry is sent in plenty of time to meet*

WD6BAY operated the UCLA ARC station, W6YRA, in the NR. Leslie is secretary-treasurer for the club.



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WD9AKM, Bill, staved off "Murphy's" last-minute appearance and finished the contest with a score of 10k points from Indiana.



Ann, WA4ZCS, took time out from her Army MARS and YLRL activities to turn in the number three Novice score from Alabama.



Steve, WB1BZP, 11 years old, made 151 NR contacts in 55 sections in his first Novice Roundup.

any deadline requirements set by the contest sponsor — after all, if your entry does not arrive in time to be considered a valid entry, all that time spent in operating in the contest and doing the required paperwork is for naught.

The success of an event such as the Novice Roundup is gauged by the enjoyment and good operating experience gained by the participants. Judging by the favorable comments of the participants, the 1978 Novice Roundup was a resounding success, due in no small part to the higher class licensees and our DX friends, who visited the Novice bands "just to help out." Thanks.

Feedback

Please note the following corrections to the 1977 Novice Roundup Results that appear on page 64 of the September 1977 *QST*. The call sign listed as WB7CLA in the Arizona section should really be WB7ELA. WB9YCJ listed in the Illinois section is in reality WB9YJC. And finally, the score for WB9WSO in the Illinois section should be 9163 points rather than the 8428 shown.

Soapbox

I was QRV nearly every afternoon on 21 MHz when the band was open to the U.S. Sure wish all the NR participants had signed /N or /T, sure would have made things easier for those of us only able to work Novices or Techs . . . be back next year. (OE1TKW) Greenwich *Mean* Time is aptly named. (WB7RGM) One problem

in particular that I did encounter was having my CQ NR answered by stations who were not participating in the contest and wanted to ragchew when I returned their call. This is particularly time-consuming and it is a shame that nonparticipants are not at least cognizant of the contest and of the fact that most participants are trying to make as many contacts as possible and really don't have time to ragchew. (WB7OJS) My first time on the air. Quickie contacts helped me to get over my "key fright." (WB2SUW) I think that the time span of 30 hours is just too much. I am sure that it is fine for retired persons with plenty of time, and for youngsters who don't have to work for a living. However, us ole hard-working bananas just don't have that kind of time to spend to become competitive in the contest. (WB5SRB) Many thanks to the General and higher class ops who showed up, especially N6NR. How's that for a call in the Novice Roundup? (WD6CGW) . . . Keeping track of dates and times in UTC is the pits! (WB1GGR) I figured out what NR means — Numb Rist. (WB0ZGD) Just when you get in the swing of that catchy "CQ NR," it's over. (WD9DMJ) I was so surprised when HP1AC answered my CQ, that I came back with "What section?" (WD6EEQ) The General class cw test was a snap after the NR. (WD4DWJ) The Novice Roundup was great fun and as an added bonus, I can now send a slant bar, which heretofore I could not send! (WD4MDA) Had a lot of fun in the NR, but also ran into some problems. Average

temp in the shack was 26°F (lowest it got was -1°F). Had to melt my long wire antenna out of the ice, using boiling water. Then to top it all off, my finals blew half into the NR. I trudged through a blizzard in a futile attempt to buy new ones . . . but NR was the greatest time ever. (WB3HII) Thanks for giving us Novices a chance to share in a portion of amateur radio that the more experienced operators enjoy, contesting. (WD4LTH) I started the contest in the middle of the week. First time I ever missed "Charlie's Angels"!! (WB3JGD) [Now that's real dedication. — Ed.] I think that the hardest part of the contest is keeping the dupe sheet so that you don't work anyone twice. (WD8KEM) I heard many stations calling CQ VT during the contest, myself included. Never did raise a Vermont station. (WD0FPJ) Haven't people ever heard of dupe sheets? I spent half of my time working duplicate QSOs, not all of them were Novices, though. (WB3DCA) I hope that I did OK for a Novice from KL7-land. (KL7JBS) [Any effort from KL7 is greatly appreciated by us Southerners in the lower 48. — Ed.] The Novice Roundup when "mother" is a Novice with three kids and is in the contest means: frozen food dinners, the OM can't use the rig, the telephone stays off the hook, and no one gets to bed on time. (WD4HCF) Worked my first DX in the NR. (WB1DED) I enjoyed the contest very much. I think the idea of spreading the operating time out over 30 hours is excellent, as it gives everybody an equal op-

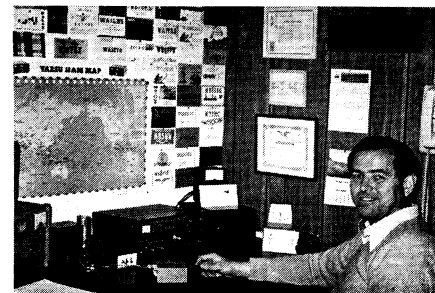
WD0BQG, top-scoring Novice in the Nebraska section, in his "wait 'til next year" mood right at the end of the 1978 NR.



WA4UYJ's 58k points earned him first place in Tennessee and fifth place, nationally, among Novice operators.



Chuck, WB9YQT, enjoyed the quick pace of the NR and is already planning more contest activity in the near future.



Top Ten

Novice	Technician
WA2IGK 88,560	WA3WIW 44,900
WB7EME/2 75,256	WB1BWV 32,472
WD9HEY 68,064	WA1ZPC 32,160
WB1AVA 67,100	WA6MZR 27,648
WA4UYJ 58,420	WB9HGN 26,228
WB1EQI 56,817	WD5EEF 22,302
WD4DUF 56,256	WD4GSF 20,922
WB2JGQ 55,144	WD0EPE 20,608
WD4HCF 55,096	WB3GCH 20,251
WB3COT 52,836	WD0DBZ 18,900

Station Equipment — Antennas — Multipliers

Call	Equipment	Antenna(s) Used	ARRL Sections	DXCC Countries
WA2IGK	Collins 75A-3/Heath DX-60/90 watts	dipoles	72	36
WB7EME/2	Collins 75S-3B/Collins 32S-3/200 watts	dipoles	68	24
WD9HEY	Drake TR-4C/xcvr/200 watts	vertical/dbl. bazooka	73	23
WB1AVA	Kenwood R-599D/T-599D/250 watts	3-el. quad/dipole	70	30
WA4UYJ	Drake TR-4C/xcvr/180 watts	vertical/inverted Vs	70	25
WB1EQI	Kenwood TS-520/xcvr/200 watts	6-el. beam/dipoles	68	39
WD4DUF	Kenwood TS-520/xcvr/160 watts	3-el. beam/inv. Vs	70	26
WB2JGQ	Collins R-388/Yaesu FLDX-400/100 watts	3-el. beam/dipoles	72	41
WD4HCF	Heath HW-101/xcvr/180 watts	3-el. beam/V/bazooka	71	26
WB3COT	Yaesu FR-101/Yaesu FL-101/150 watts	3-el. beam/inv. V	71	13

portunity. Before the contest I was sort of inactive, but got on for the NR and my code speed came right back up to the point where I was able to pass my Advanced class exam on March 1. (WA2KNZ) I'm only 16 years old and I think that the contest bug has already bitten me. So, you ought to be hearing from me for at least another 50 years. (WD6CZR) This past trip to Delaware was a real ball . . . Each trip I make to the "mid-Atlantic toughy" is slanted in a slightly different way. This trip was aimed primarily at Novices during the Novice Roundup. Delaware contacts were easy pickins for anyone who called. Final tally was 416 QSOs, 18 ops said U R no. 50, one op said no. 250 (for 5-Band WAS) . . . and hopefully many others were helped toward WAS or whatever awards they happen to be working toward. And the next trip is in the planning stages. (WA3ZMY)



Paul, WD4JUV, from Alabama, found that 40 meters produced his best QSO rates, while 10-meter contacts were few and far between.



First place in the Minnesota section belongs to this gentleman. He is Evan, WB0WYV, who after making 400 contacts using his straight key, is sure glad the NR is only once a year.

Novice Roundup Scores

Scores read, left to right, call, score, contacts, multiplier, and number of hours of operation.

U.S.A.

1

Connecticut	
WB1AVA/N	67,100-661-100-30
WA1YWW/N	47,770-547-89-24
WB1ALW/N	44,792-499-88-30
WB1FNU/N	20,097-304-63-24
WB1ENW/N	10,498-181-58-28
WB1ACS/N	8,280-180-46-27
WA1UXK/T	6,480-147-40-20
WB1CTM/N	1740-50-29-13
WB1FAH/T	1643-53-31-10
WB1EPW/N	952-56-17-14
K1FZL/T	646-26-18-8
WB1AQ/N	540-30-18-4
WB1FAU/N	4-2-2-1
Eastern Massachusetts	
WB1FPE/N	36,893-452-79-30
WB1FTM/N	13,098-207-59-26
WA1ZXV/N	12,650-220-55-30
WB1FLA/N	10,878-222-49-30
WB1ENV/N	10,865-205-53-30
WB1DSL/N	9635-205-47-27
WB1BZP/N	8855-151-55-20
WB1DHT/T	8742-186-47-30
WB1FKG/N	8575-175-49-13
WB1DXR/N	6264-201-29-16
WB1DKE/N	5538-203-26-28
WB1FTF/N	3735-83-45-6
WA1VYT/N	3515-95-37-28
WB1DJN/N	2470-85-26-15
WB1DUT/N	1034-47-22-13
WB1EHL/N	572-34-13-13
WA1UMA/N	240-20-8-8
Maine	
WB1CGG/N	32,264-421-74-26
WB1CTV/N	24,928-313-76-29
WB1DEB/N	20,400-300-68-30
WA2ORE/IN	14,280-223-60-27
New Hampshire	
K1FUB/N	25,461-354-69-27
WB1DCK/N	11,797-307-71-21
WB1FJW/N	3450-115-30-20
WB1BQU/N	1334-58-23-10

Rhode Island

WB1EQI/N	56,817-516-107-30
WB1DET/N	39,116-483-77-28
WA1ZPC/T	32,160-465-67-30
WB1DEI/N	32,111-431-72-28
WB1SGR/N	11,872-212-56-29
WB1DER/N	10,229-193-53-27
Vermont	
WB1BVV/T	32,472-396-82-28
WB1ENR/N	2080-65-32-18
WB1ATC/N	1080-30-24-8
Western Massachusetts	
WB1AOG/N	40,020-450-87-27
WB1CZE/N	22,242-337-66-30
WA1YXL/N	14,384-228-58-28
WB1BPP/N	12,366-214-54-16
WB1FHN/N	2784-96-29-18
WA1ZUW/N	2688-84-32-11
WB1FV/N	2660-76-35-11
WB1CXK/N	2450-70-35-13
WA1WRK/T	726-33-22-11

2

Eastern New York	
WA2MZX/N	38,078-462-79-28
WA2MRW/N	25,844-354-71-19
WB2SNT/N	18,944-286-64-30
WA2UIP/N	13,924-226-59-25
WB2JVK/N	13,669-216-59-27
WA2LLV/N	12,663-201-63-26
WB2LQI/N	11,596-213-52-30
WA2VAX/N	9513-151-63-27
WB2THN/N	2800-100-28-12
WA2JVW/N	1540-55-28-9
New York City-Long Island	
WB2ISO/N	29,944-379-76-29
WA2SYN/N	24,864-321-74-30
WB2POH/N	15,840-230-66-29
WA2PYV/N	15,444-224-66-26
WA2HQB/N	1932-69-28-12
WB2SUW/T	1896-100-28-12
WB2VAV/N	600-50-10-24
WA2ZFF/T	121-11-11-3

Northern New Jersey	
WB7EME/2N	75,256-818-92-30
WB2JGQ/N	55,144-488-113-30

WB2RNZ/N	22,922-299-73-19
WA2LTS/N	21,266-323-62-30
WB2UIU/N	17,152-268-64-26
WB2RQR/N	14,535-240-57-30
WA2JAX/N	10,868-189-52-30
WA2LZI/N	7733-209-37-20
WA2HUI/N	5051-103-55-11
WA2MBE/N	5460-105-52-11
WA2MIF/N	2494-86-29-20
WA2HCR/N	2268-81-28-8
WA2RZ/N	988-26-6
WA2PIP/N	468-24-12-14

Southern New Jersey	
WA2KNZ/N	23,046-324-69-30
WA2RUH/N	14,809-231-59-29
WA2SOQ/N	11,596-213-52-30
WA2JQH/N	6968-134-52-16
WB2AOL/T	6191-151-41-19
WA2UAU/N	5000-115-40-15
WA2JXD/N	2886-74-39-20
WA2SJT/N	1159-51-19-11

Western New York	
WA2IGB/N	88,560-819-108-30
WB2MMB/N	50-14-18-18
WA2LMC/N	21,838-358-61-28
WB2RWH/N	13,456-212-58-28
WA2ISW/N	12,882-206-57-22
WB2IGV/T	12,600-100-26-15
WA2MWM/N	12,705-211-55-28
WB2OKM/N	11,368-203-56-14
WA2LLO/N	9321-239-39-20
WB2PC/N	2021-243-77-30
WA2IAU/N	2208-69-32-21
WB2PSG/N	1360-68-20-10
WB2MVC/N	198-18-11-19

3

Eastern Pennsylvania	
WA3WIW/T	44,900-449-100-30
WB3HLV/N	25,160-355-68-29
WB3GCH/T	25,160-355-68-29
WB3DNA/N	19,099-254-71-24
WB3GTT/T	17,472-263-64-30
WB3HII/N	16,356-272-58-30
WB3GRT/N	16,320-215-68-27
WB3IKQ/N	15,680-230-64-17
WB3HVC/N	14,640-244-60-17
WB3UD/N	14,030-220-61-30
WB3DCT/N	12,936-206-56-10
WB3HJC/T	12,660-201-60-30

WB3FYT/N	12,348-242-49-24
WB3JQE/N	11,448-201-53-18
WB3GZY/N	8968-152-59-22
WB3F50/N	8832-192-46-30
WB3FFN/N	8034-206-39-22
WB3HNI/T	6697-171-37-24
WB3JBF/N	3400-70-40-27
WB3JYO/N	2670-89-30-11
WB3HVV/N	1560-52-30-11
WB3EPW/N	1400-50-28-17
WB3DIH/T	760-76-10-13

Delaware	
WB3JIU/N	16,575-255-65-30
WB3GV5/N	13,847-212-61-30
WB3FUP/T	1930-66-30-14
Maryland-D.C.	
WB3DCA/N	41,850-445-90-17
WB3JWX/N	35,441-427-83-30
WB3LZ/N	33,374-426-74-29
WB3JLF/N	27,974-379-71-30
WB3IRS/N	10,856-184-59-23
WB3FHO/N	10,653-201-53-15
WB3IRU/N	916-18-52-30
WB3FSB/N	2331-63-37-5

Western Pennsylvania	
WB3COT/N	52,836-614-84-30
WB3GNC/N	26,564-458-58-23
WB3CDD/N	23,751-362-63-21
WB3GWB/N	21,328-344-62-28
WB3DCX/T	16,450-220-70-28
WB3FXT/N	10,277-239-43-21
WB3DTE/T	9792-204-48-23
WB3FHO/N	9768-212-44-30
WB3IAQ/N	8892-224-38-25
WB3BLO/N	6804-189-36-30
WB3KAF/N	5715-127-45-13
WB3IXH/N	5694-146-39-21
WB3HGC/N	5676-117-43-20
WB3DJM/N	4134-91-39-24
WB3JGD/N	4060-101-35-8
WB3INW/N	3182-86-37-12
WB3CLW/N	2160-62-30-8
WB3KOE/N	588-28-21-6
WB3JFS/N	350-25-14-5

4

Alabama	
WB4NQG/N	28,160-352-80-27

WB4DLG/N	17,160-352-80-27
WA4ZCS/N	16,864-248-68-26
WB4JLU/N	14,575-246-61-30
WB4KSC/N	14,396-221-61-13
WA4VKD/N	13,969-229-61-15
WB4DRF/N	12,702-213-58-11
WB4HNI/T	12,042-223-54-2
WA4QID/N	10,915-185-59-30
WB4MNR/N	10,296-198-52-30
WB4HBT/N	7852-151-52-16
WB4KLU/N	5376-97-46-13
WB4HYE/N	5180-125-37-26
WB4NYL/N	748-34-22-30
WB4LNZ/N	561-11-11-12
WB4DBB/N	512-22-16-7

Georgia	
WB4VFX/N	17,484-267-62-29
WB4KAN/N	17,358-243-66-16
WB4AGU/N	16,940-217-70-25
WB4IKI/N	12,726-202-63-28
WB4LUK/T	6118-123-46-27
WB4AQK/N	5474-119-46-17
WB4HER/N	2574-78-33-16
WB4IRQ/N	1374-77-29-13

Kentucky	
WB4HCF/N	55,096-568-97-26
WB4FXX/N	28,497-413-65-28
WB4KLI/N	20,634-362-57-30
WA2QYM/N	16,750-235-67-22
WB4ITJ/N	11,224-234-46-30
WB4IEK/N	13,860-220-63-23
WB4KIC/N	13,725-225-61-15
WB4OKW/N	13,376-209-64-30
WB4HTU/N	10,797-166-59-12
WB4HAT/N	10,927-223-49-15
WB4HVV/N	10,887-191-57-26
WB4IAG/N	5500-115-44-10
WA4GAL	5222-166-36-18
WB4UWY/N	1012-46-22-7

North Carolina	
WB4KIL/N	23,100-330-70-29
WB4HCY/N	21,797-307-71-21
WB4HTX/N	15,128-238-61-23
WB4IOC/N	14,690-226-65-29
WB4ISJ/N	14,450-289-50-26
WB4ACT/N	10,797-166-59-12
WB4WRY/T	2670-79-30-17
WB4SIU/N	2025-75-27-16
Northern Florida	
WB4LAH/N	29,192-313-89-29
WB4MDW/N	25,456-281-86-28
WB4ENQ/N	15,813-231-63-30



Judy, WB3GRT and "friends" enjoyed the NR from the Eastern Pennsylvania section.



Jim's 25k points put WD5CBQ at the top of the list in Mississippi.



Miles, WA2IAU, turned in the number five Novice score in Southern New Jersey.

WD4DWJ/N	14,508-234-	62-30
WD4JQC/N	13,572-224-	58-21
WD4KAG/N	12,198-204-	57-19
WD4XJH/N	3710- 91-	35-22
WA4TKG/N	3333- 81-	33- 6
WA4QFH/N	2176- 68-	32-15
WD4LUG/N	1740- 58-	30- 6
WD4LAL/T	1334- 58-	23-12
WD4MDK/N	455- 20-	13- 3
WD4DBN/N	16- 4-	4- 1

Southern Carolina		
WB4AFP/N	25,788-292-	84-20
WB4MQP/T	10,553-173-	61-29
WD4KFD/T	10,050-201-	50-26
WD4TNI/N	4059- 84-	41-27
WD4LBS/N	1080- 45-	24-13
WD4FJP/N	80- 10-	8- 0

Southern Florida		
WD4DUF/N	56,256-566-	96-30
WD4HSP/N	32,832-432-	76-24
WA4ZGB/N	32,486-429-	74-30
WD4JQB/N	31,755-425-	73-26
WD4AHZ/N	28,706-463-	62-30
WD4GVS/N	20,922-302-	66-30
WD4KAA/N	6090-145-	42-17
WD4MDA/N	60- 10-	6-14

Tennessee		
WA4UYJ/N	58,420-620-	92-27
WD4BQE/N	33,396-449-	69-24
WD4FPT/N	28,710-315-	87-30
WA4QGV/N	21,255-312-	65-27
WA4WBA/N	16,500-280-	55-28
WA4PMQ/N	13,530-190-	66-19
WA4SCE/N	12,998-184-	67-19
WD4EPX/N	11,880-206-	55-29
WD4NMD/N	11,136-207-	48-24
WD4LTH/N	4914-117-	42-20
WD4DFY/N	3640- 91-	40-11
WD4CIN/N	2656- 68-	32-15
WD4JPS/N	560- 25-	16- 4

Virginia		
WD4NES/N	30,880-386-	80-25
K4AF/N(WD4EEA,opr)	27,460-426-	60-29
WD4NHB/N	21,332-361-	57-18
WD4FGN/N	20,584-322-	62-28
WD4FMG/N	15,226-221-	46-27
WD4LGG/N	12,020-220-	56-19
WD4ALH/N	12,096-214-	54-13
WD4FGX/N	10,863-203-	51-12
WD4MVP/N	9246-201-	46-29
WD4FTK/N	7697-179-	43-14
WB7OXF/N	7488-168-	48-17
WD4QSN/N	6591-169-	39-19
WD4LKG/N	4672-123-	38-25
WD4HTT/T	3318- 79-	42-11
WD4LUE/N	392- 18-	14-16

West Indies		
KP4ECE/N	40,964-514-	76-24
KP4ERT/N	21,231-137-	61-19
KP4EDL/N	2686- 69-	34-25

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Arkansas		
WB5TGP/N	24,192-378-	64-30
WB5HZN/N	13,130-202-	65-20
WB5HBN/N	12,430-226-	55-29
WB5DYD/N	12,550-220-	53-15
WB5SRB/N	11,760-210-	56-15
WB5DJW/N	10,780-205-	42-16
WB5WLGN	5117- 99-	43-14

Louisiana		
WB5YLT/T	17,360-265-	62-27
WB5DBR/N	12,265-213-	55- 0
WB5HSE/N	12,264-209-	56-30

Mississippi		
WB5CBQ/N	25,488-339-	72-29
WB5DCK/N	17,460-271-	60-20
WB5DKO/N	9118-194-	47-30
WB5GDA/T	5658-138-	41-19
WB5HLD/N	108- 12-	9- 6

New Mexico		
WB5YID/N	10,816-208-	52-30
WB5FMB/T	1107- 41-	27-14

Northern Texas		
WB5GRW/N	30,810-375-	79-21
WB5EEF/T	22,302-344-	63-24
WB5EWM/N	21,456-298-	72-29
WB5NOC/N	12,430-226-	55-29
WB5GJO/N	13,740-214-	60-14
WB5EMG/N	13,452-228-	59-22
WB5EJC/N	13,144-212-	62-16
WB5CDE/N	10,912-201-	52-30
WB5DRI/T	6885-153-	45-25
WB5HUU/T	3772- 92-	41-15
WB5FUR/N	1457- 47-	31-14
WB5HKJ/T	672- 32-	21-10

WB5WAJ/T	320- 20-	16- 5
Oklahoma		
WB5CJO/N	3333-101-	33-18
WB5EAA/N	1197- 47-	21-11
Southern Texas		
WB5LVL/N	48,691-667-	73-29
WB5BTI/N	6000-140-	40- 9
WB5FJY/N	3135- 95-	33-18
WB5IFG/N	510- 30-	17-14

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East Bay		
WB6ZKN/N	11,289-203-	53-20
WB6SZZ/N	7956-133-	52-25
WD6AEF/T	486- 27-	18- 5

Los Angeles		
WB6ETC/N	41,420-545-	76-28
WB6DIR/N	23,579-313-	73-25
WB6SZH/N	16,320-240-	68-30
W6YRA/N(WD6BAY,opr)	12,852-204-	63-18
WA6HQS/T	5265-107-	45-17
WB6BYN/N	4851- 99-	49-16
WB6DTN/N	2754- 66-	34-28

Orange		
WB6BIB/N	28,704-401-	69-20
WB6KGN/6N	560- 28-	20-21

Santa Barbara		
WD6CYW/N	2208- 69-	32- 9

Santa Clara Valley		
WA6MZR/T	27,648-422-	64-30
WB6CJO/N	18,850-270-	65-18
WB6CHG/N	17,621-263-	67-28
WB6CGW/N	14,625-210-	65-23
WB6DXH/N	14,514-246-	59-16
WB6COR/N	14,280-223-	60-29
WB6EPV/N	12,430-226-	55-28
WB6CKT/N	11,165-203-	55-30
WA6CSB/T	416- 16-	16- 8
WB6CJA/N	99- 11-	9- 3

San Diego		
WB6DHR/N	16,962-242-	66-28
WB6CZR/T	3306- 87-	38-11

San Francisco		
WB6EEQ/N	13,662-207-	66-14
WB6CKD/N	5376-112-	48-20

San Joaquin Valley		
WD6CKF/T	1820- 52-	35-14
WB6BJK/N	224- 16-	14- 8

Sacramento Valley		
WB6TCO/N	21,240-280-	72-25

Pacific		
KH6JTW/N	13,200-210-	60-27
KM6FD/N	5658-123-	46-13

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Arizona		
WB7TAH/N	33,540-430-	78-28
WB7SVI/N	17,615-261-	65-30
WB7OWA/T	16,704-273-	58-30
WB7RCN/N	14,079-247-	57-30
WB7OJS/N	7826-167-	43-29
WB7RCA/N	7816-148-	43-16
WB7BGE/T	5217-111-	47-17
WB7UMH/T	5000-125-	40-30
WB7TWK/N	792- 36-	22-30
WB7RSE/N	627- 23-	19-13
WB7OWW/N(WB7S PLX TAE VIN,opr)	864- 36-	24- 0

Idaho		
WB7OGV/N	27,200-400-	68-25
WB7RRR/N	14,101-239-	59-22
WB5BUT/7T	8632-156-	52-24

Montana		
WB7RHF/N	33,957-539-	63-29
WB7PJD/N	26,666-398-	67-30
WB7QXQ/N	1848- 56-	33- 8

Oregon		
WB7PMG/N	31,382-427-	71-30
WB7QYT/T	14,884-244-	61-19
WB7DPR/N	12,122-209-	58-28
WB7RSE/N	9720-180-	54-23
WB7SRX/N	2800- 70-	40-11

Utah		
WB7DUV/N	13,456-217-	58-13
WB7QEE/N	11,985-225-	51-23

WB7SWO/N	9516-183-	52-12
Washington		
WB7EJE/N	26,996-397-	68-30
WB7RWH/N	24,254-342-	67-30
WB7RVB/N	15,015-216-	65-24
WB7AIV/N	14,756-227-	65-30
WB7BBQ/T	13,950-225-	62-22
WB7RGM/N	12,960-206-	60-26
WB7ECH/N	12,810-210-	61-30
WB7TTT/N	12,198-204-	57-25

Wyoming		
WB7UVB/N	4326-103-	42-30
WB7SNA/N	1769- 51-	29-11

Alaska		
KL7ISO/N	24,180-372-	65-27
KL7JBS/N	18,081-287-	63-23

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Michigan		
WB8BHE/N	35,770-511-	70-25
WB8AOA/N	30,114-433-	72-27
WB8DUG/N	28,275-435-	65-25
WB8NHA/N	22,320-352-	60-26
WB8LYI/N	20,460-295-	66-30
WB8CEN/N	19,425-259-	75-24
WB8OUP/N	17,820-315-	54-30
WB8DJB/T	15,486-267-	58-29
WB8OJC/N	13,900-278-	60-30
WB8ANR/N	12,528-246-	48-22
WB8NJI/N	12,265-208-	55-30
WB8NKC/N	11,078-176-	58-26
WB8GCG/N	10,792-177-	57-27
WB8NJG/N	10,528-214-	47-20
WB8IEY/N	9880-190-	52-14
WB8LBZ/N	9435-255-	37-26
K8QJ/T	7740-180-	43-30
WB8JJM/N	6674-142-	47-28
WB8KXV/N	6480-135-	48-14
WB8KCM/N	6144-128-	48-15
WB8KCN/N	5986-147-	38- 0
WB8OMO/N	2310- 77-	30-22
WB8IOQ/N	1769- 41-	29- 8
WB8VFN/N	1596- 27-	28-17
WB8IVI/N	1375- 55-	7- 0
WB8PTO/N	1184- 74-	16- 9
WB8JZJ/N	765- 45-	17- 4
WB8JRL/N	540- 30-	18-11
WB8IVJ/T	518- 37-	14- 5
WB8QEL/N	240- 24-	10- 9
WB8LJ/N	72- 12-	6- 4
WB8PCV/N	8- 4-	2- 4

Ohio		
WB8YNF/N	29,760-480-	62-29
WB8EWM/N	28,928-437-	64-29
WB8JUQ/N	19,964-322-	62-30
WB8NTD/N	13,209-244-	51-24
WB8LTK/N	13,000-245-	50-29
WB8ITV/T	12,016-217-	72-21
WB8NBB/N	12,483-204-	57-27
WB8TFG/T	12,173-259-	47-13
WB8JHH/N	12,150-225-	54-20
WB8KKT/N	10,116-216-	51-21
WB8JUB/N	10,224-213-	48-15
WB8DKJ/N	9555-180-	49-30
WB8QII/N	8820-210-	42-27
WB8YIQ/N	7890-138-	50-21
WB8KRE/N	6237-189-	33-19
WB8CWS/N	4968-138-	36-24
WB8KQV/N	3182- 76-	37-19
WB8IGV/N	2819-157-	7-24
WB8BGW/N	2350- 94-	25- 8
WB8IJZ/N	1363- 47-	29-19
WB8JRM/N	731- 28-	17-14
WB8MIF/N	629- 37-	17-26
WB8BOW/N	270- 30-	9- 6

West Virginia		
WA8TCG/T	13,110-230-	57-22
WB8MZZ/N	7020-135-	52-18
WB8KAC/N	7004-206-	34-21
WB8KSL/N	2380- 10-	28-25
WB8LFG/N	1748- 66-	23-18
WB8WEE/N	140- 14-	10- 2

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Illinois		
WD9DCL/N	52,260-645-	78-30
WB9VLM/N	51,175-555-	89-30
WB9DDB/N	31,832-326-	62-30
WB9YSP/N	27,192-412-	66-19
WB9HGN/T	26,228-322-	66-19
WB9DNC/N	25,250-250-	77-30
WD9FJF/N	22,032-306-	62-25
WB9CUR/N	22,021-351-	61-30
WD9GCO/N	20,034-318-	63-29
WB9DNL/N	19,250-250-	77-30
WD9FSE/N	16,146-299-	54-30
WA9JFL/T	15,663-217-	69-29
WB9HEK/N	15,176-261-	56-26
WB9TBU/N	13,824-241-	54-29