**By Dan Henderson, N1ND**
Contest Branch Manager

# 2000 ARRL August UHF Contest Results

Stacked Yagis on 15 meters fixed on Europe…a 160-meter Four Square…Beverages laid out to maximize the listening potential…a great network of radials laid out for the vertical… HF contesting has a lot of strategies and techniques that quickly allow one to separate the serious contester from the casual guy.

The same can be said about the UHF enthusiast. But instead of long runs of coax running to multiple towers with a trusty antenna switch box to swap between fixed beams and the low and high stacks, you will find the shortest possible runs of coax, dish antennas, transverters, Gunnplexers and about anything else imaginable. The ability to squeeze out a few additional tenths of a dB of signal often means the difference between a completed QSO and another futile effort to copy that extremely weak UHF signal that you know is out there.

Each year, during the first weekend in August, you find a couple of hundred UHF/microwave stalwarts venturing into this world of weak-signal strategy and engineering ingenuity. In the 2000 ARRL August UHF Contest, 170 participants tested their skills and strategy in what can best be described as one of the ARRL's most challenging contesting events. Unfortunately, this represents a substantial decrease in participation from 1999's record high number of participants, back to the trend of declining activity.

Following up on the 1999 call for "how do we make this a viable contest," two areas were addressed to aid the UHF contester. The Single Operator category was separated into High and Low power divisions. Also, a new technical on-line resource was added in 1999 to provide information and ideas for low-cost involvement in this area of the hobby. The ARRL Lab staff developed and has maintained an outstanding UHF/Microwave resource center on line at **www.arrl.org/tis/info/microwave.html**. Whether you are an old timer to the UHF/microwave spectrum, or are just developing an interest, this Web resource is certain to become a valuable asset as you explore this area of the hobby.

**Don, W6GYD, is poised over the Santa Clara Valley section, as he worked his way to second place in the Pacific Division.**

### Top Five

**Single Operator Low Power**

| | |
|---|---|
| WØUC | 34,452 |
| W6OAL | 11,322 |
| N8XA | 10,575 |
| WØZQ | 8,910 |
| W6FM | 8,772 |

**Multioperator**

| | |
|---|---|
| W2SZ/1 | 723,828 |
| NU7Z | 41,382 |
| WA3UGP | 40,257 |
| N2PA | 39,114 |
| N4OFA | 21,855 |

**Single Operator High Power**

| | |
|---|---|
| WW8M | 190,017 |
| K1TEO | 93,192 |
| WA2FGK (K2LNS,op) | 83,970 |
| W5LUA | 72,468 |
| K1RZ | 62,196 |

**Rover**

| | |
|---|---|
| N5QGH | 237,072 |
| W5ZN | 113,004 |
| WB5IGF | 95,004 |
| WB9SNR | 34,404 |
| KF9US | 31,164 |

**Maybe an ethanol-burning generator can be used to power NØQK's portable shack, being used in this contest by Matt, KFØF.**

Seventy seven entries—45 % of all contest entries—were received in the Single Operator Low Power category. Each Division winner in the category sets the initial Division record for the category, as all old Single Operator Division records are transferred to the Single Operator High Power category. Setting the very first Single Operator Low Power overall record was Paul, WØUC, with a score of 34,452. Congratulations also go to W3KM, WØZQ, KD4NOQ, N8XA, N2GKM, W1PM, N7MWV, W6FM, K8DXN, W6OAL, W4EUH, KE6GFF, WA5VKS and VE3OIL who now hold their Divisions' records for the category.

Don, WW8M, turned in the highest score from the 52 Single Operator High Power entries received. Don's score of 190,017 easily surpassed runner-up Jeff, K1TEO. Congratulations also to KE7SW (Northwestern) and WB6NTL (Pacific) who also set new Single Operator High Power Division records.

The W2SZ/1 Mt. Greylock team from the RPI Radio Club again took top honors in the Multioperator category. Though falling short of the category record, they again showed what organization and teamwork does in a contest. NU7Z (operating with KD7TS) also set a new record in the Northwestern Division.

Rovers accounted for a 16% of the total entries received in the contest. Leading the way in the Rover category was a record-setting performance by N5QGH. His 237,072 points eclipsed the old mark by over 83,000. The West Gulf Division was also a hotbed for roving in this contest, as the second and third place finishers—W5ZN and WB5IGF—also hail from the division. NE8I (Great Lakes), AA7VT (Northwestern), K9OYD (Roanoke), KBØG (Rocky Mountain) and K4SZ (Southeastern), all deserve congratulations for setting new Division Rover records.

The 2001 ARRL Contest Calendar shows the ARRL August UHF Contest scheduled for August 4-5.

**From January 2001 QST © ARRL**

## Scores

Each line score lists call sign, score, stations worked, multipliers, entry category (A = Single Operator Low Power, B = Single Operator High Power, M = Multioperator, R = Rover), ARRL/RAC section, and bands (C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, G = 3456 MHz, H = 5760 MHz, I = 10 GHz. J = 24 GHz, K = 47 GHz, L = 75 GHz, M = 119 GHz, N = 142 GHz, O = 241 GHz, P = 300+ GHz). Band win indicators are listed in boldface type.

### Atlantic

| | | | | | | |
|---|---|---|---|---|---|---|
| W3KM | 2,850 | 30 | 19 | A | EPA | **CD9EF** |
| WA2AEY | 936 | 26 | 12 | A | NNY | **D** |
| W8IJ | 3 | 1 | 1 | A | MDC | D |
| WA2FGK (K2LNS,op) | | | | | | |
| | 83,970 | 202 | 90 | B | EPA | **CD**9EFG |
| K1RZ | 62,196 | 179 | 73 | B | MDC | CD9**EFI** |
| N3NGE | 37,584 | 129 | 54 | B | EPA | CD9EF**GH** |
| NQ2O | 31,104 | 108 | 64 | B | WNY | CD9EFG |
| W2SJ | 14,580 | 70 | 36 | B | SNJ | CD9EFG |
| NS9E | 10,530 | 55 | 39 | B | WNY | CD9EFG |
| WA2ONK | 9,827 | 76 | 31 | B | SNJ | CD9E |
| WA4GPM | 7,326 | 59 | 33 | B | EPA | CDE |
| N3RN | 6,300 | 53 | 30 | B | EPA | CD9EF |
| N3FA | 5,115 | 69 | 33 | B | EPA | CD9EF |
| K3MD | 624 | 13 | 13 | B | EPA | CDE |
| WB2WPM | 63 | 7 | 3 | B | WNY | D |
| WA3UGP (+K3YWY) | | | | | | |
| | 40,257 | 128 | 63 | M | EPA | CD9EFGHIJ |
| N2PA (N2KG,N2YB,ops) | | | | | | |
| | 39,114 | 122 | 82 | M | WNY | CD9EF |
| K2IWR (K2AMB,KB2FAF,KB2LUV,N2MRE,ops) | | | | | | |
| | 528 | 13 | 11 | M | WNY | CDE |
| N2JMH (+N2WVK) | | | | | | |
| | 24,723 | 144 | 41 | R | WNY | CD9EF |
| K1DS | 16,614 | 120 | 39 | R | EPA | CD9EFGIP |

### Central

| | | | | | | |
|---|---|---|---|---|---|---|
| WØUC | 34,452 | 124 | 66 | A | WI | **CD9EFGHI** |
| K9YR | 6,603 | 71 | 31 | A | IL | CD |
| N9TF | 3,975 | 53 | 25 | A | IL | CD |
| N9LAG | 288 | 16 | 6 | A | IL | CD |
| KA4CHT | 96 | 6 | 4 | A | IN | DE |
| KG9PQ | 30 | 5 | 2 | A | IL | D |
| KB9WSN | 12 | 2 | 2 | A | WI | D |
| N2BJ | 27,492 | 121 | 58 | B | IL | C**D9E** |
| KA9QFL | 18,550 | 81 | 53 | B | IN | **CD**E |
| WB9SNR | 34,404 | 126 | 61 | R | IL | CD9EFGHI |
| KF9US | 31,164 | 141 | 53 | R | IL | CD9EF |

### Dakota

| | | | | | | |
|---|---|---|---|---|---|---|
| WØZQ | 8,910 | 74 | 30 | A | MN | **CD9E** |
| WBØLJC | 4,131 | 55 | 17 | A | MN | CD9E**FI** |
| KBØOBT | 432 | 17 | 8 | A | MN | D9 |
| KCØAKU | 231 | 11 | 7 | A | MN | D |
| KFØGX | 126 | 14 | 3 | A | MN | D |
| KCØHEW | 72 | 8 | 3 | A | MN | D |
| WAØBWE | 20,880 | 111 | 40 | B | MN | CD**9EFGHI** |
| KFØQ | 14,310 | 82 | 45 | B | MN | **CD9E** |
| WBØGGM | 5,796 | 51 | 28 | B | MN | CDEF |
| WA2VOI | 4,788 | 52 | 19 | R | MN | CD9EFI |
| KBØN | 2,340 | 34 | 10 | R | MN | CDE |
| KBØZEV | 1,209 | 25 | 13 | R | MN | CDE |
| NØUSE | 12 | 2 | 2 | R | MN | D |

### Delta

| | | | | | | |
|---|---|---|---|---|---|---|
| KD4NOQ | 165 | 11 | 5 | A | TN | C**D** |
| KD4HIK | 120 | 8 | 5 | A | TN | C**D** |
| AD4F | 75 | 5 | 5 | A | TN | D |
| W4ZUG | 30 | 5 | 2 | A | TN | D |
| AA4H | 2,052 | 32 | 18 | B | TN | **CD9E** |
| N4OFA (+W4KXY,AF4HX,KE4WFT) | | | | | | |
| | 21,855 | 136 | 47 | M | TN | CDEF |

### Great Lakes

| | | | | | | |
|---|---|---|---|---|---|---|
| N8XA | 10,575 | 55 | 47 | A | OH | CD**9EI** |
| KB8U | 7,020 | 60 | 39 | A | MI | **CD** |
| WB8AUK | 2,400 | 32 | 25 | A | OH | CD |
| W4FVQ | 864 | 19 | 12 | A | KY | CD9E |
| N8AIA | 663 | 17 | 13 | A | MI | C |
| K8NFT | 72 | 6 | 4 | A | MI | D |
| WW8M | 190,017 | 259 | 129 | B | MI | **CD9EFGHIJK** |
| K2YAZ | 45,816 | 110 | 83 | B | MI | CD9EFGHI |
| K8EB | 22,878 | 97 | 62 | B | MI | CD9E |
| K8TQK | 17,160 | 79 | 52 | B | OH | CD9EF |
| WA8RJF | 6,765 | 43 | 41 | B | OH | CD9EF |
| N8GHZ | 180 | 10 | 6 | B | OH | CD |
| N8PVT (+KC8ALA) | | | | | | |
| | 510 | 17 | 10 | M | MI | D |
| NE8I | 19,071 | 87 | 39 | R | MI | CD9EFGHIJK |
| KG4ITT | 1,584 | 23 | 12 | R | KY | CDEIJ |
| AB4CR | 1,296 | 17 | 10 | R | KY | CDEIJ |
| KF8QL | 900 | 18 | 15 | R | MI | CD9E |

### Hudson

| | | | | | | |
|---|---|---|---|---|---|---|
| N2GKM | 780 | 26 | 10 | A | ENY | CD |
| K2AMI | 726 | 22 | 11 | A | NNJ | **CD** |
| K2OVS | 336 | 14 | 8 | A | NLI | **D** |
| K2RI | 252 | 14 | 6 | A | ENY | CD |
| N2MSS | 231 | 11 | 7 | A | ENY | CD |
| WB2AMU | 96 | 8 | 4 | A | NLI | D |
| N2UZQ | 54 | 6 | 3 | A | ENY | D |
| N1HL | 45 | 5 | 3 | A | ENY | CD |
| WB2IDV | 42 | 7 | 2 | A | NNJ | D |
| N3EMF | 4,425 | 43 | 25 | B | ENY | **CD9EFG** |
| K2ZZ | 120 | 8 | 5 | B | ENY | D |
| N2MH | 4,374 | 54 | 27 | R | NNJ | CD |
| W2BEJ | 120 | 6 | 5 | R | ENY | CDE |

### Midwest

| | | | | | | |
|---|---|---|---|---|---|---|
| NØKQY | 924 | 18 | 14 | B | KS | C**D**E |
| KAØMR | 602 | 19 | 14 | B | KS | C**D**E |

### New England

| | | | | | | |
|---|---|---|---|---|---|---|
| W1PM | 6,045 | 52 | 31 | A | EMA | **CD9E** |
| AF1T | 4,950 | 37 | 22 | A | NH | CD9EHI |
| W1AIM | 3,072 | 28 | 16 | A | NH | D**F**HI |
| W1GHZ | 2,184 | 20 | 13 | A | NH | D**H**I |
| W1VT | 600 | 10 | 5 | A | WMA | **I** |
| AC1J | 510 | 17 | 10 | A | NH | CD |
| N7IAL | 432 | 9 | 4 | A | WMA | I |
| K1TEO | 93,192 | 238 | 88 | B | CT | **CD9EFGI** |
| W1ZC | 1,260 | 35 | 12 | B | NH | D |
| K1LPS | 195 | 7 | 5 | B | VT | DI |
| W2SZ/1 (K2JJB,KE3HT,N2SZ,WA1ZMS,K2LDT, N1SAV,N2XRE,WA2AAU,KBØJWO,N1XSY, N2YCA,WA8USA,KB2YQE,N2LBT,N2YZO, WS2B,ops) | | | | | | |
| | 723,828 | 554 | 196 | M | WMA | CD9EFGHIJ |
| N1DGF (+N1KAT) | | | | | | |
| | 1,150 | 30 | 19 | M | ME | CD |
| KJ1K (+WB2VVQ) | | | | | | |
| | 7,644 | 42 | 26 | R | WMA | CD9EFGH |
| K1DY | 3,726 | 43 | 23 | R | ME | CD9EF |
| WA2IID (+KB2SSS) | | | | | | |
| | 2,730 | 30 | 14 | R | VT | CD9EFGHIJ |

### Northwestern

| | | | | | | |
|---|---|---|---|---|---|---|
| N7MWV | 1,935 | 25 | 15 | A | WWA | **D9FG** |
| N7DB | 72 | 6 | 4 | A | OR | **CD** |
| KK7AT | 21 | 7 | 1 | A | ID | D |
| KE7SW | 19,782 | 94 | 42 | B | WWA | C**D9EFGH** |
| K7ND | 10,788 | 76 | 31 | B | WWA | **CD9**EF |
| N7EPD | 9,888 | 78 | 32 | B | WWA | CD**9I** |
| K7HSJ | 3 | 1 | 1 | B | WWA | C |
| NU7Z (+KD7TS) | | | | | | |
| | 41,382 | 122 | 57 | M | WWA | CD9EFGHI |
| AA7VT | 22,104 | 159 | 24 | R | WWA | CD9EFGI |

### Pacific

| | | | | | | |
|---|---|---|---|---|---|---|
| W6FM | 8,772 | 71 | 34 | A | SCV | **CDE** |
| W6GYD | 3,510 | 50 | 18 | A | SCV | CDE |
| KC6ZWT | 2,268 | 54 | 14 | A | SV | CD |
| KF6GYM | 1,728 | 28 | 16 | A | EB | CDE |
| KQ6DI | 357 | 17 | 7 | A | EB | CD |
| W6ABW | 108 | 12 | 3 | A | NV | CD |
| WB6NTL | 11,448 | 85 | 36 | B | SV | **CDE** |
| W6OMF | 5,184 | 51 | 27 | B | EB | CDE |
| N6JET | 1,938 | 28 | 17 | B | SCV | CDE |
| KD6RB | 108 | 9 | 4 | B | SCV | D |
| W6SFH (+WA6KOD) | | | | | | |
| | 858 | 15 | 13 | M | SF | CDE |

### Roanoke

| | | | | | | |
|---|---|---|---|---|---|---|
| K8DXN | 4,284 | 44 | 28 | A | WV | **CDE** |
| W4NUS | 864 | 19 | 12 | A | NC | DE |
| AD4DG | 312 | 11 | 8 | A | VA | CD**9** |
| W4FAL | 240 | 16 | 5 | A | NC | D |
| K4QI | 23,232 | 104 | 64 | B | NC | **CDE** |
| W4RX | 16,236 | 83 | 44 | B | VA | CD**9EF** |
| W4VHH | 2,706 | 28 | 22 | B | NC | DEF |
| N4AJF | 30 | 5 | 2 | B | NC | D |
| K9OYD | 5,082 | 49 | 22 | R | VA | CD9EFI |

### Rocky Mountain

| | | | | | | |
|---|---|---|---|---|---|---|
| W6OAL | 11,322 | 62 | 34 | A | CO | C**D9EFGHI** |
| K5RHR | 840 | 20 | 14 | A | NM | C**D** |
| KØRZ | 9,600 | 56 | 32 | B | CO | **CD9EI** |
| WA7KYM | 2,700 | 39 | 18 | B | WY | CDE |
| KB5ZSK | 108 | 7 | 4 | B | NM | CDE |
| KBØG (+KCØFTQ) | | | | | | |
| | 7,458 | 76 | 22 | R | CO | CD9EF |

### Southeastern

| | | | | | | |
|---|---|---|---|---|---|---|
| W4EUH | 1,785 | 35 | 17 | A | GA | **CD** |
| KØVXM | 1,044 | 17 | 12 | A | SFL | CD**9EF** |
| K4KAZ | 630 | 19 | 10 | A | GA | CDE |
| NY4F | 135 | 9 | 5 | A | GA | D |
| KU4WW | 54 | 6 | 3 | A | AL | CD |
| K4RF | 6,975 | 48 | 31 | B | GA | **CD9EFHI** |
| K4SZ | 3,060 | 39 | 20 | R | GA | CD9EF |

### Southwestern

| | | | | | | |
|---|---|---|---|---|---|---|
| KE6GFF | 3,000 | 100 | 10 | A | LAX | **D** |
| W9EC | 252 | 11 | 6 | A | SB | CD**E** |
| KF6ISR | 231 | 11 | 7 | A | ORG | CD |
| KE6GFI | 204 | 17 | 4 | A | LAX | D |
| W6IST | 180 | 10 | 6 | A | LAX | CD |
| KE6RCI | 132 | 11 | 4 | A | SB | D |
| KA6TTV | 45 | 5 | 3 | A | LAX | **C** |
| K6TSK | 5,040 | 61 | 24 | B | ORG | **CDE** |
| W6TOI (KE6HPZ,WB6JDH,ops) | | | | | | |
| | 11,970 | 93 | 35 | M | SB | CD9E |
| K6OUE (+KF6YYV) | | | | | | |
| | 3,066 | 65 | 14 | M | LAX | CDE |
| N6DN | 4,422 | 56 | 22 | R | ORG | CD9E |
| KQ6EE | 780 | 24 | 10 | R | LAX | CDE |
| AD6AF | 696 | 29 | 8 | R | LAX | D |

### West Gulf

| | | | | | | |
|---|---|---|---|---|---|---|
| WA5VKS | 2,250 | 47 | 15 | A | NTX | **CDE** |
| KM5OL | 306 | 17 | 6 | A | NTX | CD |
| KC5ZZL | 165 | 11 | 5 | A | NTX | CD |
| NØXLR | 42 | 7 | 2 | A | NTX | D |
| W5LUA | 72,468 | 147 | 66 | B | NTX | **CD9EFGHIJ** |
| WA5TKU | 10,200 | 63 | 34 | B | NTX | CDEFGHI |
| KK5IH (+KK5KK) | | | | | | |
| | 720 | 15 | 15 | M | WTX | CDE |
| N5QGH | 237,072 | 349 | 88 | R | NTX | CD9EFGHIJKP |
| W5ZN | 113,004 | 178 | 86 | R | NTX | CD9EFGHIJP |
| WB5IGF | 95,004 | 142 | 84 | R | NTX | CD9EFGHIJP |

### Canada

| | | | | | | |
|---|---|---|---|---|---|---|
| VE3OIL | 1,428 | 25 | 17 | A | ON | **CDE** |
| VE2/N1EKV | 216 | 6 | 3 | A | QC | I |
| VE9AA | 72 | 6 | 4 | A | NB | D |
| VE9AAA | 18 | 3 | 2 | A | NB | D |
| VA3ST | 8,712 | 66 | 44 | B | ON | **CD** |
| VE3BFM | 2,553 | 31 | 23 | B | ON | CD**9** |
| VE2/K1NKR (+K1PTF) | | | | | | |
| | 147 | 7 | 7 | M | QC | CD |
| VE7DXG | 3,456 | 64 | 18 | R | BC | CD |

QST

# NEW PRODUCTS

## FAQ ON ANTENNA TOPICS FROM W4THU

◊ Jim Thompson, W4THU, owner of the antenna manufacturer The Radio Works, has recently released a 120-page soft cover publication titled *Frequently Asked Questions About Antenna Systems and Baluns Plus Exploring Popular Antenna Myths*.

A wide range of topics is covered. These include Jim's personal antenna philosophy, a glossary of antenna-related terms, an explanation of the decibel, tips on interpreting computer-generated radiation patterns, popular antenna myths, wire antenna types, wire antenna performance characteristics and baluns. Extensive performance data and comparisons between several types of common wire antennas and The Radio Works' own Carolina Windom and Superloop is provided.

A large portion of the material is presented in a Q & A format. The questions were culled directly from e-mail, mail and telephone communications between Jim and customers—and prospective customers—of The Radio Works' products.

Charts, illustrations and tables are used throughout, and the level of technical complexity is intentionally kept to a minimum.

Price, $12.95. For additional information contact The Radio Works, PO Box 6159, Portsmouth, VA 23703; tel 757-484-0140; fax 757-483-1873; **jim@radioworks.com**; **www.radioworks.com**.

# NEW BOOKS

## RADIO RESCUE

*By Lynne Barasch*

*Published by Farrar, Straus & Giroux, 19 Union Square West, New York, NY 10003; tel 888-330-8477. ISBN: 0-374-36166-5. First edition, 10½ × 9½ inches, 40 pages, color illustrations. $16.*

*Reviewed by Margie Bourgoin, KB1DCO ARRL Educational Correspondent*

One way to ensure the future of Amateur Radio is to inspire interest in youngsters. *Radio Rescue* is a wonderful tool for this purpose! The author, Lynne Barasch, begins with an introduction to the year: "In 1923, the clothes we wore were proper. The cars we drove looked like boxes on wheels. Telephones had no number buttons to press. You told the operator whom you wanted to call." Barasch introduces the concept of Amateur Radio, then tells the true story of her father becoming a licensed radio operator in 1923 at the age of 11, the youngest licensed Amateur Radio operator at the time. Her father was elmered by his 17-year old neighbor.


Even very young readers will be enthralled by her father's story as he talks about his first radio contacts and aiding in the rescue of a family stranded in the floodwaters of Florida. All sides of Amateur Radio are shown—both as a hobby and as an invaluable form of emergency communication. This book will capture the attentions of young readers, and will have a strong appeal to adults, too, as they read *Radio Rescue* to their children. The story is compelling and the watercolor artwork adds a special charm. (However, the content may be too advanced for some 5 or 6 year olds.) I highly recommend this book as an addition to any school or local library. QST