

#### **Another Tough Year**

The general word is that conditions were pretty flat for the 2023 running of the September VHF Contest. Also, there were a lot of storms in the North East part of the county. Yours truly was able to get on (from Central Texas) for about three hours Sunday afternoon and evening to some decent E-Skip on 6M, mainly to the Midwest.

## **Activity Levels**

Entries were up a bit this year - 706 in 2023, from 672 in 2022. Most of the categories were close to or marginally increased from last year. The sharpest drop was in the Limited Rover category -from 32 to 18. Perhaps the price of gas? Thanks to all for your participation!

| ARRL September VHF Contest |                              |  |  |  |
|----------------------------|------------------------------|--|--|--|
| Total L                    | Total Logs submitted by Year |  |  |  |
|                            |                              |  |  |  |
| Year                       | Number of Logs               |  |  |  |
| 2016                       | 504                          |  |  |  |
| 2017                       | 473                          |  |  |  |
| 2018                       | 569                          |  |  |  |
| 2019                       | 691                          |  |  |  |
| 2020                       | 833                          |  |  |  |
| 2021                       | 745                          |  |  |  |
| 2022                       | 672                          |  |  |  |
| 2023                       | 706                          |  |  |  |

Single Operator, Low Power remains the most popular category, with Single Operator, High Power and Single Operator, 3 Band right behind. Participation in the Analog Only categories is rather flat in their second year of existence. See Table 1.

Total QSOs generated this year were 53,934, up over 10% from 2022. Six meters saw an increase of over 7,300 QSOs. 144, 222, and 432 MHz QSOs are still declining. 902 and 1296 were up slightly, and 2304+ QSOs were up significantly. See Table 2.

| ARR                          | ARRL September VHF Contest |           |     |     |  |  |  |
|------------------------------|----------------------------|-----------|-----|-----|--|--|--|
|                              | Entries B                  | y Categor | у   |     |  |  |  |
| Category 2023 2022 2021 2020 |                            |           |     |     |  |  |  |
|                              |                            |           |     |     |  |  |  |
| SOLP                         | 210                        | 198       | 272 | 300 |  |  |  |
| SO-ALG-LP                    | 61                         | 65        |     |     |  |  |  |
| SOHP                         | 138                        | 116       | 186 | 197 |  |  |  |
| SO-ALG-HP                    | 27                         | 28        |     |     |  |  |  |
| SO3B                         | 117                        | 97        | 143 | 174 |  |  |  |
| SO-ALG-3B                    | 24                         | 27        |     |     |  |  |  |
| SOFM                         | 18                         | 20        | 25  | 26  |  |  |  |
| LM                           | 20                         | 22        | 16  | 21  |  |  |  |
| UM                           | 14                         | 15        | 12  | 12  |  |  |  |
| SOP                          | 11                         | 7         | 21  | 22  |  |  |  |
| SOP-ALG                      | 11                         | 11        |     |     |  |  |  |
| Classic Rover                | 24                         | 26        | 23  | 34  |  |  |  |
| Limited Rover                | 18                         | 32        | 32  | 35  |  |  |  |
| Unlimited Rover              | 8                          | 5         | 10  | 10  |  |  |  |
| Checklogs                    | 5                          | 3         | 5   | 2   |  |  |  |
|                              |                            |           |     |     |  |  |  |
| Total:                       | 706                        | 672       | 745 | 833 |  |  |  |

Table 1- Entries By Category

|       | ARRL September VHF Contest |               |        |        |  |
|-------|----------------------------|---------------|--------|--------|--|
|       | Tota                       | l QSO's by Ba | and    |        |  |
|       |                            |               |        |        |  |
| Band  | 2023                       | 2022          | 2021   | 2020   |  |
| 50    | 27,047                     | 19,698        | 22,557 | 31,587 |  |
| 144   | 15,720                     | 17,116        | 17,338 | 22,230 |  |
| 222   | 2,786                      | 3,369         | 4,681  | 4,245  |  |
| 432   | 5,092                      | 5,790         | 6,752  | 7,483  |  |
| 902   | 893                        | 836           | 1,333  | 971    |  |
| 1296  | 1,343                      | 1,309         | 1,653  | 1,665  |  |
| 2304+ | 1,053                      | 785           | 1,661  | 894    |  |
| Total | 53,934                     | 48,903        | 55,975 | 69,075 |  |

Table 2- Total QSOs by Band

As expected, the percentage of Digital mode QSOs has increased; this year. 65.50% of the QSOs were made via digital modes. 85.5% of the 6M QSOs were digital. CW QSOs really declined, and there were more CW QSOs on 1296 than any other band. Time will tell, but I believe the poorer conditions are, the fewer analog QSOs there will be.

Right or wrong, the general consensus appears to be that digital QSOs are more possible to complete when conditions are marginal. The analog operators have a valid point that moving folks to other bands is almost impossible to do with digital QSOs. Is there a happy medium???

|       | 2023 ARRL September VHF Contest |              |       |       |        |        |        |
|-------|---------------------------------|--------------|-------|-------|--------|--------|--------|
|       | Bands by Mode                   |              |       |       |        |        |        |
| Band  | Legacy %<br>(CW,FM.PH)          | Digital<br>% | cw    | FM    | Phone  | Digi   | Total  |
| 50    | 14.49%                          | 85.51%       | 205   | 35    | 3,680  | 23,127 | 27,047 |
| 144   | 36.32%                          | 63.68%       | 182   | 757   | 4,770  | 10,011 | 15,720 |
| 222   | 84.31%                          | 15.69%       | 130   | 248   | 1,971  | 437    | 2,786  |
| 432   | 68.13%                          | 31.87%       | 172   | 353   | 2,944  | 1,623  | 5,092  |
| 902   | 97.98%                          | 2.02%        | 142   | 10    | 723    | 18     | 893    |
| 1.2G  | 92.33%                          | 7.67%        | 240   | 28    | 972    | 103    | 1,343  |
| 2.3G  | 98.97%                          | 1.03%        | 100   | 2     | 282    | 4      | 388    |
| 3.4G  | 100.00%                         | 0.00%        | 55    | 0     | 98     | 0      | 153    |
| 5.7G  | 99.51%                          | 0.49%        | 32    | 0     | 172    | 1      | 205    |
| 10G   | 99.26%                          | 0.74%        | 60    | 0     | 210    | 2      | 272    |
| 24G   | 100.00%                         | 0.00%        | 3     | 0     | 11     | 0      | 14     |
| 47G   | 100.00%                         | 0.00%        | 0     | 0     | 2      | 0      | 2      |
| 75G   | 100.00%                         | 0.00%        | 0     | 0     | 1      | 0      | 1      |
| 123G  | 100.00%                         | 0.00%        | 2     | 0     | 8      | 0      | 10     |
| Light | 100.00%                         | 0.00%        | 1     | 0     | 7      | 0      | 8      |
| All   | 34.50%                          | 65.50%       | 1,324 | 1,433 | 15,851 | 35,326 | 53,934 |

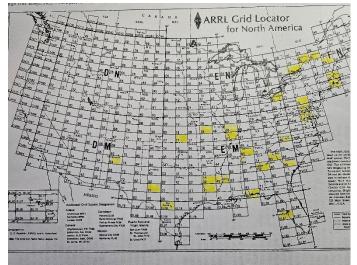
# Accuracy

There are several occurrences where places in the standings were changed due to accuracy rates. You can download your LCR (Log Checking Report) at: https://contests.arrl.org/logcheckreports.php

FT8 appears to be one of the largest contributors to lost QSOs. From personal experience, a number of contacts are thought to be completed when they really were not. Be sure before you log that QSO!

# **DX Entries**

There were a number of DX stations worked, especially by the stations utilizing EME. Logs were received from eight DX stations. Six from Mexico, CO2QU, and PY5CC.



USA Grid Squares worked by PY5CC from Grid Square GG54re

# Thanks!

I would like to take this opportunity to thank those who make the logs and data available for analysis: John K9JK; Trey, N5KO and Paul, N1SFE - Contest Program Manager at the League and my "boss".

## **RESULTS AUTHORS WANTED!**

If you are interested in writing a results article for ARRL, or know someone who might be interested, we have several opportunities for authors. Currently, we are looking for authors for the following results articles:

- ARRL International Digital Contest
- ARRL September VHF Contest
- ARRL 222 and Up Distance Contest

For more details, please contact the ARRL Contest Program Manager, Paul Bourque, N1SFE at n1sfe@arrl.org.

# **Single Operator Category Results**

Again, Single Operator Low Power categories are the most popular, with 271 entries, 61 of which are in the Analog Only category. Single Operator High Power had 165 total entries, 27 of which chose Analog only. Single Op 3 Band had 141 entries, 24 of which were Analog Only.

| Single Operator, Low Power |         |      |       |  |
|----------------------------|---------|------|-------|--|
| Call                       | Score   | QSOs | Mults |  |
| K2DRH                      | 123,384 | 436  | 212   |  |
| N2WK                       | 83,000  | 350  | 125   |  |
| NR2C                       | 81,736  | 382  | 136   |  |
| WB1GQR (W1SJ, op)          | 72,720  | 453  | 120   |  |
| K9MU                       | 49,407  | 270  | 129   |  |
| K9KLD                      | 43,043  | 267  | 143   |  |
| KA2ENE                     | 41,934  | 336  | 87    |  |
| N2OA                       | 30,149  | 220  | 73    |  |
| KA9UVY                     | 28,860  | 205  | 130   |  |
| WM5L                       | 27,776  | 222  | 124   |  |

Bob, K2DRH in NW Illinois moved up from #2 last year to lead the pack in the Single Operator Low Power category. N2WK moved up to second from #3, with NR2C a close third. WM5L placed #10 from West Texas.

| Single Operator, Analog Only, Low Power |        |      |       |  |
|---|--------|------|-------|--|
| Call                                    | Score  | QSOs | Mults |  |
| AF1T                                    | 71,853 | 292  | 129   |  |
| VE3DS                                   | 24,880 | 170  | 80    |  |
| WB2JAY                                  | 19,108 | 175  | 68    |  |
| KAØPQW                                  | 5,376  | 91   | 48    |  |
| AC1J                                    | 5,254  | 97   | 37    |  |
| W4RAA                                   | 5,016  | 84   | 38    |  |
| VA7SC                                   | 4,060  | 96   | 29    |  |
| KØSM                                    | 3,675  | 69   | 25    |  |
| K2GMY                                   | 3,422  | 83   | 29    |  |
| KD2HZI                                  | 3,267  | 87   | 27    |  |

Dale, AF1T, easily took top spot in the Single Operator, Analog Only, Low Power category. In fact, the top 5 from last year were the same, except VE3DS and WB2JAY swapped places. VA7SC and K2GMY from the Left Coast placed 7<sup>th</sup> and 9<sup>th</sup> respectively.

| Single Operator, High Power |         |      |       |  |
|-----------------------------|---------|------|-------|--|
| Call                        | Score   | QSOs | Mults |  |
| K1TEO                       | 306,606 | 745  | 274   |  |
| N2JMH                       | 165,066 | 474  | 183   |  |
| N2NT (N2NC, op)             | 79,846  | 394  | 166   |  |
| W3IP                        | 52,302  | 302  | 138   |  |
| WØAUS (WØZQ, op)            | 47,088  | 276  | 108   |  |
| K1KG                        | 46,620  | 254  | 111   |  |
| К9СТ                        | 40,320  | 270  | 140   |  |
| WA3DRC                      | 37,520  | 247  | 112   |  |
| W5PR                        | 30,960  | 243  | 129   |  |
| K1HTV                       | 24,012  | 247  | 92    |  |

Jeff, K1TEO, again took the top spot in the Single Operator High Power category. N2JMH again took second. N2NT is usually a Multi Op, but one the ops, WW2Y, took a crew to FN24, so John, N2NC, piloted N2NT to a third place showing, setting a new Hudson Division record in the process. W5PR placed 9<sup>th</sup> from South Texas utilizing only Six Meters.

| Single Operator, Analog Only, High Power |        |      |       |  |
|--|--------|------|-------|--|
| Call                                     | Score  | QSOs | Mults |  |
| W2FU                                     | 94,612 | 338  | 124   |  |
| WZ1V                                     | 49,450 | 298  | 115   |  |
| K1TR                                     | 26,896 | 218  | 82    |  |
| K2YAZ                                    | 15,232 | 128  | 64    |  |
| WA1PBU                                   | 14,720 | 150  | 64    |  |
| N9LB                                     | 11,766 | 114  | 53    |  |
| KR1ST                                    | 8,750  | 122  | 50    |  |
| WØGHZ                                    | 5,664  | 102  | 32    |  |
| K6MI                                     | 4,320  | 66   | 36    |  |
| W1GHZ                                    | 3,772  | 51   | 41    |  |

Jeff, W2FU, (6<sup>th</sup> place in 2022) won first place in the Single Operator, Analog Only, High Power category, besting last year's winner, Ron, WZ1V. Jeff set a new overall record for the category. K1TR moved up to third place from 5<sup>th</sup> place last year. N6MI placed 9<sup>th</sup> from SJV, setting a new Pacific Division record. Other new division records were set by W4HLR (Delta), K2YAZ (Great Lakes), WB4WXE (Southeastern) and VE7AFZ (Canada).

| Single Operator, 3 Band |        |      |       |  |
|-------------------------|--------|------|-------|--|
| Call                    | Score  | QSOs | Mults |  |
| KO9A                    | 59,714 | 363  | 146   |  |
| W5TRL                   | 39,182 | 284  | 137   |  |
| KK4MA                   | 20,768 | 173  | 118   |  |
| KO4ECD                  | 13,950 | 204  | 62    |  |
| K9PW                    | 13,203 | 162  | 81    |  |
| NF3R                    | 11,256 | 171  | 67    |  |
| W3FAY                   | 11,220 | 186  | 60    |  |
| NS4T                    | 10,349 | 129  | 79    |  |
| KA9FOX                  | 9,052  | 124  | 73    |  |
| KD2CDV                  | 8,848  | 143  | 56    |  |

Jim, KO9A, set a new overall record while placing first in the Single Operator, 3 Band category. Tim, W5TRL, from STX was able to make use of some good 6M Es openings to place second and setting a new West Gulf Division record. Other division records were set by WD5HJF (Delta), NA2NY (Hudson) and KK4NA (Roanoke).

| Single Operator, Analog Only, 3 Band |       |      |       |  |
|--------------------------------------|-------|------|-------|--|
| Call                                 | Score | QSOs | Mults |  |
| N7QOZ                                | 3,087 | 115  | 21    |  |
| K7CX                                 | 2,340 | 96   | 20    |  |
| K3SFX                                | 1,430 | 52   | 22    |  |
| N1ZN                                 | 1,232 | 49   | 22    |  |
| KN7Y                                 | 884   | 42   | 17    |  |
| W1SRH                                | 867   | 50   | 17    |  |
| N1JD                                 | 680   | 29   | 20    |  |
| WA3SRU                               | 559   | 43   | 13    |  |
| WB7FJG                               | 550   | 42   | 11    |  |
| KG7D                                 | 360   | 22   | 15    |  |

Bob, N7QOZ, from WWA, placed #1 in the Single Operator, Analog Only, 3 Band category, setting a new overall record. Another WWA entrant, K7CX placed

second. There was lots of activity in the Pacific Northwest VHF Society to keep both these folks busy. The remainder of the Top Ten came from various parts of the country. Other new division records: K3SFX (Atlantic), N9OBB (Central), NØUI (Midwest), KG7D (Pacific), KW4SW (Southeastern) and KN7Y (Southwestern).

| Single Operator, Portable |       |      |       |  |
|---------------------------|-------|------|-------|--|
| Call                      | Score | QSOs | Mults |  |
| W4RXR                     | 9,570 | 127  | 58    |  |
| WX3P                      | 960   | 29   | 24    |  |
| NØJK                      | 703   | 36   | 19    |  |
| W2QL                      | 432   | 39   | 12    |  |
| N2MAK                     | 264   | 18   | 12    |  |
| NØSUW                     | 243   | 25   | 9     |  |
| WQ6D                      | 230   | 17   | 10    |  |
| K3GD                      | 210   | 18   | 15    |  |
| KC3UKC                    | 52    | 13   | 4     |  |
| XE2YWB                    | 35    | 8    | 7     |  |

Tom, W4RXR, easily won first place from EM65 in the Single Operator Portable category. Other Top Ten operations were scattered across the States. XE2YWB placed #10 from grid square DL82rs in Mexico.



N2MAK placed 5<sup>th</sup> nationwide in the Single Op Portable category from this setup at 1600' in the Bare Hill Unique Area, near Canandaigua Lake in the Finger Lakes region of Western New York (Photo by Mike Kennerknecht, N2MAK)

| Single Operator, Portable, Analog Only |       |     |    |  |  |
|--|-------|-----|----|--|--|
| Call Score QSOs Mults                  |       |     |    |  |  |
| W7IMC                                  | 4,095 | 174 | 15 |  |  |
| WD5AGO                                 | 3,168 | 58  | 24 |  |  |

| W7JET  | 1,360 | 46 | 17 |
|--------|-------|----|----|
| WB2AMU | 988   | 39 | 19 |
| K2AXX  | 700   | 32 | 10 |
| AA6XA  | 116   | 22 | 4  |
| N7JA   | 68    | 10 | 4  |
| KG7RQJ | 36    | 13 | 3  |
| NU2H   | 18    | 5  | 3  |
| KO6BCW | 8     | 3  | 2  |

Operating from Notellum Butte in Idaho, Scott, W7IMC, set a new overall record in placing #1 in the Single Operator Portable, Analog Only category. Tom, WD5AGO, a long time VHF hilltopper, placed second from Oklahoma, establishing a new West Gulf Division record. Other New Division Records: K2AXX (Atlantic), N3AWS (Delta) and W7JET (Southwestern).

| Single Operator, FM Only |       |      |       |  |
|--------------------------|-------|------|-------|--|
| Call                     | Score | QSOs | Mults |  |
| K6RJF                    | 1,056 | 45   | 16    |  |
| K1CT                     | 728   | 38   | 13    |  |
| AF6GM                    | 660   | 40   | 12    |  |
| N6DRE                    | 456   | 23   | 12    |  |
| KG5UNK                   | 392   | 35   | 8     |  |
| KB1YNT                   | 306   | 29   | 9     |  |
| N6MX                     | 261   | 22   | 9     |  |
| W6JBR                    | 119   | 11   | 7     |  |
| KI4POT                   | 102   | 12   | 6     |  |
| WX4DAT                   | 78    | 12   | 6     |  |

Robert, K6RJF, from the San Diego section, led the pack of 18 participants in the Single Op FM category using 50, 144, 222, and 440 MHz. KG5UNK placed 5<sup>th</sup> from South Texas, setting the only new Division Record (West Gulf) in the category.

## **Multioperator Categories**

Limited Multioperator entries were down by two to twenty. Unlimited Multioperator entries were down by one to fourteen.

| Limited Multioperator |       |      |       |  |
|-----------------------|-------|------|-------|--|
| Call                  | Score | QSOs | Mults |  |

| AA4ZZ  | 184,646 | 650 | 242 |
|--------|---------|-----|-----|
| K5QE   | 107,124 | 366 | 237 |
| W2EA   | 84,064  | 494 | 148 |
| W4AD   | 67,398  | 434 | 141 |
| WW2Y   | 35,046  | 262 | 118 |
| W9VW   | 34,638  | 250 | 138 |
| WA3EKL | 22,356  | 266 | 81  |
| W3SO   | 22,272  | 236 | 96  |
| N9HF   | 14,792  | 136 | 86  |
| W1XM   | 9,776   | 170 | 52  |

The AA4ZZ crew was again the top finisher in the Limited Multi Op category. K5QE placed  $2^{nd}$  and W2EA moved up to  $3^{rd}$ . WW2Y took a hiatus from N2NT and set up with a crew in FN24 to place  $5^{th}$ .



The W2EA (#3 Limited Multi Operator) Team Picture – with lightning! L-R KD2OIL, K2DD, KF4NC, N8MP, AD8N, N3RG, W2SJ, AA3RT, W2MC, KB3SIG, N3AVT, KD2JPV, KD2MPC, K2WB, KE2D (Photo Courtesy W2EA Crew)

| Unlimited Multioperator |         |      |       |  |  |
|-------------------------|---------|------|-------|--|--|
| Call                    | Score   | QSOs | Mults |  |  |
| W2SZ                    | 368,896 | 885  | 262   |  |  |
| WD9EXD                  | 75,174  | 305  | 187   |  |  |
| N8GA                    | 72,268  | 365  | 178   |  |  |
| KD2LGX                  | 52,824  | 307  | 124   |  |  |
| W4NH                    | 49,138  | 289  | 158   |  |  |
| KV1J                    | 48,688  | 311  | 136   |  |  |
| WE1P                    | 48,076  | 346  | 119   |  |  |
| VE3MIS                  | 47,880  | 255  | 120   |  |  |
| WQØP                    | 25,800  | 176  | 100   |  |  |
| N2BJ                    | 25,615  | 216  | 109   |  |  |

W2SZ again placed #1 in the Unlimited Multi Operator category. WD9EXD moved up to second spot from #8 last year just edging out N8GA. KD2LGX repeated at #4. Eighth place VE3MIS set a new Canadian Division record. Places 5-8 were only separated by only 1,258 points.



This crew made many folks happy operating KN6UWK (Unlimited Multioperator) from San Clemente Island in rare DM02. L-R: Heather KM6ZQB, Marty AF5T, Jack KK6YWG, Austin W4PBL (Photo Courtesy San Clemente Island Radio Club)

#### **The Rovers**

The Classic Rovers decreased by two to 24 in 2023. Limited Rovers dropped from 32 to 18, and Unlimited Rovers increased by three to eight.

| Classic Rover |        |      |       |       |
|---------------|--------|------|-------|-------|
| Call          | Score  | QSOs | Mults | Grids |
| VE30IL/R      | 97,966 | 348  | 146   | 8     |
| K2QO/R        | 78,516 | 392  | 108   | 6     |
| KF2MR/R       | 73,341 | 373  | 87    | 5     |
| KA9VVQ/R      | 34,914 | 273  | 69    | 8     |
| W9FZ/R        | 33,728 | 269  | 68    | 8     |
| AG4V/R        | 15,128 | 144  | 61    | 6     |
| KV2X/R        | 14,196 | 220  | 39    | 6     |
| KCØP/R        | 11,417 | 125  | 49    | 4     |
| NØHZO/R       | 9,064  | 110  | 44    | 4     |
| KE2BUY/R      | 9,009  | 112  | 33    | 3     |

There were many familiar calls in the Classic Rover category this go-around. Last year's second placer VE3OIL/R and winner K2QO/R swapped places with OIL taking the top spot.



AA2SD/R, #4 Limited Rover, set up at Camelback, Penn State in Hazleton PA and also the 100 mile overlook located at Jim Thorpe. It was a challenge to keep ahead of the thunderstorms and weather conditions. (Photo courtesy Scott Dantis,AA2SD)

| Limited Rover |        |      |       |       |  |  |
|---------------|--------|------|-------|-------|--|--|
| Call          | Score  | QSOs | Mults | Grids |  |  |
| KG9OV/R       | 28,391 | 251  | 89    | 7     |  |  |
| KM4OZH/R      | 10,976 | 175  | 49    | 8     |  |  |
| N6GP/R        | 6,902  | 184  | 29    | 4     |  |  |
| AA2SD/R       | 6,680  | 145  | 40    | 4     |  |  |
| KA7RRA/R      | 2,268  | 107  | 18    | 5     |  |  |
| KØLTC/R       | 1,863  | 66   | 24    | 4     |  |  |
| KE5HDE/R      | 1,809  | 59   | 27    | 4     |  |  |
| WE7X/R        | 1,648  | 61   | 27    | 3     |  |  |
| NN6U/R        | 1,406  | 85   | 16    | 4     |  |  |
| ABØYM/R       | 1,333  | 59   | 19    | 4     |  |  |

In the Limited Rover category, Tony, KG9OV/R moved up from second place last year to win the category in 2023, setting a new Central Division record in the process. No other Division records were broken. KM4OZH/R moved up to second from 7<sup>th</sup> last year. Out West, N6GP/R moved up to third this year.



*Gil, KM4OZH/R, #2 Limited Rover ready to put on 8 grids.* (*Photo courtesy Gil Thompson, Jr , KM4OZH*)

| Unlimited Rover |         |      |       |       |
|-----------------|---------|------|-------|-------|
| Call            | Score   | QSOs | Mults | Grids |
| NØLD/R          | 135,888 | 540  | 114   | 10    |
| ABØRX/R         | 99,862  | 435  | 98    | 10    |
| NV4B/R          | 63,142  | 358  | 131   | 7     |
| KI5VZJ/R        | 27,712  | 251  | 64    | 10    |
| N2SLN/R         | 17,884  | 182  | 68    | 5     |
| K4CNY/R         | 7,257   | 125  | 41    | 7     |
| W8BRY/R         | 4,284   | 102  | 34    | 4     |
| N2XRE/R         | 3,306   | 50   | 29    | 4     |

NØLD/R, no stranger to the Unlimited Rover category, took the number one spot, setting a new overall record. ABØRX/R, who ran along with NØLD/R placed second. Last year's Limited Rover winner, NV4B/R, changed categories to place third and set a new Southeastern Division record. Seventh Place W8BRY/R set a new Roanoke Division Record.

## **Affiliated Club Competition**

NOTE: The table and discussion appearing in version 1.1 of the results article was incorrect. It has been corrected here.

Total Club Competition entries were up to 33 from 27 last year. Thirty-one clubs entered the Medium category.

The Rochester (NY) VHF Group topped Mt. Airy VHF Radio Club to take the #1 position this year, with the Society of Midwest Contesters rising up to third place. Two clubs entered the Local category. Last year's winner, Chippewa Valley VHF Contesters (from Wisconsin) took a commanding lead over the Bristol, Tennessee Amateur Radio Club.

| Club                              | Score   | Entries |
|-----------------------------------|---------|---------|
| Medium                            |         |         |
| Rochester VHF Group               | 770,063 | 27      |
| Mt Airy VHF Radio Club            | 499,231 | 18      |
| Society of Midwest Contesters     | 415,585 | 28      |
| North East Weak Signal Group      | 237,971 | 15      |
| Potomac Valley Radio Club         | 218,057 | 41      |
| Carolina DX Association           | 185,558 | 4       |
| DFW Contest Group                 | 130,676 | 8       |
| Contest Club Ontario              | 108,455 | 9       |
| Badger Contesters                 | 106,764 | 8       |
| Texas DX Society                  | 99,292  | 7       |
| Ontario VHF Association           | 94,618  | 5       |
| Northern Lights Radio Society     | 88,789  | 17      |
| South Jersey Radio Assn           | 85,454  | 3       |
| Fourlanders Contest Team          | 63,522  | 4       |
| Pacific Northwest VHF Society     | 48,603  | 28      |
| Florida Weak Signal Society       | 38,888  | 4       |
| Frankford Radio Club              | 36,873  | 5       |
| Yankee Clipper Contest Club       | 35,498  | 11      |
| Tennessee Contest Group           | 21,200  | 3       |
| Southern California Contest Club  | 16,911  | 11      |
| Arkansas DX Assn                  | 16,464  | 4       |
| Florida Contest Group             | 14,643  | 5       |
| Central Texas DX and Contest Club | 13,460  | 3       |
| Michigan VHF-UHF Society          | 13,320  | 4       |
| Northern California Contest Club  | 13,312  | 9       |
| Arizona Outlaws Contest Club      | 9,858   | 5       |
| Western Canada Weak Signal Assoc  | 5,983   | 4       |
| Grand Mesa Contesters of Colorado | 4,288   | 4       |
| Wayne County Amateur Radio Club   | 4,094   | 3       |
| Convair/220 Amateur Radio Club    | 2,867   | 5       |
| Niagara Frontier Radiosport       | 1,451   | 3       |
|                                   |         |         |
|                                   |         |         |

| Local                          |        |   |
|--------------------------------|--------|---|
| Chippewa Valley VHF Contesters | 67,600 | 4 |
| Bristol (TN) ARC               | 7,730  | 3 |

## Summary and 73

Thanks to all who participated in the 2023 running of the September VHF Contest.

This will be my last write up for this event. It has been an interesting and eye opening experience. After six years it is time to pass the torch. Thanks to all for your input and for indulging me. We have yet to find a replacement. Anyone interested please contact Paul, N1SFE, ARRL Contest Program Manager at n1sfe@arrl.org Hope to see everyone on the bands.

Also, be sure to check out the soapbox comments and photos at <u>https://contests.arrl.org/sepvhf/soaps/2023/</u>

See you on the air in the next one! 73, Gator, N5RZ

The next ARRL September VHF Contest will be held September 14-16, 2024. For full rules and details, visit <u>www.arrl.org/september-vhf</u>

## **Stories From the Operators**

**W7IMC (#1 Single Operator Portable)** *By Scott Burgess, W7IMC* 



W7IMC at the contest location "Notellum" Butte in DN14 (Idaho Section) at 5500 ft. elevation (Photo courtesy, Scott Burgess, W7IMC)

I'm primarily a portable operator and was the former SOTA W7I Association Manager and the current Idaho POTA Mapping Coordinator. At the urging of members from the Southwest Idaho ARC I became involved in ARRL contesting two years ago and have continuously been improving my portable station, especially my antennas. One of my strategies for VHF contesting is to review the division records for each contest and then pick a category where I can be competitive.

As my contesting skills and station improve I plan on competing in more challenging categories. I was able to earn several grid square multipliers by working several ham Forest Service lookout operators above 9000 ft. on multiple bands. We had contacts with them all summer long doing VHF SOTA and the Sep VHF contest date was the last week they were on duty.

Special thanks to KI0E for helping to explain the contest rules and KW2E for keeping my old radios alive. I would also like to thank all those Hams who have recently moved to our valley bringing their expertise and perspective from other parts of the US.

Equipment and Antennas: Yaesu FT-891 for 6m Yaesu FT-897d for 2m and 70cm ICOM IC-37a for 1.25m Kenwood TK-981 for 33cm Kenwood TM-541a for 23cm Par Electronics SM-50 Moxon for 6m SSB Diamond CR8900A for 6m FM Comet GP-9N for 2m and 70cm Arrow Yagi for 1.25m Arrow Satellite Yagi for 2m SSB Comet verticals mounted on Amazon speaker stands for 33cm and 23cm LMR 600 for 2m, 70cm, 33cm and 23cm RG8/U for 6m FM Bolton 400 for 1.25m and 6m SSB

73, Scott, W7IMC

**W9KXI–Single Op High Power WNY Grid FN12ne** By Al Oldfield, W9KXI - from Pack Rats "Cheese Bits" September 2023 Newletter

Like everyone else, there were really poor conditions here. I'm certain that the storm that went through hampered things. All modes were used but the majority of the 6M and 2M contacts were FT8. 222 and 432 were all analog. My 6M contacts were mainly NE regional contacts. Not many were much further South than Virginia. Having said that... late Sunday, I decoded stations attempting to work South America. I turned my small, 4-element beam that direction and worked, Argentina, Brazil, Paraguay and Uruguay. Some of these stations appeared to want the classic exchange, with a signal report, and NOT the NA Contest mode. It appeared like they would "move on" if they didn't do the classic exchange. I have learned to be adept at the quick format change.

2M: A week before the contest, I took down my venerable, 15 year old, 15 element, Quagi and replaced it with a much lighter 12 element beam. So far, I have no regrets. It weighs less, has less wind loading and it works. My 2M contacts were mainly regional as well. Unfortunately, there were no spectacular openings. I did decode one station in EN96 but it was only one transmission and was gone.

23cm. I attempted only one contact. That was with my friend Herb - K2LNS. I heard only a brief moment of his CW and he was ...gone. 73. Al - W9KXI



WW2Y Antennas. (Photo courtesy Peter Hutter, WW2Y)

#### WW2Y - #5 Limited Multi Op from EM24 By Peter Hutter, WW2Y

Dave, W2KV and I did a field day style operation at an off grid cabin on top of a ridge near Owls Head, NY, which is located approximately 18 miles south of the Canadian/US border.

We arrived at the cabin Thursday evening to assemble the station. It consists of two Yaesu FT991 transceivers, kilowatt amplifiers for the lower three bands, and a 100w brick for 70cm. We spent most of Friday setting up two rotating 35ft Penninger Tipper masts that supported two antennas each. The first mast supported a 3 element beam for 6m and 15el K1FO beam for 70cm. The second mast supported a 9 element beam for 2m and 10 element beam for 1.25m. The 6m/70cm station had another antenna for 6m, an 3 element stacked dipole array suspended between two tall trees by ropes plus pulleys at a height of 70ft. Desired azimuth bearing of the array was accomplished by tying off two tag lines at ground level. QSO right before contest close.

Dean, K2WW and newly licensed operator Nate, KE2BJJ joined us for a few hours. Saturday night and Nate worked a number of stations for his first contest experience. He's an EE graduate student at Clarkson University and we think he's now hooked on contesting.

We had a decent 6m sporadic Es opening with "double hop" conditions mixed in that spanned into Southwestern portion of the DM territory. Once I noticed multiple strong FT8 signals started to saturate the WSJT-X display, switched to the SSB mode, spun the VFO and found KA0PQW who had a decent signal, then worked him quickly. Went up a few KHz to call CQ, a loud caller, K2DRH answers for the new multiplier and my adrenaline kicks in.

In just a few minutes, we snagged three W9 rovers plus several other stations, the run abruptly vanished because of lack of activity and my hopes were dashed with disappointment. The band remained open well for quite a while longer and I had to go back to FT8 in order to make progress. The days of running stations on analog are long gone.

On the plus side of this contest, W2KV did a terrific job on 2m and 222 Mhz. I recall his excitement working WA3DRC for one of most distant terrestrial contacts using CW. He heard Ed's strong signal on 222MHz at first after moving up from 2m, but deep QSB kicked in taking Ed's signal into the noise. He made decent QSOs into FM19 territory as well. For some reason meteor scatter activity on 2 and 6 meters was significantly down from normal, but worked a couple of new ones.

Overall, We had a successful and fun time being in the boondocks.

73, Peter and crew.



WW2Y Operating Position with W2KV at the controls (Photo courtesy Peter Hutter, WW2Y)

#### **K9JK/R – Classic Rover from 4 Grids** By John Kalenowsky, K9JK from 3830scores.com

A low key effort, just for a few hours late afternoon on Sunday, partially motivated by trying to complete a contact from a 'favorite suburban mountain' (a public parking structure) to a new grid (EN42) on 10G with a rover team that was going to be there...success!

All contacts were 'analog only' - 5 CW and 16 SSB. Antennas for 6, 2 and 432 were mag-mounts but it was nice to catch some stations in Texas and one in New Mexico despite the suboptimal radiating capability.

Thanks to all who were on for the contest (ESPECIALLY those who used their microphones and keys) and to the ARRL for hosting this event.

73, JK

#### KG9OV/R #1 Limited Rover

By Tony Controtto, KG9OV from 3830scores.com

On the station improvement front, a Raspberry Pi with a custom OS image has been added to the rover. This will serve as the host for various station automation and general network services going forward. To start with, it has its own GPS with PPS output attached and is serving GPS disciplined time (NTP) and general gps data for clients on the network to consume as needed. A custom utility to automate grid changes in the WSJT-X instances was implemented as well. That removed a couple steps in config changes with every grid change. Thanks/credit goes to Jeff K9KLD for the nice custom designed and 3D printed case for the Pi and providing the WSJT-X grid change utility.

True to fashion it seems, I didn't have any grand plans for a route for this contest. So, when a fellow SMC club member reached out asking for help with his 90th grid on 432, working that into the route became the plan. Just so happens that EM49 was the grid he was after and I've been visiting that one fairly regularly. The EM49-EM59-EN40-EN50 grid corner is fairly close to home and there are several great spots to operate from at that corner. I also rather enjoyed operating from Taum Sauk Mountain in EM47 last year. So, I decided to do basically the same route from last year, just in reverse this time. Start in EM47 on Saturday and work my way up to the EM49-EM59-EN40-EN50 corner for Sunday.

Taum Sauk is relatively close to home as well, so there was no need to rush or even get up early on Saturday in order to get there with plenty of time to leisurely get setup and ready for the start of the contest. Turns out that like last year, the weather at Taum Sauk was absolutely beautiful. Being able to open all the windows/doors in the van and have a nice breeze is always a bonus. Also gives the poor engine a rest from running A/C on full blast trying to keep everything (especially the operator) cool.

The conditions were pretty much nil for the start of the contest, but the elevation at Taum Sauk tends to help out a bit. Being the highest point in MO at  $\sim$ 1700ft, the usual suspects in Chicago land, down into AR/TX, and even deep into the south east are all possibilities. So, with a nice breeze though the rover and the Qs fairly steadily going into the log, the six hours or so flew by. But, to be a rover, you do have to move once in a while and that was enough time in one place.

While in EM47, during a brief break, I noticed that somewhere between when I left the house and when I randomly looked up, the 6m moxon had broken. One of the "stressed" tubes on the "side" had broken again. It was still physically attached and the antenna was functional, but it wasn't holding on by much. Having had the same issue in the past and still having some spare parts at home, stopping by the house to fix it became part of the route. Luckily that was only a couple miles out of the way on the trip north. So, after getting that fixed, I was finally up to the north end of EM48 for a short stop to throw a few more Qs in the log. Then, the late night drive up to the EM49-EM59-EN40-EN50 corner.



KG9OV/R Van and antennas after taking the failed 6M Moxon down (Photo courtesy Tony Controtto, KG9OV)

After a few ZZZs in the wee morning hours, I was up early looking for some rocks on 6 and 2. That seemed to be going OK right up until the 6m moxon went completely off the rails. SWR suddenly went to roughly infinity. So, that lead to spending the next little while troubleshooting that issue. For whatever reason I had left on this adventure without an antenna analyzer which I normally carry. I finally found the needed cable to remove everything between the radio and antenna to eliminate a lot of failure points. No joy, SWR still off the charts. So, that brought the contest to a screeching halt. It was early on Sunday morning and one of the money bands was dead in the water. The only thing left to do was tear the moxon off the mast so I didn't have to mess with it at every stop and move on. I was tempted at the time to throw it in a ditch, but opted to instead break it down and throw it in the corner of the van instead.

There was still the 90th 432 grid for a fellow club member mission to complete and the gas money was already gone. So, the rest of the contest looked like a casual stroll through some grids to hand out some Qs and maybe a mult or two to the various folks that follow my escapades. As it turns out, 6m remained mostly dead so even the stations that still had 6m antennas were chomping at the bit to get those precious Qs on the upper bands instead of glued to 6m Es. All in all, it wasn't a bad rest of the day really. Somehow I even managed to beat my own score from last year by a hefty margin even without 6m for a large portion of the contest.

Even though it all seemed to work out OK, that was the 4th time that particular antenna has failed and the second time it took 6m out during a contest. I already had plans to replace the moxon with a 3el yagi, I just didn't get that project completed prior to Sept VHF. Now though, that particular antenna will be relegated to scrap aluminum status. When it works it seems to be a decent enough antenna, but not dependable at all. The 3el yagi will be in place by Jan VHF.

Until next time ... thanks for the Qs!

#### Gear:

- Flex 6600 / Q5 Signal 5BVUX
- 50 200w Par Moxon @ 18'
- 144 200w Directive Systems 6el Rover Yagi @ 12'
- 222 100w Directive Systems 10el Rover Yagi @ 10'
- 432 100w Directive Systems 15el Rover Yagi @ 8'



The KG9OV/R operating position in the van – nice! (Photo courtesy Tony Controtto, KG9OV)

#### K2UA - A 10 and 24 GHz Tune-Up in the September Contest By Rus Healy, K2UA

For the past several years I've focused my efforts in all of the major VHF contests on 10 GHz and up to drive more activity on those bands, and to take advantage of the number of active stations in the Rochester, Toronto, and Ohio regions. It has been fun. Then, after a hiatus of about 25 years from 10-band roving, I returned to that in January 2023, building out my station again and hitting the road in the January and June VHF Contests. The September contest is too close to the 10 GHz and Up Contest's second weekend (just one week earlier) for me to make a full roving effort; I was still in the midst of preparing for that. But I had just upgraded my 10 GHz system to a 30-W PA and had made a number of improvements to 10 and 24 GHz systems to reduce noise figure and transmit-side losses, so I went to a good location near home and got on between rain cells to test things out.

In a rain-limited 30-minute outing around noon on Sunday, I was rewarded with eight QSOs in four grids on 10 GHz, including three over 200 km, and one QSO on 24 GHz in a neighboring grid. The flurry of activity on 10 GHz near the calling frequency was impressive, with random calls from N2JMH and NR2C in the same minute after I finished a QSO with N2WK, delaying our QSY to 24 GHz. Can't beat that kind of activity! My best DX was with VA3TO/R in EN93, at about 220 km. Very remarkable distance-wise, and signals were about S9 +10 dB. Hugh and I often work over a similar path with signals like this--easy SSB copy with very little fading.

I was also happy to make my first QSO with Dave, N2OA, who had just put his IC-905 on the air in June. Dave is one of about 20 active stations in the Rochester area (FN12/FN13/FN02/FN03), which is seeing growth of two or three stations each year thanks to a very active community in the Rochester VHF Group, Ontario VHF Association, and surrounding areas, with coordination on Slack and collaboration on groups.io groups, and the Amateur Radio Microwave Community Facebook page. We also run at least two annual tune-up clinics including an August event with a cookout and antenna range in FN12 that has become a popular event, covering gear for all bands from 902 MHz and up. It takes some effort to get it going, but the enthusiasm is contagious and the results have been fantastic. 73--Rus Healy, K2UA



A view on a dry day from K2UA's operating location for the September contest, showing his 10 and 24 GHz dual-band setup. The antenna was a 76-cm Winegard dish fed by a W1GHZ dual-band feed. The plastic container hanging to the left is used to protect the feed, T/R relays, and low-noise receive amplifiers during travel. (Photo Courtesy Rus Healy, K2UA)

# WB2AMU - #4 Single Op Portable Analog Only from FN30IT by Ken Neubec, WB2AMU

As anyone who does QRP portable operations from remote locations during the ARRL VHF contest can tell you, there are many challenges to the operator. Besides the usual setup problems, there are other factors concerning the locations, particularly with regards to public parks. Especially for the Long Island area, some of the public parks are prone to illicit activities by park visitors that can be a distraction to the radio operator doing QRP portable operations. There are only two high points on Long Island, both around 250 feet ASL, and both are located inside public parks. The one that I operate from for the three yearly ARRL VHF contest has had its issues over the 30 years that I have gone there, and various undercover police activities to curtail illegal activity have taken place as the result of public complaints. Two weeks prior to the 2023 September VHF contest, an undercover operation at the hill that I operate from, netted a former high-ranking police official involved in illegal activity.

I was a bit concerned that when the September VHF contest took place, there would be problems, but as it turned out, it was very quiet at the park as shown in the attached photo and I was able to focus entirely on the contest. There was much static on the bands during Saturday afternoon as the result of thunderstorms located to the west of me. However, on Sunday morning, there were some moderate tropo activity on the bands. I was able to hear W2SZ (FN32) on SSB at very loud signal strength on 432 MHz and able to work him easily. I was able to work into some upstate NY grids and into Eastern PA. The conditions lasted about one hour and then there was no more activity on any of the bands with regards to SSB and CW. It was still an enjoyable event!



WB2AMU Operating Location in FN30it. (Photo Courtesy Ken Neubeck, WB2AMU)

# W4RXR - #1 Single Op Portable from EM65nj by Tom Smith,W4RXR

I have always loved the outdoors -- hunting, skiing, camping, hiking, Boy Scouts, etc. Portable QRP operating is a natural outgrowth of these interests with ham radio added as a bonus. My first Port-QRP was 3 watts and a 5 element yagi, SSB, on 144 in the North Carolina Mountains. This was an eye opening introduction to what could be done with a small portable station. Since that initial operation I have continued to improve and build more effective stations.

I now run the max power (10 watts) on all bands. I have begged, borrowed, and built many more antennas, as this is one of the best ways to continue to improve my operation. I have also added band after band until I presently can operate on 50, 144, 222, 432, 902, 1296, and 10 GHz. Finally, I have kept current by expanding to most modes including SSB, CW, FM, and FT8. All of these improvements have led to a nearly mandatory need to operate throughout the contest with virtually no breaks. Also, all of this expansion of antennas, equipment, operating, and personal needs, has required that I set up a tent and carry food to support the operation.

Another on-going improvement is to find the best locations to set up the operation. I presently live in middle Tennessee (no mountains!), so I'm always searching for the best open ridge that I can find. This area of the country does not have as high a density of ham radio operators as other parts of the country, so all these improvements help me make up for that shortcoming of the area.

Portable QRP operation offers alternatives from what I can do from my lower land home QTH and fulfills a myriad of operating goals: (1) Getting outdoors. (2) Practicing portable EMCOMM setups. (3) Enjoying more QSOs than I could ever have from my residence.

I would like to send thanks to all the stations who exhibit the patience to dig out us weak signaled players in the contest.

73, Tom, W4RXR



W4RXR Operating Location in EM65nj in Central Tennessee. (Photo Courtesy Tom Smith, W4RXR)



KQ4GEX/R: First timer here, went up the side of the mountain with my HOA Antenna. Operated from FM08 and FM18. It's what I have!!! It was fun. Thank you for having this contest. (Photo Courtesy Michael P Kohlbecker, KQ4GEX)

|                               |               |                | N7QOZ                      | 3,087            | SO-ALG-3B |
|-------------------------------|---------------|----------------|----------------------------|------------------|-----------|
| Regional Leaders              |               |                | K7CX                       | 2,340            | SO-ALG-3B |
|                               |               |                | KN7Y                       | 884              | SO-ALG-3B |
| West Coast Region             |               |                | WB7FJG                     | 550              | SO-ALG-3B |
| (Pacific, Northwestern and So | uthwestern D  | ivisions;      | KG7D                       | 360              | SO-ALG-3B |
| Alberta, British Columbia and | TER Sections) |                |                            |                  |           |
| WA6OEM/R                      | 1,668         | R              | K6RJF                      | 1,056            | SOFM      |
| KD6EFQ/R                      | 1,649         | R              | K1CT                       | 728              | SOFM      |
| N7DA/R                        | 546           | R              | AF6GM                      | 660              | SOFM      |
| N6VHF/R                       | 468           | R              | N6DRE                      | 456              | SOFM      |
|                               |               |                | N6MX                       | 261              | SOFM      |
| N6GP/R                        | 6,902         | RL             | W01S                       | 1,092            | LM        |
| KA7RRA/R                      | 2,268         | RL             | KC6NKK                     | 551              | LM        |
| WE7X/R                        | 1,648         | RL             | W6SPR                      | 70               | LM        |
| NN6U/R                        | 1,406         | RL             |                            |                  |           |
| K6LMN/R                       | 1,105         | RL             | KN6UWK                     | 5,859            | UM        |
| N7EPD                         | 8,322         | SOHP           |                            |                  |           |
| N6UTC                         | 7,018         | SOHP           | Midwest Region             |                  |           |
| K6KLY                         | 5,600         | SOHP           | (Dakota, Midwest, Rocky N  | /lountain and We | st Gulf   |
| N7KSI                         | 3,774         | SOHP           | Divisions; Manitoba and Sa | askatchewan Sect | ions)     |
| W7MEM                         | 2,795         | SOHP           |                            |                  |           |
|                               | -             |                | KCØP/R                     | 11,417           | R         |
| N7IR                          | 6,192         | SOLP           | NØHZO/R                    | 9,064            | R         |
| AL1VE                         | 5,920         | SOLP           | N5ZY/R                     | 4,182            | R         |
| N6ZE                          | 2,337         | SOLP           | AF4JF/R                    | 1,460            | R         |
| N7DB                          | 2,016         | SOLP           | WAØCNS/R                   | 952              | R         |
| KG7PD                         | 1,368         | SOLP           |                            |                  |           |
|                               |               |                | KØLTC/R                    | 1,863            | RL        |
| K6MI                          | 4,320         | SO-ALG-HP      | ABØYM/R                    | 1,333            | RL        |
| KB7IOG                        | 858           | SO-ALG-HP      | W5OC/R                     | 986              | RL        |
| VE7AFZ                        | 616           | SO-ALG-HP      | WA5AZQ/R                   | 750              | RL        |
| VA7SC                         | 4,060         | SO-ALG-LP      | NØLD/R                     | 135,888          | RU        |
| K2GMY                         | 3,422         | SO-ALG-LP      | ABØRX/R                    | 99,862           | RU        |
| VE7HR                         | 1,037         | SO-ALG-LP      | KI5VZJ/R                   | 27,712           | RU        |
| K6MUG                         | 960           | SO-ALG-LP      |                            |                  |           |
| KE7UQL                        | 800           | SO-ALG-LP      | WØAUS (WØZQ, op)           | 47,088           | SOHP      |
|                               |               |                | W5PR                       | 30,960           | SOHP      |
| WQ6D                          | 230           | SOP            | K5ND                       | 18,232           | SOHP      |
| 2023 September VHF Contest    |               | Full Results - | - Version 1.2              | Page 14 of       | 28        |

W7IMC

W7JET

AA6XA

KG7RQJ

WA7PVE

KI6X

AA7EA

WA8ZID

WA2KDL

N7JA

4,095

1,360

116

68

36

1,309

848

450

372

264

SOP-ALG

SOP-ALG

SOP-ALG

SOP-ALG

SOP-ALG

SO3B

SO3B

SO3B

SO3B

SO3B

| K5GZR                     | 16,830             | SOHP          | KG9OV/R          | 28,391                 | RL        |
|---------------------------|--------------------|---------------|------------------|------------------------|-----------|
| N5JS                      | 12,702             | SOHP          | W8ISS/R          | 1,189                  | RL        |
|                           | , -                |               | ,                | ,                      |           |
|                           |                    |               | К9СТ             | 40,320                 | SOHP      |
| WM5L                      | 27,776             | SOLP          | VE3WY            | 20,298                 | SOHP      |
|                           |                    |               |                  |                        |           |
| N5EKO                     | 19,448             | SOLP          | W9EWZ            | 16,000                 | SOHP      |
| WB5TUF                    | 19,240             | SOLP          | VA3IKE           | 14,924                 | SOHP      |
| AJ4F                      | 10,033             | SOLP          | WA8MCD           | 14,678                 | SOHP      |
| KM5RG                     | 7,935              | SOLP          |                  |                        |           |
|                           |                    |               |                  |                        |           |
|                           |                    |               | K2DRH            | 123,384                | SOLP      |
| WØGHZ                     | 5,664              | SO-ALG-HP     | K9MU             | 49,407                 | SOLP      |
| WA5LFD                    | 320                | SO-ALG-HP     | K9KLD            | 43,043                 | SOLP      |
|                           | 520                | JO-ALG-III    | KA9UVY           | 28,860                 | SOLP      |
|                           |                    |               |                  |                        |           |
|                           |                    |               | W9XT             | 7,345                  | SOLP      |
| KAØPQW                    | 5,376              | SO-ALG-LP     |                  |                        |           |
| KAØCRO                    | 1,140              | SO-ALG-LP     | K2YAZ            | 15,232                 | SO-ALG-HP |
| KBØKQI                    | 220                | SO-ALG-LP     | N9LB             | 11,766                 | SO-ALG-HP |
| AEØEE                     | 84                 | SO-ALG-LP     | K8TQK            | 3,713                  | SO-ALG-HP |
| AEØG                      | 30                 | SO-ALG-LP     | VE3KG            | 20                     | SO-ALG-HP |
|                           |                    |               |                  |                        |           |
| NØJK                      | 703                | SOP           | VE3DS            | 24,880                 | SO-ALG-LP |
| NØSUW                     | 243                | SOP           | VE3RWJ           | 1,540                  | SO-ALG-LP |
| 1105010                   | 245                | JUP           |                  |                        |           |
|                           |                    |               | K8BB             | 1,125                  | SO-ALG-LP |
| WD5AGO                    | 3,168              | SOP-ALG       | N9GH             | 54                     | SO-ALG-LP |
|                           |                    |               | VE3RVZ           | 52                     | SO-ALG-LP |
|                           |                    |               |                  |                        |           |
| W5TRL                     | 39,182             | SO3B          |                  |                        |           |
| KFØLKJ                    | 2,336              | SO3B          | KO9A             | 59,714                 | SO3B      |
| N5UM                      | 1,776              | SO3B          | K9PW             | 13,203                 | SO3B      |
| KC7QY                     | 1,530              | SO3B          | KA9FOX           | 9,052                  | SO3B      |
| NØAT                      | 1,456              | SO3B          | WB9TFH           | 6,360                  | SO3B      |
| NyAi                      | 1,430              | 3030          |                  |                        |           |
| NGU                       | 42                 | 60 M 6 35     | W9AV             | 4,032                  | SO3B      |
| NØUI                      | 42                 | SO-ALG-3B     |                  |                        |           |
| KEØOR                     | 2                  | SO-ALG-3B     | N9OBB            | 285                    | SO-ALG-3B |
|                           |                    |               | WO3X             | 20                     | SO-ALG-3B |
| KG5UNK                    | 392                | SOFM          |                  |                        |           |
|                           |                    |               |                  |                        |           |
| K5QE                      | 69,344             | LM            | VA3PHP           | 24                     | SOFM      |
| NØLD                      | 136                | LM            | VE3RGO           | 1                      | SOFM      |
|                           | 100                |               |                  | -                      |           |
| WQØP                      | 25,800             | UM            | W9VW             | 34,638                 | LM        |
| KC5MVZ                    | 5,856              | UM            | K8AEP            | 108                    |           |
| KC5IVIVZ                  | 5,850              | UM            | NOALP            | 108                    | LM        |
|                           |                    |               |                  |                        |           |
|                           |                    |               | WD9EXD           | 75,174                 | UM        |
|                           |                    |               | N8GA             | 72,268                 | UM        |
| Central Region            |                    |               | VE3MIS           | 47,880                 | UM        |
| (Central and Great Lakes  | Divisions; Ontario | East, Ontario | N2BJ             | 25,615                 | UM        |
| North, Ontario South, and |                    |               |                  | ·                      |           |
| ,, <b>.</b> , <b>.</b>    |                    | /             |                  |                        |           |
| VE3OIL/R                  | 97,966             | R             | Southeast Region |                        |           |
| -                         |                    |               | _                | Southeastern Divisions | )         |
| KA9VVQ/R                  | 34,914             | R             |                  | Southeastern DIVISIONS | 1         |
| W9FZ/R                    | 33,728             | R             | /-               |                        | _         |
| K9JK/R                    | 444                | R             | AG4V/R           | 15,128                 | R         |
|                           |                    |               | W5VY/R           | 7,020                  | R         |
|                           |                    |               | KQ4GEX/R         | 1,176                  | R         |
|                           |                    |               |                  |                        |           |

|                |          |                        | AA4ZZ                 | 184,646               | LM                     |
|----------------|----------|------------------------|-----------------------|-----------------------|------------------------|
| KM4OZH/R       | 10,976   | RL                     | W4AD                  | 67,398                | LM                     |
|                |          |                        | N9HF                  | 14,792                | LM                     |
| NV4B/R         | 63,142   | RU                     | NE5BO                 | 6,138                 | LM                     |
| K4CNY/R        | 7,257    | RU                     |                       |                       |                        |
| W8BRY/R        | 4,284    | RU                     | W4NH                  | 49,138                | UM                     |
| - ,            | , -      |                        |                       | -,                    |                        |
| W3IP           | 52,302   | SOHP                   |                       |                       |                        |
| K1HTV          | 24,012   | SOHP                   |                       |                       |                        |
| K3SK           | 23,520   | SOHP                   |                       |                       |                        |
| WA4GPM         | 16,530   | SOHP                   | Northeast Region      |                       |                        |
| N3MK           | 16,128   | SOHP                   | (New England, Hudson  | and Atlantic Division | s;                     |
|                |          |                        | New Brunswick, Nova S | cotia, Prince Edward  | Island and             |
| W4TM           | 12,560   | SOLP                   | Quebec Sections)      |                       |                        |
| AJ6T           | 10,400   | SOLP                   |                       |                       |                        |
| W2UA           | 10,224   | SOLP                   | K2QO/R                | 78,516                | R                      |
| KY4G           | 5,252    | SOLP                   | KF2MR/R               | 73,341                | R                      |
| AA4DD          | 4,264    | SOLP                   | KV2X/R                | 14,196                | R                      |
|                |          |                        | KE2BUY/R              | 9,009                 | R                      |
| WB4WXE         | 3,666    | SO-ALG-HP              | KJ1K/R                | 2,336                 | R                      |
| K4WI           | 1,312    | SO-ALG-HP              |                       |                       |                        |
| W4HLR          | 850      | SO-ALG-HP              | AA2SD/R               | 6,680                 | RL                     |
| N4RA           | 480      | SO-ALG-HP              | KE5HDE/R              | 1,809                 | RL                     |
| N1GC           | 450      | SO-ALG-HP              |                       |                       |                        |
|                |          |                        | N2SLN/R               | 17,884                | RU                     |
| W4RAA          | 5,016    | SO-ALG-LP              | N2XRE/R               | 3,306                 | RU                     |
| KW4G           | 448      | SO-ALG-LP              |                       |                       |                        |
| WA4WZQ         | 63       | SO-ALG-LP              |                       |                       |                        |
| AD4IE          | 6        | SO-ALG-LP              | K1TEO                 | 306,606               | SOHP                   |
| NJ4Q           | 1        | SO-ALG-LP              | N2JMH                 | 165,066               | SOHP                   |
| N2BMN          | 1        | SO-ALG-LP              | N2NT (N2NC, op)       | 79,846                | SOHP                   |
|                | 0.570    |                        | K1KG                  | 46,620                | SOHP                   |
| W4RXR          | 9,570    | SOP                    | WA3DRC                | 37,520                | SOHP                   |
| W2QL           | 432      | SOP                    |                       | 02.000                |                        |
| NO N1/6        |          |                        | N2WK                  | 83,000                | SOLP                   |
| N3AWS          | 4        | SOP-ALG                | NR2C                  | 81,736                | SOLP                   |
|                |          |                        | WB1GQR (W1SJ, op)     | 72,720                | SOLP                   |
|                | 20.700   | CO3D                   | KA2ENE                | 41,934                | SOLP                   |
| KK4MA          | 20,768   | SO3B                   | N2OA                  | 30,149                | SOLP                   |
| KO4ECD         | 13,950   | SO3B                   |                       | 04 612                |                        |
| NS4T           | 10,349   | SO3B                   | W2FU                  | 94,612                | SO-ALG-HP              |
| KD4ADC         | 6,600    | SO3B                   | WZ1V                  | 49,450                | SO-ALG-HP              |
| K3FR           | 3,850    | SO3B                   | K1TR<br>WA1PBU        | 26,896                | SO-ALG-HP              |
| K/N/AC/N/      | 40       |                        |                       | 14,720                | SO-ALG-HP              |
| KW4SW<br>KV4ZY | 49<br>35 | SO-ALG-3B<br>SO-ALG-3B | KR1ST                 | 8,750                 | SO-ALG-HP              |
| KV4ZY          | 35       | SU-ALG-3B              | A E 1 T               | 71 050                |                        |
|                |          |                        | AF1T<br>WB2JAY        | 71,853<br>19,108      | SO-ALG-LP<br>SO-ALG-LP |
| KI4POT         | 102      | SOFM                   | AC1J                  | 5,254                 | SO-ALG-LP              |
| WX4DAT         | 78       | SOFM                   | KØSM                  | 5,254<br>3,675        | SO-ALG-LP<br>SO-ALG-LP |
| KQ4CAX         |          | SOFM                   | KD2HZI                | 3,875                 |                        |
| WB2FKO         | 6        | SOFM                   | Νυζηζι                | 5,207                 | SO-ALG-LP              |
| KG5FHU         | 6<br>6   | SOFM                   | WX3P                  | 960                   | SOP                    |
| NUJETU         | U        | JOLINI                 | N2MAK                 | 264                   | SOP                    |
|                |          |                        |                       | 204                   | 304                    |

| K3GD    | 210     | SOP       | Division Winners            |           |         |
|---------|---------|-----------|-----------------------------|-----------|---------|
| KC3UKC  | 52      | SOP       | <b>Division Winners</b>     |           |         |
| KC2JRQ  | 9       | SOP       | Classic Rover               |           |         |
|         | 5       |           | Atlantic                    | K2QO/R    | 78,516  |
| WB2AMU  | 988     | SOP-ALG   | Central                     | KA9VVQ/R  | 34,914  |
| K2AXX   | 700     | SOP-ALG   | Dakota                      | KCØP/R    | 11,417  |
| NU2H    | 18      | SOP-ALG   | Delta                       | AG4V/R    | 15,128  |
|         |         |           | Hudson                      | KD2TAI/R  | 1,560   |
|         |         |           | Midwest                     | N5ZY/R    | 4,182   |
|         |         |           | New England                 | KJ1K/R    | 2,336   |
|         |         |           | Northwestern                | WA6OEM/R  | 1,668   |
| NF3R    | 11,256  | SO3B      | Roanoke                     | KQ4GEX/R  | 1,176   |
| W3FAY   | 11,220  | SO3B      | Southwestern                | KD6EFQ/R  | 1,649   |
| KD2CDV  | 8,848   | SO3B      | Canada                      | VE3OIL/R  | 97,966  |
| NA2NY   | 7,686   | SO3B      |                             |           |         |
| W1DYJ   | 6,897   | SO3B      |                             |           |         |
|         | 4 400   |           | Limited Rover               | _         |         |
| K3SFX   | 1,430   | SO-ALG-3B | Atlantic                    | AA2SD/R   | 6,680   |
| N1ZN    | 1,232   | SO-ALG-3B | Central                     | KG9OV/R   | 28,391  |
| W1SRH   | 867     | SO-ALG-3B | Dakota                      | KØLTC/R   | 1,863   |
| N1JD    | 680     | SO-ALG-3B | Great Lakes                 | W8ISS/R   | 1,189   |
| WA3SRU  | 559     | SO-ALG-3B | Northwestern                | KA7RRA/R  | 2,268   |
| KB1YNT  | 370     | SOFM      | Pacific                     | NN6U/R    | 1,406   |
| NDITINI | 570     | SOLINI    | Roanoke                     | KM4OZH/R  | 10,976  |
|         |         |           | Rocky Mountain              | ABØYM/R   | 1,333   |
| W2EA    | 84,064  | LM        | Southwestern                | N6GP/R    | 6,902   |
| WW2Y    | 35,046  | LM        | West Gulf                   | W5OC/R    | 986     |
| WA3EKL  | 22,356  | LM        | Canada                      | VA7USD/R  | 340     |
| W3SO    | 22,330  | LM        |                             |           |         |
| W1XM    | 9,776   | LM        | Unlimited Rover             |           |         |
|         | 5,,,,,  | 2.00      | Atlantic                    | N2SLN/R   | 17,884  |
|         |         |           | Midwest                     | NØLD/R    | 135,888 |
| W2SZ    | 368,896 | UM        | Roanoke                     | W8BRY/R   | 4,284   |
| KD2LGX  | 52,824  | UM        | Southeastern                | NV4B/R    | 63,142  |
| KV1J    | 48,688  | UM        | oouncastern                 |           | 00)112  |
| WE1P    | 48,076  | UM        |                             |           |         |
| KE1LI   | 20,000  | UM        | Single Operator, High Power |           |         |
|         |         |           | Atlantic                    | N2JMH     | 165,066 |
|         |         |           | Central                     | K9CT      | 40,320  |
|         |         |           |                             | WØAUS     |         |
|         |         |           | Dakota                      | (WØZQ)    | 47,088  |
|         |         |           | Delta                       | W5ZN      | 5,504   |
|         |         |           | Great Lakes                 | WA8MCD    | 14,678  |
|         |         |           |                             | N2NT      |         |
|         |         |           | Hudson                      | (N2NC,op) | 79,846  |
|         |         |           | Midwest                     | KFØM      | 6,141   |
|         |         |           | New England                 | K1TEO     | 306,606 |
|         |         |           | Northwestern                | N7EPD     | 8,322   |
|         |         |           | Pacific                     | K6KLY     | 5,600   |
|         |         |           | Roanoke                     | W3IP      | 52,302  |
|         |         |           | Rocky Mountain              | KBØNAV    | 4,180   |
|         |         |           | Southeastern                | WA4GPM    | 16,530  |
|         |         |           | Southwestern                | N6UTC     | 7,018   |
|         |         |           | West Gulf                   | W5PR      | 30,960  |
|         |         |           | Canada                      | VE3WY     | 20,298  |
|         |         |           |                             |           |         |

| Single Operator, Low Po | ower            |         | Single Operator, Portab | le             |          |
|-------------------------|-----------------|---------|-------------------------|----------------|----------|
| Atlantic                | N2WK            | 83,000  | Atlantic                | N2MAK          | 264      |
| Central                 | K2DRH           | 123,384 | Dakota                  | NØSUW          | 243      |
| Dakota                  | KØIJR           | 1,972   | Delta                   | W4RXR          | 9,570    |
| Delta                   | AJ6T            | 10,400  | Hudson                  | WX3P           | 960      |
| Great Lakes             | AA8MA           | 4,416   | Midwest                 | NØJK           | 703      |
| Hudson                  | WA2VNV          | 12,696  | Roanoke                 | W2QL           | 432      |
| Midwest                 | NØLL            | 6,097   | Southwestern            | WQ6D           | 230      |
| ivita west              | WB1GQR          | 0,007   | Journestern             | WQOD           | 230      |
| New England             | (W1SJ, op)      | 72,720  | Single Operator, Portab | le Analog Only |          |
| Northwestern            | AL1VE           | 5,920   | Atlantic                | K2AXX          | 700      |
| Pacific                 | N6ORB           | 972     | Delta                   | N3AWS          | 4        |
| Roanoke                 | K4FJW           | 3,465   | Hudson                  | WB2AMU         | 988      |
| Rocky Mountain          | KD5XB           | 2,904   | Northwestern            | WBZANIO        | 4,095    |
| Southeastern            | W4TM            | 12,560  | Pacific                 | AA6XA          | 4,095    |
|                         |                 |         |                         |                |          |
| Southwestern            | N7IR            | 6,192   | Southwestern            | W7JET          | 1,360    |
| West Gulf               | WM5L            | 27,776  | West Gulf               | WD5AGO         | 3,168    |
| Canada                  | VA2IW           | 8,850   |                         |                |          |
|                         |                 |         | Single Operator, 3 Band |                | 44.950   |
|                         |                 |         | Atlantic                | NF3R           | 11,256   |
| Single Operator, Analog |                 |         | Central                 | KO9A           | 59,714   |
| Atlantic                | W2FU            | 94,612  | Dakota                  | KFØLKJ         | 2,336    |
| Central                 | N9LB            | 11,766  | Delta                   | WD5HJF         | 1,287    |
| Dakota                  | WØGHZ           | 5,664   | Great Lakes             | KA8CNI         | 3,600    |
| Delta                   | W4HLR           | 850     | Hudson                  | NA2NY          | 7,686    |
| Great Lakes             | K2YAZ           | 15,232  | Midwest                 | WØDTM          | 416      |
| Hudson                  | K2XA            | 364     | New England             | W1DYJ          | 6,897    |
| New England             | WZ1V            | 49,450  | Northwestern            | WA7PVE         | 1,309    |
| Northwestern            | KB7IOG          | 858     | Pacific                 | N5KO           | 189      |
| Pacific                 | K6MI            | 4,320   | Roanoke                 | KK4MA          | 20,768   |
| Roanoke                 | N4RA            | 480     | Rocky Mountain          | KC7QY          | 1,530    |
| Southeastern            | WB4WXE          | 3,666   | Southeastern            | NS4T           | 10,349   |
| West Gulf               | WA5LFD          | 320     | Southwestern            | KI6X           | 848      |
| Canada                  | VE7AFZ          | 616     | West Gulf               | W5TRL          | 39,182   |
|                         |                 |         | Canada                  | VA2CY          | 1,848    |
| Single Operator, Analog | Only, Low Power |         | Single Operator, 3 Band | , Analog Only  |          |
| Atlantic                | KØSM            | 3,675   | Atlantic                | K3SFX          | 1,430    |
| Central                 | N9GH            | 54      | Central                 | N9OBB          | 285      |
| Dakota                  | KAØPQW          | 5,376   | Dakota                  | KEØOR          | 2        |
| Great Lakes             | K8BB            | 1,125   | Great Lakes             | WO3X           | 20       |
| Hudson                  | WB2JAY          | 19,108  | Hudson                  | WV2C           | 112      |
| Midwest                 | AEØG            | 30      | Midwest                 | NØUI           | 42       |
| New England             | AF1T            | 71,853  | New England             | N1ZN           | 1,232    |
| Northwestern            | N7VGO           | 336     | Northwestern            | N7QOZ          | 3,087    |
| Pacific                 | K2GMY           | 3,422   | Pacific                 | KG7D           | 360      |
| Roanoke                 | WA4WZQ          | 63      | Roanoke                 | KU4ZY          | 35       |
|                         | KBØKQI          | 220     | Southeastern            | KW4SW          | 35<br>49 |
| Rocky Mountain          |                 |         |                         |                |          |
| Southeastern            | W4RAA           | 5,016   | Southwestern            | KN7Y           | 884      |
| Southwestern            | K6MUG           | 960     |                         |                |          |
| Canada                  | VE3DS           | 24,880  |                         |                |          |

| Single Operator, FM Only |        |         |
|--------------------------|--------|---------|
| Delta                    | KE5WMA | 2       |
| New England              | KB1YNT | 306     |
| Roanoke                  | KI4POT | 102     |
| Southeastern             | KG5FHU | 6       |
| Southeastern             | WB2FKO | 6       |
| Southwestern             | K6RJF  | 1,056   |
| West Gulf                | KG5UNK | 392     |
| Canada                   | VA3PHP | 24      |
| Limited Multioperator    |        |         |
| Atlantic                 | W2EA   | 84,064  |
| Central                  | W9VW   | 34,638  |
| Dakota                   | NØEO   | 2,840   |
| Delta                    | NE5BO  | 6,138   |
| Great Lakes              | K8AEP  | 108     |
| New England              | W1XM   | 9,776   |
| Roanoke                  | AA4ZZ  | 184,646 |
| Rocky Mountain           | WØVB   | 3,640   |
| Southeastern             | N9HF   | 14,792  |
| Southwestern             | WO1S   | 1,092   |
| West Gulf                | K5QE   | 107,124 |
| Unlimited Multioperator  |        |         |
| Atlantic                 | KD2LGX | 52,824  |
| Central                  | WD9EXD | 75,174  |
| Great Lakes              | N8GA   | 72,268  |
| Hudson                   | WE1P   | 48,076  |
| Midwest                  | WQØP   | 25,800  |
| New England              | W2SZ   | 368,896 |
| Southeastern             | W4NH   | 49,138  |
| Southwestern             | KN6UWK | 5,859   |
| West Gulf                | KC5MVZ | 5,856   |
| Canada                   | VE3MIS | 47,880  |

| QSO and Mult         | Leaders |
|----------------------|---------|
| <b>Classic Rover</b> |         |
| 50 MHz QSOs          |         |
| K2QO/R               | 93      |
| VE3OIL/R             | 77      |
| KA9VVQ/R             | 53      |
| W9FZ/R               | 52      |
| KF2MR/R              | 51      |
|                      |         |
| 50 MHz Mults         |         |
| N5ZY/R               | 26      |
| VE3OIL/R             | 22      |
| K2QO/R               | 20      |
| KA9VVQ/R             | 17      |
| W9FZ/R               | 16      |
|                      |         |
| 144 MHz QSOs         | ·       |
| VE3OIL/R             | 98      |
| K2QO/R               | 81      |
| KF2MR/R              | 64      |
| KA9VVQ/R             | 58      |
| W9FZ/R               | 56      |
|                      |         |
| 144 MHz Mults        |         |
| VE3OIL/R             | 32      |
| K2QO/R               | 22      |
| KF2MR/R              | 20      |
| KA9VVQ/R             | 15      |
| W9FZ/R               | 14      |
|                      | ľ       |
| 222 MHz QSOs         |         |
| K2QO/R               | 55      |
| KF2MR/R              | 47      |
| KV2X/R               | 45      |
| KA9VVQ/R             | 41      |
| W9FZ/R               | 41      |
|                      |         |
| 222 MHz Mults        |         |
| K2QO/R               | 14      |
| VE3OIL/R             | 11      |
| W5VY/R               | 10      |
| AG4V/R               | 9       |
| ,                    |         |

|               | 0  |
|---------------|----|
| KF2MR/R       | 9  |
|               |    |
| 432 MHz QSOs  |    |
| K2QO/R        | 64 |
| KV2X/R        | 52 |
| KA9VVQ/R      | 51 |
| W9FZ/R        | 51 |
| KF2MR/R       | 48 |
|               |    |
| 432 MHz Mults |    |
| K2QO/R        | 14 |
| VE3OIL/R      | 11 |
| KA9VVQ/R      | 10 |
| W9FZ/R        | 10 |
| KF2MR/R       | 9  |
|               |    |
| 902 MHz QSOs  |    |
| KF2MR/R       | 40 |
| KA9VVQ/R      | 33 |
| W9FZ/R        | 32 |
| K2QO/R        | 29 |
| VE3OIL/R      | 24 |
|               |    |
| 902 MHz Mults |    |
| K2QO/R        | 9  |
| KF2MR/R       | 8  |
| VE3OIL/R      | 8  |
| KA9VVQ/R      | 7  |
| W9FZ/R        | 7  |
|               |    |
| 1.2 GHz QSOs  |    |
| KF2MR/R       | 41 |
| K2QO/R        | 37 |
| KA9VVQ/R      | 34 |
| W9FZ/R        | 34 |
| KV2X/R        | 26 |
|               |    |
| 1.2 Ghz Mults |    |
| K2QO/R        | 10 |
| KF2MR/R       | 8  |
| VE3OIL/R      | 8  |
| KA9VVQ/R      | 6  |
| KCØP/R        | 6  |
|               |    |

| NØHZO/R       | 6        |
|---------------|----------|
| W5VY/R        | 6        |
| W9FZ/R        | 6        |
| VV9FZ/K       | 0        |
|               | -        |
| 2.3 GHz QSOs  |          |
| KF2MR/R       | 31       |
| K2QO/R        | 17       |
| VE3OIL/R      | 12       |
| KE2BUY/R      | 10       |
| KD2TAI/R      | 6        |
|               |          |
| 2.3 GHz Mults |          |
| VE3OIL/R      | 7        |
| K2QO/R        | 6        |
| KF2MR/R       | 5        |
| KE2BUY/R      | 3        |
| AG4V/R        | 2        |
| KJ1K/R        | 2        |
|               |          |
| 3.4 GHz QSOs  |          |
| KF2MR/R       | 17       |
| K2QO/R        | 14       |
| KE2BUY/R      | 8        |
| KD2TAI/R      | 6        |
| VE3OIL/R      | 4        |
|               |          |
| 3.4 GHz Mults |          |
| K2QO/R        | 5        |
| KF2MR/R       | 4        |
| KE2BUY/R      | 3        |
| VE3OIL/R      | 3        |
| AF4JF/R       | 1        |
| KD2TAI/R      | 1        |
| KJ1K/R        | 1        |
| WAØCNS/R      | 1        |
| , -,          |          |
|               |          |
| 5.7 Ghz QSOs  | I        |
| KF2MR/R       | 15       |
| ,<br>VE3OIL/R | 12       |
| KD2TAI/R      | 6        |
| KE2BUY/R      | 6        |
| AF4JF/R       | 1        |
|               | <u> </u> |

| K200/P             | 1  |
|--------------------|----|
| K2QO/R             |    |
| KJ1K/R<br>WAØCNS/R | 1  |
| WAØCNS/R           |    |
|                    |    |
| 5.7 Ghz Mults      | 0  |
| VE3OIL/R           | 8  |
| KF2MR/R            | 4  |
| KE2BUY/R           | 3  |
| AF4JF/R            | 1  |
| K2QO/R             | 1  |
| KD2TAI/R           | 1  |
| KJ1K/R             | 1  |
| WAØCNS/R           | 1  |
|                    |    |
| 10 Ghz QSOs        |    |
| KF2MR/R            | 19 |
| VE3OIL/R           | 7  |
| KE2BUY/R           | 6  |
| K9JK/R             | 4  |
| AF4JF/R            | 3  |
| KA9VVQ/R           | 3  |
| N7DA/R             | 3  |
| W9FZ/R             | 3  |
| WAØCNS/R           | 3  |
|                    |    |
| 10 Ghz Mults       | -  |
| VE3OIL/R           | 7  |
| KE2BUY/R           | 3  |
| KF2MR/R            | 3  |
| AF4JF/R            | 2  |
| K9JK/R             | 2  |
| KA9VVQ/R           | 2  |
| N7DA/R             | 2  |
| W9FZ/R             | 2  |
|                    |    |
| 24 Ghz QSOs        | !  |
| VE3OIL/R           | 7  |
|                    |    |
| 24 Ghz Mults       |    |
| VE3OIL/R           | 7  |
|                    | /  |
| 123 GHz QSOs       | I  |
| VE3OIL/R           | 7  |
| VLJUIL/N           | /  |

| 123 GHz Mults           |     |
|-------------------------|-----|
| VE3OIL/R                | 7   |
|                         |     |
| Light QSOs              |     |
| VE3OIL/R                | 7   |
|                         |     |
| Light Mults             |     |
| VE3OIL/R                | 7   |
| Limited Dever           |     |
| Limited Rover           |     |
| 50 MHz QSOs             | 75  |
| AA2SD/R                 | 75  |
| N6GP/R                  | 63  |
| KM4OZH/R                | 62  |
| KG9OV/R                 | 46  |
| ABØYM/R                 | 34  |
|                         |     |
| 50 MHz Mults            |     |
| KG9OV/R                 | 24  |
| ABØYM/R                 | 20  |
| W5OC/R                  | 18  |
| AA2SD/R                 | 16  |
| KM4OZH/R                | 16  |
|                         |     |
| 144 MHz QSOs            | 100 |
| KG9OV/R                 | 133 |
| N6GP/R                  | 63  |
| KM4OZH/R                | 61  |
| KE5HDE/R                | 55  |
| KA7RRA/R                | 48  |
|                         |     |
| 144 MHz Mults           | 22  |
| KG9OV/R                 | 33  |
| KE5HDE/R                | 21  |
| KM4OZH/R                | 13  |
| W8ISS/R                 | 13  |
| AA2SD/R                 | 10  |
|                         |     |
| 222 MHz QSOs<br>KG9OV/R | 27  |
|                         | 27  |
| N6GP/R                  |     |
| KM4OZH/R                | 23  |
| AA2SD/R                 | 16  |

| K6LMN/R       | 14  |
|---------------|-----|
|               |     |
| 222 MHz Mults |     |
| KG9OV/R       | 10  |
| KM4OZH/R      | 6   |
| N6GP/R        | 6   |
| AA2SD/R       | 5   |
| K6LMN/R       | 4   |
|               |     |
| 432 MHz QSOs  |     |
| KG9OV/R       | 45  |
| N6GP/R        | 32  |
| KM4OZH/R      | 29  |
| WE7X/R        | 23  |
| KA7RRA/R      | 22  |
|               |     |
| 432 MHz Mults |     |
| KG9OV/R       | 15  |
| KM4OZH/R      | 6   |
| N6GP/R        | 6   |
| AA2SD/R       | 5   |
| KA6KEN/R      | 5   |
| VA7OTC/R      | 5   |
|               |     |
|               |     |
| Unlimited Rov | er  |
| 50 MHz QSOs   |     |
| NV4B/R        | 152 |
| NØLD/R        | 106 |
| ABØRX/R       | 57  |
| N2SLN/R       | 48  |
| KI5VZJ/R      | 44  |
|               |     |
| 50 MHz Mults  |     |
| NV4B/R        | 56  |
| NØLD/R        | 24  |
| N2SLN/R       | 17  |
| K4CNY/R       | 14  |
| ABØRX/R       | 11  |
|               |     |
| 144 MHz QSOs  |     |
| NV4B/R        | 91  |
| NØLD/R        | 78  |
|               |     |

| ABØRX/R       | 64 |
|---------------|----|
| N2SLN/R       | 50 |
| W8BRY/R       | 50 |
|               |    |
| 144 MHz Mults |    |
| NV4B/R        | 24 |
| N2SLN/R       | 18 |
| NØLD/R        | 12 |
| W8BRY/R       | 11 |
| ABØRX/R       | 10 |
|               |    |
| 222 MHz QSOs  |    |
| NØLD/R        | 64 |
| ABØRX/R       | 57 |
| NV4B/R        | 50 |
| KI5VZJ/R      | 43 |
| N2SLN/R       | 40 |
|               |    |
| 222 MHz Mults |    |
| NV4B/R        | 16 |
| N2SLN/R       | 14 |
| ABØRX/R       | 10 |
| NØLD/R        | 10 |
| KI5VZJ/R      | 9  |
|               |    |
| 432 MHz QSOs  |    |
| NØLD/R        | 70 |
| ABØRX/R       | 57 |
| NV4B/R        | 51 |
| N2SLN/R       | 44 |
| KI5VZJ/R      | 41 |
|               |    |
| 432 MHz Mults |    |
| NV4B/R        | 15 |
| N2SLN/R       | 14 |
| ABØRX/R       | 10 |
| NØLD/R        | 10 |
| KI5VZJ/R      | 9  |
|               |    |
| 902 MHz QSOs  |    |
| NØLD/R        | 61 |
| ABØRX/R       | 52 |
| KI5VZJ/R      | 40 |

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|---|--|
| N2XRE/R   | 3  |
|   |  |
| 5.7 GHz Mults   |  |
| ABØRX/R   | 9  |
| NØLD/R  | 9  |
| N2XRE/R   | 2  |
|   |  |
|   |  |
| 10 GHz QSOs   | 10   |
| NØLD/R  | 10   |
| ABØRX/R   | 9  |
| W8BRY/R   | 1  |
|   |  |
| 10 GHz Mults  |  |
| NØLD/R  | 10   |
| ABØRX/R   | 9  |
| W8BRY/R   | 1  |
|   |  |
| Single Operato  | r High                                     |
| Power   |  |
| 50 MHz QSOs   |  |
| K1TEO   | 269  |
| W5PR  | 243  |
| K5GZR   | 172  |
| К9СТ  | 157  |
| N2NT (N2NC, op)   | 154  |
|   |  |
| 50 MHz Mults  |  |
| W5PR  | 129  |
| K5GZR   | 99   |
| K5ND  | 91   |
| K1TEO   |  |
| KITEO   | X4 I                                       |
|   | 84<br>76                                   |
|   | 76   |
| K9CT  | 76<br>76                                   |
| К9ОМ  | 76   |
| К9ОМ  | 76<br>76                                   |
| K9OM<br>144 MHz QSOs  | 76<br>76<br>76                             |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT                                      | 76<br>76<br>76<br>243                      |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT<br>K1TEO                             | 76<br>76<br>76<br>243<br>197               |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT                                      | 76<br>76<br>76<br>243<br>197<br>145        |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT<br>K1TEO                             | 76<br>76<br>76<br>243<br>197               |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT<br>K1TEO<br>N2NT (N2NC, OP)          | 76<br>76<br>76<br>243<br>197<br>145        |
| K9OM<br><b>144 MHz QSOs</b><br>W3XTT<br>K1TEO<br>N2NT (N2NC, OP)<br>W9EWZ | 76<br>76<br>76<br>243<br>197<br>145<br>127 |

| 144 MHz Mults   |  |
|---|--|
| W3XTT   | 79   |
| W9EWZ   | 53   |
| N2JMH   | 52   |
| VE3WY   | 50   |
| K1TEO   | 49   |
|   |  |
| 222 MHz QSOs  |  |
| K1TEO   | 75   |
| N2JMH   | 53   |
| N2NT (N2NC, op)   | 43   |
| WØAUS (WØZQ,op)   | 29   |
| N6UTC   | 28   |
|   |  |
| 222 MHz Mults   |  |
| K1TEO   | 37   |
| N2NT (N2NC, op)   | 29   |
| N2JMH   | 18   |
| K3SK  | 16   |
| N1JEZ   | 15   |
| NIJEZ   | 15   |
|   |  |
|   |  |
| 432 MHz QSOs  | 107  |
| K1TEO   | 107  |
| K1TEO<br>N2JMH  | 57   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)   | 57<br>52   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW   | 57<br>52<br>43   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)   | 57<br>52   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW   | 57<br>52<br>43   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW   | 57<br>52<br>43   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP   | 57<br>52<br>43   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br>432 MHz Mults  | 57<br>52<br>43<br>40   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO  | 57<br>52<br>43<br>40<br>39   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW  | 57<br>52<br>43<br>40<br>39<br>32   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW  | 57<br>52<br>43<br>40<br>39<br>32<br>26   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW<br>N2NT (N2NC, op)<br>W9EWZ  | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW<br>N2NT (N2NC, op)<br>W9EWZ<br>VA3IKE  | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW<br>N2NT (N2NC, op)<br>W9EWZ<br>VA3IKE<br>W3IP  | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW<br>N2NT (N2NC, op)<br>W9EWZ<br>VA3IKE  | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21   |
| K1TEO<br>N2JMH<br>N2NT (N2NC, op)<br>W7JW<br>W3IP<br><b>432 MHz Mults</b><br>K1TEO<br>W7JW<br>N2NT (N2NC, op)<br>W9EWZ<br>VA3IKE<br>W3IP<br>W3IP                                  | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21<br>21<br>21                               |
| К1ТЕО   N2JMH   N2NT (N2NC, op)   W7JW   W3IP   432 MHz Mults   K1TEO   W7JW   N2NT (N2NC, op)   W9EWZ   VA3IKE   W3IP   902 MHz QSOs   K1TEO   N2NT (N2NC, op)                   | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21<br>21<br>21<br>21<br>31<br>31             |
| К1ТЕО   N2JMH   N2NT (N2NC, op)   W7JW   W3IP   A32 MHz Mults   K1TEO   W7JW   W1V   W3IP   A32 MHz Mults   W3IP   YA3IKE   W3IP   902 MHz QSOs   K1TEO   N2JMH   WØAUS(wøzq, op) | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21<br>21<br>21<br>21<br>31<br>31<br>31<br>22 |
| К1ТЕО   N2JMH   N2NT (N2NC, op)   W7JW   W3IP   432 MHz Mults   K1TEO   W7JW   N2NT (N2NC, op)   W3IP   VA3IKE   W3IP   902 MHz QSOs   K1TEO   N2JMH                              | 57<br>52<br>43<br>40<br>39<br>32<br>26<br>23<br>21<br>21<br>21<br>21<br>31<br>31             |

| N11E7            | E  |
|------------------|----|
| N1JEZ            | 6  |
| 902 MHz Mults    | 24 |
| K1TEO            | 21 |
| N2JMH            | 11 |
| WØAUS (WØZQ, op) | 11 |
| N1JEZ            | 6  |
| K1KG             | 5  |
|                  |    |
| 1.2 GHz QSOs     | -  |
| K1TEO            | 43 |
| N2JMH            | 39 |
| WØAUS (WØZQ, op) | 21 |
| K1KG             | 13 |
| N1JEZ            | 11 |
|                  |    |
| 1.2 GHz Mults    |    |
| K1TEO            | 25 |
| N2JMH            | 12 |
| WØAUS (WØZQ, op) | 9  |
| K1KG             | 8  |
| W3CJK            | 8  |
|                  |    |
| 2.3 GHz QSOs     |    |
| K1TEO            | 15 |
| N2JMH            | 12 |
| K1KG             | 11 |
| WA3DRC           | 6  |
| KC3BVL           | 5  |
| N1JEZ            | 5  |
|                  |    |
| 2.3 GHz Mults    | •  |
| K1TEO            | 12 |
| K1KG             | 8  |
| KC3BVL           | 5  |
| N1JEZ            | 5  |
| N2GHR            | 4  |
| N2JMH            | 4  |
| WA3DRC           | 4  |
|                  |    |
| 3.4 GHz QSOs     | I  |
| N2JMH            | 18 |
| K1KG             | 5  |
| K2TER            | 4  |
| NZILN            | 4  |

| WA3DRC  | 1                    |
|---|----------------------|
| 3.4 GHz Mults   |                      |
| N2JMH   | 7                    |
| K1KG  | 4                    |
| K2TER   | 3                    |
| WA3DRC  | 1                    |
|   |                      |
| 5.7 GHz QSOs  |                      |
| N2JMH   | 16                   |
| K1KG  | 6                    |
| K1TEO   | 5                    |
| K2TER   | 3                    |
| KC3BVL  | 1                    |
| WØAUS (WØZQ, op)  | 1                    |
|   |                      |
| 5.7 GHz Mults   |                      |
| N2JMH   | 7                    |
| K1KG  | 5                    |
| K1TEO   | 5<br>5<br>2          |
| K2TER   | 2                    |
| KC3BVL  | 1                    |
| WØAUS (WØZQ, op)  | 1                    |
|   |                      |
| 10 GHz QSOs   |                      |
| N2JMH   | 17                   |
| K2TER   | 5                    |
| K1KG  | 4                    |
| K1TEO   | 3                    |
| W3IP  | 2                    |
|   |                      |
| 10 GHz Mults  |                      |
| N2JMH   | 5                    |
| K1KC  | 4                    |
| K1KG  |                      |
| K1KG<br>K2TER   | 3                    |
|   | 3                    |
| K2TER   |                      |
| K2TER<br>K1TEO  | 2                    |
| K2TER<br>K1TEO  | 2<br>2               |
| K2TER<br>K1TEO<br>W3IP  | 2<br>2               |
| K2TER<br>K1TEO<br>W3IP<br>Single Operator                                 | 2<br>2               |
| K2TER<br>K1TEO<br>W3IP<br>Single Operator<br>Power                        | 2<br>2               |
| K2TER<br>K1TEO<br>W3IP<br>Single Operator<br>Power<br>50 MHz QSOs         | 2<br>2<br>Low        |
| K2TER<br>K1TEO<br>W3IP<br>Single Operator<br>Power<br>50 MHz QSOs<br>WM5L | 2<br>2<br>Low<br>203 |

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| N5EKO             | 167 |
|-------------------|-----|
|                   |     |
| 50 MHz Mults      |     |
| WM5L              | 110 |
| WB5TUF            | 99  |
| K2DRH             | 91  |
| N5EKO             | 91  |
| AJ4F              | 79  |
|                   |     |
| 144 MHz QSOs      |     |
| WB1GQR (W1SJ,op)  | 158 |
| NR2C              | 120 |
| K2DRH             | 119 |
| K9KLD             | 105 |
| KA2ENE            | 94  |
|                   |     |
| 144 MHz Mults     |     |
| K2DRH             | 56  |
| K9KLD             | 50  |
| NR2C              | 45  |
| KA9UVY            | 40  |
| AJ6T              | 33  |
| N2WK              | 33  |
|                   |     |
| 222 MHz QSOs      |     |
| KA2ENE            | 41  |
| WB1GQR (W1SJ,     | 41  |
| op)               | 20  |
| K2DRH             | 38  |
| N2WK              | 36  |
| N2OA              | 24  |
| NR2C              | 24  |
|                   |     |
| 222 MHz Mults     |     |
| K2DRH             | 21  |
| WB1GQR (W1SJ, op) | 16  |
| AJ6T              | 14  |
| N2WK              | 11  |
| K9MU              | 10  |
|                   |     |
| 432 MHz QSOs      |     |
| K2DRH             | 51  |
| N2WK              | 48  |
| WB1GQR (W1SJ, op) | 48  |

| KA2ENE                     | 44       |
|----------------------------|----------|
| N2OA                       | 33       |
| 432 MHz Mults              |          |
| K2DRH                      | 26       |
| K9KLD                      | 19       |
| N2WK                       | 17       |
| WB1GQR (W1SJ, op)          | 17       |
| KA9UVY                     | 14       |
|                            |          |
| 902 MHz QSOs               |          |
| N2WK                       | 22       |
| NR2C                       | 19       |
| KA2ENE                     | 18       |
| K9MU                       | 17       |
| K2DRH                      | 9        |
| N2OA                       | 9        |
| WB1GQR (W1SJ, op)          | 9        |
| N2WK                       | 22       |
|                            |          |
| 902 MHz Mults              |          |
| K9MU                       | 9        |
| WB1GQR (W1SJ, op)          | 8        |
| KA2ENE                     | 7        |
| N2WK                       | 7        |
| NR2C                       | 6        |
|                            | <u> </u> |
| 1.2 GHz QSOs               |          |
| N2WK                       | 24       |
| K2DRH                      | 23       |
| KA2ENE                     | 23       |
| NR2C                       | 20       |
|                            |          |
| N2OA                       | 19       |
|                            |          |
| 1.2 GHz Mults              | 12       |
| K2DRH<br>WB1GQR (W1SJ, op) | 13       |
|                            | 10       |
| K9MU                       | 9        |
| KA2ENE                     | 7        |
| N2WK                       | 6        |
| NR2C                       | 6        |
| VA2IW                      | 6        |
|                            |          |
|                            |          |
|                            |          |

| 2.3 GHz QSOs             |    |
|--------------------------|----|
| N2WK                     | 16 |
| NR2C                     | 15 |
| N2OA                     | 11 |
| WB1GQR (W1SJ, op)        | 7  |
| W3GAD                    | 4  |
|                          |    |
| 2.3 GHz Mults            |    |
| WB1GQR (W1SJ, op)        | 7  |
| N2WK                     | 6  |
| NR2C                     | 6  |
| N2OA                     | 4  |
| W3GAD                    | 3  |
|                          |    |
| 3.4 GHz QSOs             |    |
| N2WK                     | 11 |
| N2OA                     | 7  |
| WB1GQR (W1SJ, op)        | 4  |
| WA3NUF                   | 1  |
|                          | -  |
| 3.4 GHz Mults            |    |
| N2WK                     | 5  |
| N2OA                     | 4  |
| WB1GQR (W1SJ, op)        | 4  |
| WA3NUF                   | 1  |
| WASHOT                   | -  |
| 5.7 GHz QSOs             |    |
| N2WK                     | 11 |
| NR2C                     | 6  |
| N2OA                     | 2  |
| NZON                     | ~  |
| 5.7 GHz Mults            |    |
| N2WK                     | 5  |
| NR2C                     | 3  |
| N2OA                     | 1  |
| NZOA                     |    |
|                          |    |
| 10 GHz QSOs<br>NR2C      | 16 |
| N2WK                     | 13 |
| N20A                     | 13 |
| N2OA<br>N2MKT            | 1  |
|                          | 1  |
| NØUK<br>W2CCC (K2CS, op) |    |
| ννζίει (κζες, ορ)        | 1  |

| 10 GHz Mults     |      |
|------------------|------|
| NR2C             | 7    |
| N2OA             | 5    |
| N2WK             | 5    |
| N2MKT            | 1    |
| NØUK             | 1    |
| W2CCC (K2CS, op) | 1    |
|                  |      |
| 24 GHz QSOs      |      |
| N2WK             | 2    |
|                  |      |
| 24 GHz Mults     |      |
| N2WK             | 1    |
|                  |      |
| Single Op High P | ower |
| Analog Only      |      |
| 50 MHz QSOs      |      |
| WZ1V             | 92   |
| K1TR             | 60   |
| WA1PBU           | 54   |
| WB4WXE           | 50   |
| W2FU             | 49   |
|                  |      |
| 50 MHz Mults     |      |
| K4WI             | 32   |
| WB4WXE           | 32   |
| WZ1V             | 30   |
| W4HLR            | 25   |
| K1TR             | 21   |
|                  |      |
| 144 MHz QSOs     |      |
| WZ1V             | 89   |
| K1TR             | 67   |
| W2FU             | 59   |
| KR1ST            | 35   |
| WA1PBU           | 33   |
|                  |      |
| 144 MHz Mults    |      |
| WZ1V             | 28   |
| W2FU             | 23   |
| K1TR             | 19   |
| K8TQK            | 17   |
| K2YAZ            | 13   |
|                  |      |

| W2FU48WZ1V45K1TR32KR1ST20N9LB20220120WZ1V23W2FU17K1TR16K2YAZ10W1GHZ10W2TV55W2FU55W2FU55W2FU55W2FU55W2FU55W2FU55W2FU55W2FU55W2FU55W2FU28K1TR40WA1PBU28K2YAZ26W2FU117K1TR14K2YAZ13N9LB10K2YAZ15N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ15N9LB6WX1PBU6WX1PBU6WA1PBU6 </th <th>222 MHz QSOs</th> <th></th>   | 222 MHz QSOs  |    |
|--|---------------|----|
| K1TR32KR1ST20N9LB20222 MH2 Mults23WZ1V23W2FU17K1TR16KR1ST11K2YAZ10W1GHZ55W2FU50K1TR40W2FU55W2FU50K1TR40W2FU50K1TR40W2FU26W2FU26W2FU26W2FU23W2FU17K1TR14K2YAZ13W2FU17K1TR14K2YAZ13N9LB10K2FU30K2YAZ15M9LB15WØGHZ9WA1PBU6W2FU11N9LB15WØGHZ9WA1PBU6W2FU30K2YAZ15M02 MH2 Mults15WØGHZ9WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1   | W2FU          | 48 |
| KR1ST20N9LB20N9LB2022017222 MHz Mults23W2TV23W2FU17K1TR16KR1ST11K2YAZ10W2TV55W2TV55W2TV55W2TV55W2TV50K1TR40WA1PBU28K2YAZ26W2TV23W2TV23W2TV23W2TV23W2TV23W2FU11K1TR14K2YAZ13N9LB10W2FU30K2YAZ15WQGHZ9WA1PBU6W2FU11N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6WA1PBU  | WZ1V          | 45 |
| N9LB20 <b>J222 MHz Mults</b> WZ1V23W2FU17K1TR16KR1ST11K2YAZ10W1GHZ10WZ1V55W2FU50K1TR40W2FU50K1TR40W2FU28K2YAZ26W2TV23W2FU10W2TV23W2FU11K1TR14K2YAZ13W2FU11K1TR14K2YAZ13N9LB10W2FU30K2YAZ15WQGHZ9WA1PBU6W2FU11N9LB11N9LB88K2YAZ7WA1PBU6W1GHZ4   | K1TR          | 32 |
| 222 MHz MultsWZ1V23W2FU17K1TR16KR1ST11K2YAZ10W1GHZ10MTGHZ50W2FU50W2FU50W2FU28K1TR40WA1PBU28K2YAZ26WZ1V23W2FU11K1TR14K2YAZ13W2FU13W2FU13W2FU13W2FU13N9LB10SQ2 MHz QSOS15W2FU30K2YAZ15MA1PBU6W2FU11N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6W1GHZ4  | KR1ST         | 20 |
| WZ1V23W2FU17K1TR16KR1ST11K2YAZ10W1GHZ10H32 MHz QSOs50W2FU55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23W2FU10K1TR14K2YAZ13W2FU17K1TR14K2YAZ13N9LB10SQ2 MHz QSOs15W2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6SQ2 MHz Mults11N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6 <trtr>WA1PBU6<td>N9LB</td><td>20</td></trtr>   | N9LB          | 20 |
| WZ1V23W2FU17K1TR16KR1ST11K2YAZ10W1GHZ10H32 MHz QSOs50W2FU55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23W2FU10K1TR14K2YAZ13W2FU17K1TR14K2YAZ13N9LB10SQ2 MHz QSOs15W2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6SQ2 MHz Mults11N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6 <trtr>WA1PBU6<td></td><td></td></trtr>   |               |    |
| W2FU117K1TR16KR1ST11K2YAZ10W1GHZ10M1GHZ10M2TN55W2FU50K1TR40WA1PBU28K2YAZ26MZ1V23W2TV23W2FU11M2TN23W2FU11K1TR14K2YAZ13W2FU11K1TR14K2YAZ13N9LB10W2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6M2FU11N9LB8K2YAZ15WØLB11N9LB8K2YAZ7WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6W1GHZ4   | 222 MHz Mults |    |
| K1TR16KR1ST11K2YAZ10W1GHZ10 <b>432 MHz QSOs</b> 55WZ1V55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23WZ1V23WZ1V23W2FU17K1TR14K2YAZ13W2FU13N9LB10S2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6S02 MHz Mults11N9LB15WØGHZ9WA1PBU6S2FU11N9LB8K2YAZ7WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6WA1PBU6WA1PBU6W1GHZ4   | WZ1V          | 23 |
| KR1ST111K2YAZ100W1GHZ10 <b>432 MHz QSOs</b> 55WZ1V55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23WZ1V23WZ1V23WZ1V23WZ1V23WZ1V11K1TR14K2YAZ13N9LB100SQ2 MHz QSOs10W2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6SQ2 MHz Mults11N9LB15WØGHZ9WA1PBU6K2YAZ7WA1PBU6WA1PBU <t< td=""><td>W2FU</td><td>17</td></t<>  | W2FU          | 17 |
| K2YAZ10W1GHZ10 <b>432 MHz QSOs</b> 55WZ1V55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23WZ1V23WZ1V23WZ1V23W2FU117K1TR14K2YAZ13N9LB10M2FU30K2YAZ15N9LB15WØGHZ9WA1PBU6M2FU11N9LB15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ7WA1PBU6 <td< td=""><td>K1TR</td><td>16</td></td<>   | K1TR          | 16 |
| W1GHZ10432 MHz QSOsWZ1V55W2FU50K1TR40WA1PBU28K2YAZ26WZ1V23WZ1V23WZ1V23W2FU117K1TR14K2YAZ13W2FU11K1TR14K2YAZ13N9LB10W2FU30K2YAZ15MQGHZ9WA1PBU6M2FU111N9LB88K2YAZ15WØGHZ9WA1PBU6W2FU11N9LB8K2YAZ15MA1PBU6WA1PBU6 <tr <td="">&lt;</tr>   | KR1ST         | 11 |
|  |               |    |
| 432 MHz QSOs     WZ1V   55     W2FU   50     K1TR   40     WA1PBU   28     K2YAZ   26     MZ1V   23     WZ1V   23     WZ1V   23     WZ1V   23     MZ1V   23     WZ1V   23     WZ1V   23     WZ1V   23     WZ1V   17     K1TR   14     K2YAZ   13     N9LB   10     M2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     M2FU   11     N9LB   8     W2FU   11     N9LB   8     W2FU   11     N9LB   8     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     WA1PBU   6     WA1PBU   6     WA1PBU   6 </td <td>K2YAZ</td> <td>10</td> | K2YAZ         | 10 |
| WZ1V55W2FU50K1TR40WA1PBU28K2YAZ26432 MHz Mults1WZ1V23W2FU17K1TR14K2YAZ13N9LB10K2YAZ30K2YAZ15W2FU30K2YAZ15W9GHZ9WA1PBU6M2FU111N9LB15WØGHZ9WA1PBU6K2YAZ11N9LB88K2YAZ7WA1PBU6W1GHZ4   | W1GHZ         | 10 |
| WZ1V55W2FU50K1TR40WA1PBU28K2YAZ26432 MHz Mults1WZ1V23W2FU17K1TR14K2YAZ13N9LB10K2YAZ30K2YAZ15W2FU30K2YAZ15W9GHZ9WA1PBU6M2FU111N9LB15WØGHZ9WA1PBU6K2YAZ11N9LB88K2YAZ7WA1PBU6W1GHZ4   |               |    |
| W2FU50K1TR40WA1PBU28K2YAZ26432 MHz Mults1WZ1V23W2FU17K1TR14K2YAZ13N9LB10W2FU30K2YAZ15W2FU15W2FU6W2FU15M2FU15W2FU11N9LB15WØGHZ9WA1PBU6S2FU111N9LB8K2YAZ7WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6WA1PBU6W1GHZ4  | 432 MHz QSOs  |    |
| K1TR   40     WA1PBU   28     K2YAZ   26     432 MHz Mults   1     WZ1V   23     WZ1V   23     WZFU   17     K1TR   14     K2YAZ   13     W2FU   13     N9LB   10     902 MHz QSOs   1     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     902 MHz Mults   11     N9LB   15     WØGHZ   9     WA1PBU   6     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     WA1PBU   6     W1GHZ   4  | WZ1V          | 55 |
| WA1PBU   28     K2YAZ   26     432 MHz Mults   | W2FU          | 50 |
| K2YAZ   26     432 MHz Mults      WZ1V   23     WZ1V   23     W2FU   17     K1TR   14     K2YAZ   13     N9LB   10     902 MHz QSOs   1     W2FU   30     K2YAZ   15     MQGHZ   9     WA1PBU   6     M2FU   111     N9LB   11     MQGHZ   7     WA1PBU   6     K2YAZ   13     M2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     WA1PBU   6     WA1PBU   4   | K1TR          | 40 |
| 432 MHz Mults     WZ1V   23     W2FU   17     K1TR   14     K2YAZ   13     N9LB   10     902 MHz QSOs   1     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     W2FU   11     N9LB   11     WØGHZ   7     WA1PBU   6     W2FU   14     MU2FU   11     MU2FU   11     MU2FU   11     MU2FU   6     W2FU   11     MU2FU   11     MU2FU   11     MU2FU   4  | WA1PBU        | 28 |
| WZ1V 23   W2FU 17   K1TR 14   K2YAZ 13   N9LB 10   902 MHz QSOs 1   W2FU 30   K2YAZ 15   N9LB 15   WØGHZ 9   WA1PBU 6   W2FU 11   N9LB 8   K2YAZ 7   W2FU 6   W2FU 14  | K2YAZ         | 26 |
| WZ1V 23   W2FU 17   K1TR 14   K2YAZ 13   N9LB 10   902 MHz QSOs 1   W2FU 30   K2YAZ 15   N9LB 15   WØGHZ 9   WA1PBU 6   W2FU 11   N9LB 8   K2YAZ 7   W2FU 6   W2FU 14  |               |    |
| W2FU   17     K1TR   14     K2YAZ   13     N9LB   10     902 MHz QSOs   1     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     W2FU   11     N9LB   11     N9LB   6     W2FU   11     MM1PBU   6     K2YAZ   7     WA1PBU   6     WA1PBU   4  | 432 MHz Mults |    |
| K1TR   14     K2YAZ   13     N9LB   10     902 MHz QSOs   10     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     W1GHZ   4   | WZ1V          | 23 |
| K2YAZ   13     N9LB   10     902 MHz QSOs   10     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     W2FU   11     N9LB   11     N9LB   6     W2FU   11     M2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     WA1PBU   6     WA1PBU   4  | W2FU          | 17 |
| N9LB   10     902 MHz QSOs   10     W2FU   30     K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6     902 MHz Mults   11     N9LB   8     K2YAZ   7     WA1PBU   6     W2FU   112     N9LB   8     K2YAZ   7     WA1PBU   6     W2FU   14  | K1TR          | 14 |
| 902 MHz QSOs     902 FU     30     K2YAZ     15     N9LB     15     WØGHZ     9     WA1PBU     6     902 MHz Mults     W2FU     N9LB     K2YAZ     Y02 MHz Mults     W2FU     M1PBU     63     K2YAZ     7     WA1PBU     64     N9LB     8     K2YAZ     7     WA1PBU     6     W1GHZ   | K2YAZ         | 13 |
| W2FU 30   K2YAZ 15   N9LB 15   WØGHZ 9   WA1PBU 6   902 MHz Mults 11   W2FU 111   N9LB 8   K2YAZ 7   WA1PBU 6   W2FU 16   N9LB 8   K2YAZ 7   WA1PBU 6   W1GHZ 4  | N9LB          | 10 |
| W2FU 30   K2YAZ 15   N9LB 15   WØGHZ 9   WA1PBU 6   902 MHz Mults 11   W2FU 111   N9LB 8   K2YAZ 7   WA1PBU 6   W2FU 16   N9LB 8   K2YAZ 7   WA1PBU 6   W1GHZ 4  |               |    |
| K2YAZ   15     N9LB   15     WØGHZ   9     WA1PBU   6 <b>902 MHz Mults</b> 11     W2FU   111     N9LB   8     K2YAZ   7     WA1PBU   6     W1GHZ   4   | 902 MHz QSOs  |    |
| N9LB   15     WØGHZ   9     WA1PBU   6 <b>902 MHz Mults</b> 11     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     W1GHZ   4   | W2FU          | 30 |
| WØGHZ   9     WA1PBU   6     902 MHz Mults   11     W2FU   11     N9LB   8     K2YAZ   7     WA1PBU   6     W1GHZ   4  | K2YAZ         | 15 |
| WA1PBU     6       902 MHz Mults     11       W2FU     11       N9LB     8       K2YAZ     7       WA1PBU     6       W1GHZ     4  | N9LB          | 15 |
| 902 MHz Mults       W2FU     11       N9LB     8       K2YAZ     7       WA1PBU     6       W1GHZ     4  | WØGHZ         | 9  |
| W2FU     11       N9LB     8       K2YAZ     7       WA1PBU     6       W1GHZ     4  | WA1PBU        | 6  |
| W2FU     11       N9LB     8       K2YAZ     7       WA1PBU     6       W1GHZ     4  |               |    |
| N9LB     8       K2YAZ     7       WA1PBU     6       W1GHZ     4  | 902 MHz Mults |    |
| K2YAZ7WA1PBU6W1GHZ4  | W2FU          | 11 |
| WA1PBU 6<br>W1GHZ 4  | N9LB          |    |
| W1GHZ 4  | K2YAZ         | 7  |
|  | WA1PBU        | 6  |
| WØGHZ 4  | W1GHZ         | 4  |
|  | WØGHZ         | 4  |

| 1.2 GHz QSOs  |    |
|---------------|----|
| W2FU          | 33 |
| K2YAZ         | 19 |
| WZ1V          | 17 |
| K1TR          | 16 |
| N9LB          | 16 |
|               |    |
| 1.2 GHz Mults | •  |
| W2FU          | 13 |
| WZ1V          | 11 |
| K1TR          | 10 |
| K2YAZ         | 9  |
| N9LB          | 8  |
|               |    |
| 2.3 GHz QSOs  | •  |
| W2FU          | 26 |
| WA1PBU        | 4  |
| K1TR          | 3  |
| K6MI          | 1  |
| KB7IOG        | 1  |
| WØGHZ         | 1  |
|               |    |
| 2.3 GHz Mults |    |
| W2FU          | 10 |
| WA1PBU        | 4  |
| K1TR          | 2  |
| K6MI          | 1  |
| KB7IOG        | 1  |
| WØGHZ         | 1  |
|               |    |
| 3.4 GHz QSOs  | -  |
| W2FU          | 16 |
|               |    |
| 3.4 GHz Mults |    |
| W2FU          | 5  |
|               |    |
| 5.7 GHz QSOs  |    |
| W2FU          | 9  |
| K6MI          | 1  |
| WØGHZ         | 1  |
|               |    |
| 5.7 GHz Mults |    |
| W2FU          | 5  |
| W2FU          | 5  |

| K6MI            | 1      |
|-----------------|--------|
| WØGHZ           | 1      |
|                 |        |
| 10 GHz QSOs     |        |
| W2FU            | 18     |
| N9LB            | 2      |
| VE7AFZ          | 2<br>2 |
| WØGHZ           | 2      |
| K6MI            | 1      |
|                 |        |
| 10 GHz Mults    |        |
| W2FU            | 6      |
| K6MI            | 1      |
| N9LB            | 1      |
| VE7AFZ          | 1      |
| WØGHZ           | 1      |
|                 |        |
| 24 GHz QSOs     |        |
| K6MI            | 1      |
|                 |        |
| 24 GHz QSOs     |        |
| K6MI            | 1      |
|                 |        |
| 123 GHz QSOs    |        |
| K6MI            | 1      |
|                 |        |
| 123 GHz QSOs    | -      |
| K6MI            | 1      |
|                 |        |
| Single Op Low P | ower   |
| Analog Only     |        |
| 50 MHz QSOs     |        |
| AF1T            | 55     |
| KAØPQW          | 47     |
| WB2JAY          | 32     |
| AC1J            | 24     |
| W4RAA           | 23     |
|                 |        |
| 50 MHz Mults    |        |
| KAØPQW          | 25     |
| AF1T            | 23     |
| W4RAA           | 14     |
| WB2JAY          | 12     |
|                 |        |

| K2GMY         | 10 |
|---------------|----|
|               |    |
| 144 MHz QSOs  |    |
| AF1T          | 69 |
| VE3RWJ        | 63 |
| WB2JAY        | 56 |
| VE3DS         | 52 |
| WB2CUT        | 45 |
|               |    |
| 144 MHz Mults |    |
| VE3DS         | 22 |
| AF1T          | 21 |
| WB2JAY        | 15 |
| WB2CUT        | 14 |
| KAØPQW        | 11 |
| KD2HZI        | 11 |
|               |    |
| 222 MHz QSOs  |    |
| AF1T          | 43 |
| VE3DS         | 28 |
| WB2JAY        | 26 |
| AC1J          | 15 |
| VA7SC         | 13 |
|               |    |
| 222 MHz Mults | -  |
| AF1T          | 21 |
| VE3DS         | 16 |
| WB2JAY        | 12 |
| AC1J          | 7  |
| KC1V          | 7  |
|               |    |
| 432 MHz QSOs  |    |
| AF1T          | 53 |
| WB2JAY        | 39 |
| VE3DS         | 36 |
| VE3RWJ        | 35 |
| K2GMY         | 20 |
| W4RAA         | 20 |
|               |    |
| 432 MHz Mults |    |
| AF1T          | 20 |
| VE3DS         | 16 |
| WB2JAY        | 12 |
|               |    |

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| AC1J          | 7  |
|---------------|----|
| VA7SC         | 7  |
| W4RAA         | 7  |
|               |    |
| 902 MHz QSOs  |    |
| AF1T          | 16 |
| VE3DS         | 11 |
| W4RAA         | 7  |
| WB2JAY        | 6  |
| KAØCRO        | 3  |
| WB2VVV        | 3  |
|               |    |
| 902 MHz Mults |    |
| AF1T          | 10 |
| VE3DS         | 5  |
| WB2JAY        | 5  |
| W4RAA         | 3  |
| WB2VVV        | 3  |
|               |    |
| 1.2 GHz QSOs  |    |
| AF1T          | 23 |
| VE3DS         | 14 |
| WB2JAY        | 12 |
| AC1J          | 9  |
| W4RAA         | 7  |
|               |    |
| 1.2 GHz Mults |    |
| AF1T          | 10 |
| WB2JAY        | 8  |
| VE3DS         | 7  |
| AC1J          | 5  |
| K2GMY         | 3  |
| KD2HZI        | 3  |
| VA7SC         | 3  |
|               |    |
| 2.3 GHz QSOs  | ·  |
| AF1T          | 12 |
| VE3DS         | 8  |
| WB2JAY        | 4  |
| KØSM          | 2  |
| WB2VVV        | 1  |
|               |    |
|               |    |
|               |    |

| 2.3 GHz Mults | 7      |
|---------------|--------|
| AF1T          |        |
| VE3DS         | 4      |
| WB2JAY        | 4      |
| KØSM          | 1      |
| WB2VVV        | 1      |
|               |        |
| 3.4 GHz QSOs  |        |
| VE3DS         | 6      |
| AF1T          | 5<br>2 |
| KØSM          | 2      |
|               |        |
| 3.4 GHz Mults |        |
| AF1T          | 4      |
| VE3DS         | 4      |
| KØSM          | 1      |
|               |        |
| 5.7 GHz QSOs  |        |
| AF1T          | 5      |
| KØSM          | 1      |
|               |        |
| 5.7 GHz Mults |        |
| AF1T          | 4      |
| кøsм          | 1      |
| F -           |        |
| 10 GHz QSOs   |        |
| KØSM          | 10     |
| ,<br>K2UA     | 8      |
| AF1T          | 7      |
| VA7SC         | 2      |
| VE7HR         | 2      |
|               | -      |
| 10 GHz Mults  |        |
| AF1T          | 5      |
| K2UA          | 4      |
| KØSM          | 4      |
| VA7SC         | 1      |
| VE7HR         | 1      |
| v L / I II\   | 1      |
| 24 GHz QSOs   |        |
| AF1T          | 1      |
| K2UA          | 1      |
| KØSM          | 1      |
| NUSIVI        | Ŧ      |

| 24 GHz Mults     |        |
|------------------|--------|
| AF1T             | 1      |
| K2UA             | 1      |
| кøsм             | 1      |
|                  |        |
| 47 GHz QSOs      |        |
| AF1T             | 1      |
|                  |        |
| 47 GHz Mults     |        |
| AF1T             | 1      |
|                  |        |
| 123 GHz QSOs     |        |
| AF1T             | 1      |
|                  |        |
| 123 GHz Mults    |        |
| AF1T             | 1      |
|                  |        |
| Light QSOs       |        |
| AF1T             | 1      |
|                  |        |
| Light Mults      |        |
| AF1T             | 1      |
|                  |        |
| Single Op Portak | ole    |
| 50 MHz QSOs      |        |
| W4RXR            | 64     |
| NØJK             | 35     |
| W2QL             | 26     |
| WX3P             | 18     |
| NØSUW            | 15     |
|                  |        |
| 50 MHz Mults     |        |
| W4RXR            | 34     |
| NØJK             | 18     |
| WX3P             | 13     |
| K3GD             | 7      |
| W2QL             | 7<br>7 |
| XE2YWB           | 7      |
|                  |        |
| 144 MHz QSOs     |        |
| W4RXR            | 23     |
| W2QL             | 13     |
| WQ6D             | 11     |
|                  |        |

| K3GD                          | 8      |
|-------------------------------|--------|
| N2MAK                         | 8      |
| INZIVIAK                      | 0      |
|                               |        |
| <b>144 MHz Mults</b><br>W4RXR | 9      |
| K3GD                          | 8      |
| N2MAK                         |        |
|                               | 5<br>5 |
| W2QL                          | 5      |
| WQ6D                          | 5      |
|                               |        |
| 222 MHz QSOs<br>W4RXR         | 15     |
|                               | 15     |
| WX3P                          | 3      |
| N2MAK                         | 1      |
|                               |        |
| 222 MHz Mults<br>W4RXR        | 6      |
| WX3P                          | 3      |
| N2MAK                         | 1      |
|                               | 1      |
| 432 MHz QSOs                  |        |
| W4RXR                         | 22     |
| N2MAK                         | 3      |
| NØSUW                         | 3      |
| WX3P                          | 3      |
| KC2JRQ                        | 1      |
| NØJK                          | 1      |
| WQ6D                          | 1      |
|                               | _      |
| 432 MHz Mults                 |        |
| W4RXR                         | 8      |
| N2MAK                         | 3      |
| WX3P                          | 3      |
| NØSUW                         | 2      |
| KC2JRQ                        | 1      |
| NØJK                          | 1      |
| WQ6D                          | 1      |
|                               |        |
| 902 MHz QSOs                  |        |
| W4RXR                         | 3      |
|                               |        |
| 902 MHz Mults                 |        |
|                               |        |

| 1.2 GHz QSOs  |          |
|---------------|----------|
| WQ6D          | 3        |
| WX3P          | 1        |
|               |          |
| 1.2 GHz Mults |          |
| WQ6D          | 2        |
| WX3P          | 1        |
|               |          |
| Light QSOs    |          |
| WX3P          | 1        |
|               |          |
| Light Mults   |          |
| WX3P          | 1        |
|               |          |
| Single Operat | or       |
| Portable, Ana | log Only |
| 50 MHz QSOs   |          |
| W7IMC         | 16       |
| WB2AMU        | 12       |
| WD5AGO        | 11       |
| W7JET         | 9        |
| KG7RQJ        | 2        |
| N3AWS         | 2        |
| NU2H          | 2        |
|               |          |
| 50 MHz Mults  |          |
| WB2AMU        | 6        |
| W7IMC         | 4        |
| WD5AGO        | 4        |
| W7JET         | 3        |
| N3AWS         | 2        |
|               |          |
| 144 MHz QSOs  |          |
| W7IMC         | 72       |
| AA6XA         | 15       |
| K2AXX         | 13       |
| WB2AMU        | 13       |
| KG7RQJ        | 11       |
| WD5AGO        | 11       |
|               |          |
|               |          |
|               |          |
|               |          |
|               |          |

| 144 MHz Mults | _      |
|---------------|--------|
| WB2AMU        | 7      |
| W7IMC         | 4      |
| WD5AGO        | 4      |
| K2AXX         | 3      |
| W7JET         | 3      |
|               |        |
| 222 MHz QSOs  |        |
| W7IMC         | 21     |
| W7JET         | 7      |
| WB2AMU        | 5      |
| N7JA          | 1      |
|               |        |
| 222 MHz Mults |        |
| W7JET         | 3      |
| W7IMC         |        |
| WB2AMU        | 2<br>2 |
| N7JA          | 1      |
|               |        |
| 432 MHz QSOs  |        |
| W7IMC         | 49     |
| WD5AGO        | 12     |
| W7JET         | 10     |
| K2AXX         | 9      |
| WB2AMU        | 9      |
|               |        |
| 432 MHz Mults |        |
| WB2AMU        | 4      |
| WD5AGO        | 4      |
| K2AXX         | 3      |
| W7IMC         | 3      |
| W7JET         | 3      |
|               |        |
| 902 MHz QSOs  |        |
| W7IMC         | 8      |
| W7JET         | 3      |
|               |        |
| 902 MHz Mults |        |
| W7IMC         | 2      |
| W7JET         | 1      |
|               |        |
|               |        |
|               |        |
|               |        |

| 1.2 GHz QSOs    |     |
|-----------------|-----|
| W7IMC           | 8   |
| WD5AGO          | 8   |
| W7JET           | 7   |
| N7JA            | 1   |
|                 |     |
| 1.2 GHz Mults   |     |
| WD5AGO          | 4   |
| W7JET           | 3   |
| N7JA            | 1   |
| W7IMC           | 1   |
|                 |     |
| 2.3 GHz QSOs    | -   |
| WD5AGO          | 8   |
|                 |     |
| 2.3 GHz Mults   |     |
| WD5AGO          | 4   |
|                 |     |
| 5.7 GHz QSOs    |     |
| WD5AGO          | 8   |
|                 |     |
| 5.7 GHz Mults   |     |
| WD5AGO          | 4   |
|                 |     |
| 10 GHz QSOs     |     |
| K2AXX           | 10  |
|                 |     |
| 10 GHz Mults    |     |
| K2AXX           | 4   |
|                 |     |
| Single Operator | 3   |
| Band            |     |
| 50 MHz QSOs     |     |
| W5TRL           | 248 |
| КО9А            | 187 |
| KK4MA           | 132 |
| NS4T            | 103 |
| W3FAY           | 103 |
|                 |     |
| 50 MHz Mults    |     |
| W5TRL           | 119 |
| KK4MA           | 82  |
| ко9а            | 75  |

| NCAT            | 64  |
|-----------------|-----|
| NS4T            | 61  |
| KA9FOX          | 52  |
|                 |     |
| 144 MHz QSOs    |     |
| KO9A            | 125 |
| KO4ECD          | 91  |
| K9PW            | 85  |
| NF3R            | 73  |
| W3FAY           | 69  |
|                 |     |
| 144 MHz Mults   |     |
| KO9A            | 47  |
| K9PW            | 38  |
| KK4MA           | 28  |
| KO4ECD          | 28  |
| NA2NY           | 25  |
| NF3R            | 25  |
|                 |     |
| 432 MHz QSOs    |     |
| KO9A            | 51  |
| KD2CDV          | 24  |
| KO4ECD          | 22  |
| WB9TFH          | 21  |
| VE3IMU          | 16  |
|                 |     |
| 432 MHz Mults   |     |
| KO9A            | 24  |
| KD2CDV          | 13  |
| KO4ECD          | 13  |
| WB9TFH          | 13  |
| W3FAY           | 9   |
|                 |     |
| Single Operator | 3   |
| Band, Analog Or | nly |
| 50 MHz QSOs     |     |
| К7СХ            | 34  |
| N7QOZ           | 29  |
| N1ZN            | 26  |
| W1SRH           | 20  |
| K3SFX           | 18  |
| WA3SRU          | 18  |
|                 |     |
|                 |     |
|                 |     |

| 50 MHz Mults  |        |
|---------------|--------|
| N1ZN          | 10     |
| NIJD          | 9      |
| W1SRH         | 8      |
| K3SFX         | °<br>7 |
| K3SFA<br>K7CX | 7      |
|               | 7      |
| KW4SW         | 7      |
| N7QOZ         | /      |
|               |        |
| 144 MHz QSOs  |        |
| N7QOZ         | 52     |
| К7СХ          | 40     |
| W1SRH         | 29     |
| WA3SRU        | 24     |
| WB7FJG        | 22     |
|               |        |
| 144 MHz Mults |        |
| K3SFX         | 9      |
| W1SRH         | 8      |
| WA3SRU        | 8      |
| K7CX          | 7      |
| KG7D          | 7      |
| KN7Y          | 7      |
| N1JD          | 7      |
| N1ZN          | 7      |
| N7QOZ         | 7      |
| N9OBB         | 7      |
|               |        |
| 432 MHz QSOs  |        |
| N7QOZ         | 34     |
| K7CX          | 22     |
| K3SFX         | 13     |
| KN7Y          | 10     |
| WB7FJG        | 8      |
|               |        |
| 432 MHz Mults |        |
| N7QOZ         | 7      |
| K3SFX         | 6      |
| K7CX          | 6      |
| KN7Y          | 5      |
| N1ZN          | 5      |
|               |        |
|               |        |
|               |        |

| Single Op FM Only |    |
|-------------------|----|
| 50 MHz QSOs       | ,  |
| KG5UNK            | 5  |
| AF6GM             | 3  |
| KB1YNT            | 3  |
| K6RJF             | 2  |
| WX4DAT            | 1  |
|                   | -  |
| 50 MHz Mults      |    |
| AF6GM             | 2  |
| K6RJF             | 2  |
| KB1YNT            | 2  |
| KG5UNK            | 1  |
| WX4DAT            | 1  |
|                   |    |
| 144 MHz QSOs      |    |
| K6RJF             | 22 |
| AF6GM             | 21 |
| KB1YNT            | 19 |
| KG5UNK            | 16 |
| K1CT              | 15 |
|                   |    |
| 144 MHz Mults     |    |
| AF6GM             | 5  |
| K6RJF             | 5  |
| KB1YNT            | 5  |
| N6MX              | 5  |
| K1CT              | 4  |
| KI4POT            | 4  |
| N6DRE             | 4  |
| W6JBR             | 4  |
| WX4DAT            | 4  |
|                   |    |
| 222 MHz QSOs      |    |
| K1CT              | 10 |
| K6RJF             | 10 |
| N6DRE             | 8  |
| KG5UNK            | 3  |
| KO6BT             | 2  |
|                   |    |
|                   |    |
|                   |    |
|                   |    |

| 222 MHz Mults   |   |
|---|---|
| K1CT  | 4   |
| K6RJF   | 4   |
| N6DRE   | 4   |
| KG5UNK  | 2   |
| КО6ВТ   | 2<br>2  |
|   |   |
| 432 MHz QSOs  |   |
| AF6GM   | 16  |
| K1CT  | 13  |
| K6RJF   | 11  |
| KG5UNK  | 11  |
| N6MX  | 9   |
|   |   |
| 432 MHz Mults   |   |
| AF6GM   | 5   |
| K1CT  | 5   |
| K6RJF   | 5<br>5<br>5   |
| N6DRE   | 4   |
| N6MX  | 4   |
|   |   |
| Limited MultiOpe  | rator   |
| 50 MHz QSOs   |   |
|   |   |
| AA4ZZ   | 285   |
|   | 285<br>239  |
| AA4ZZ   |   |
| AA4ZZ<br>W4AD   | 239   |
| AA4ZZ<br>W4AD<br>W2EA   | 239<br>228  |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE   | 239<br>228<br>189   |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE   | 239<br>228<br>189   |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL   | 239<br>228<br>189   |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br>50 MHz Mults   | 239<br>228<br>189<br>135  |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ   | 239<br>228<br>189<br>135<br>110   |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE   | 239<br>228<br>189<br>135<br>110<br>104  |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD   | 239<br>228<br>189<br>135<br>110<br>104<br>82                                  |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW   | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74                            |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW   | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74                            |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW<br>W2EA   | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74                            |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW<br>W2EA<br><b>144 MHz QSOs</b>                          | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74<br>65                      |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW<br>W2EA<br><b>144 MHz QSOs</b><br>AA4ZZ                 | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74<br>65<br>239               |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW<br>W2EA<br><b>144 MHz QSOs</b><br>AA4ZZ<br>W2EA         | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74<br>65<br>239<br>176        |
| AA4ZZ<br>W4AD<br>W2EA<br>K5QE<br>WA3EKL<br><b>50 MHz Mults</b><br>AA4ZZ<br>K5QE<br>W4AD<br>W9VW<br>W2EA<br><b>144 MHz QSOs</b><br>AA4ZZ<br>W2EA<br>W4AD | 239<br>228<br>189<br>135<br>110<br>104<br>82<br>74<br>65<br>239<br>176<br>139 |

| 144 MHz Mults |    |
|---------------|----|
| K5QE          | 82 |
| AA4ZZ         | 59 |
| W3SO          | 49 |
| W9VW          | 47 |
| W2EA          | 42 |
|               |    |
| 222 MHz QSOs  |    |
| AA4ZZ         | 53 |
| W2EA          | 27 |
| W4AD          | 25 |
| WW2Y          | 20 |
| KC6NKK        | 2  |
|               |    |
| 222 MHz Mults |    |
| AA4ZZ         | 35 |
| W2EA          | 18 |
| WW2Y          | 14 |
| W4AD          | 10 |
| KC6NKK        | 2  |
|               |    |
| 432 MHz QSOs  |    |
| AA4ZZ         | 73 |
| W2EA          | 63 |
| W4AD          | 31 |
| W9VW          | 23 |
| WA3EKL        | 23 |
| 432 MHz Mults |    |
| AA4ZZ         | 38 |
| W2EA          | 23 |
| K5QE          | 23 |
| -             |    |
| W9VW          | 15 |
| WW2Y          | 14 |
| 1.2 GHz QSOs  | 1  |
| K5QE          | 34 |
| N9HF          | 22 |
| WO1S          | 7  |
| W013<br>W1XM  | 5  |
| W1XW<br>W9VW  | 2  |
| VV J V VV     | 2  |
|               |    |
|               |    |

| 1.2 GHz Mults     | 31          |  |
|-------------------|-------------|--|
| K5QE              |             |  |
| N9HF              | 21          |  |
| WO1S              | 5           |  |
| W1XM              | 2           |  |
| W9VW              | 2           |  |
|                   |             |  |
| Unlimited Multiop | erator      |  |
| 50 MHz QSOs       |             |  |
| W2SZ              | 316         |  |
| W4NH              | 198         |  |
| KV1J              | 179         |  |
| N8GA              | 176         |  |
| KE1LI             | 150         |  |
|                   |             |  |
| 50 MHz Mults      | · · · · · · |  |
| W4NH              | 110         |  |
| W2SZ              | 83          |  |
| N8GA              | 82          |  |
| WD9EXD            | 81          |  |
| KV1J              | 78          |  |
|                   |             |  |
| 144 MHz QSOs      |             |  |
| W2SZ              | 243         |  |
| WE1P              | 162         |  |
| N8GA              | 145         |  |
| KE1LI             | 91          |  |
| KV1J              | 89          |  |
|                   |             |  |
| 144 MHz Mults     | <u> </u>    |  |
| N8GA              | 66          |  |
| W2SZ              | 48          |  |
| WE1P              | 41          |  |
| WD9EXD            | 38          |  |
| KD2LGX            | 37          |  |
|                   | 57          |  |
| 222 MHz QSOs      |             |  |
| W2SZ              | 64          |  |
| WD9EXD            | 26          |  |
| KD2LGX            | 25          |  |
| WE1P              | 23          |  |
| KN6UWK            | 19          |  |
| NINDU WK          | 19          |  |
| WQØP              | 19          |  |

| 222 MHz Mults |     |  |
|---------------|-----|--|
| W2SZ          | 25  |  |
| WD9EXD        | 22  |  |
| WE1P          | 15  |  |
| N8GA          | 12  |  |
| KV1J          | 11  |  |
| WQØP          | 11  |  |
|               |     |  |
| 432 MHz QSOs  |     |  |
| W2SZ          | 119 |  |
| VE3MIS        | 47  |  |
| WD9EXD        | 42  |  |
| KD2LGX        | 38  |  |
| WE1P          | 26  |  |
|               |     |  |
| 432 MHz Mults |     |  |
| W2SZ          | 30  |  |
| WD9EXD        | 29  |  |
| VE3MIS        | 23  |  |
| KD2LGX        | 18  |  |
| N8GA          | 14  |  |
| WE1P          | 14  |  |
|               |     |  |
| 902 MHz QSOs  |     |  |
| W2SZ          | 37  |  |
| KD2LGX        | 12  |  |
| WQØP          | 10  |  |
| WD9EXD        | 8   |  |
| KV1J          | 5   |  |
| VE3MIS        | 5   |  |
|               |     |  |
| 902 MHz Mults |     |  |
| W2SZ          | 20  |  |
| WD9EXD        | 8   |  |
| KD2LGX        | 6   |  |
| KV1J          | 4   |  |
| VE3MIS        | 4   |  |
| WQØP          | 4   |  |
|               |     |  |
| 1.2 GHz QSOs  |     |  |
| W2SZ          | 38  |  |
| KD2LGX        | 14  |  |
| WD9EXD        | 9   |  |
|               |     |  |

| WE1P          | 9      |  |
|---------------|--------|--|
| KN6UWK        | 9<br>7 |  |
| WQØP          | 7      |  |
|               |        |  |
| 1.2 GHz Mults |        |  |
| W2SZ          | 17     |  |
| WD9EXD        | 9      |  |
| WE1P          | 9      |  |
| KD2LGX        | 5      |  |
| KV1J          | 5      |  |
|               |        |  |
| 2.3 GHz QSOs  |        |  |
| W2SZ          | 25     |  |
| KD2LGX        | 5<br>2 |  |
| KV1J          | 2      |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 2.3 GHz Mults |        |  |
| W2SZ          | 14     |  |
| KD2LGX        | 4      |  |
| KV1J          | 2      |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 3.4 GHz QSOs  |        |  |
| W2SZ          | 23     |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 3.4 GHz Mults |        |  |
| W2SZ          | 12     |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 5.7 GHz QSOs  |        |  |
| W2SZ          | 19     |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 5.7 GHz Mults |        |  |
| W2SZ          | 12     |  |
| VE3MIS        | 1      |  |
|               |        |  |
| 10 GHz QSOs   |        |  |
| VE3MIS        | 17     |  |
| WQØP          | 6      |  |
| KN6UWK        | 5      |  |
|               |        |  |

| W2SZ          | 1 |  |
|---------------|---|--|
|               |   |  |
| 10 GHz Mults  |   |  |
| VE3MIS        | 8 |  |
| KN6UWK        | 4 |  |
| WQØP          | 4 |  |
| W2SZ          | 1 |  |
|               |   |  |
| 24 GHz QSOs   |   |  |
| VE3MIS        | 1 |  |
|               |   |  |
| 24 GHz Mults  |   |  |
| VE3MIS        | 1 |  |
|               |   |  |
| 47 GHz QSOs   |   |  |
| VE3MIS        | 2 |  |
|               |   |  |
| 47 GHz Mults  |   |  |
| VE3MIS        | 1 |  |
|               |   |  |
| 75 GHz QSOs   |   |  |
| VE3MIS        | 1 |  |
|               |   |  |
| 75 GHz Mults  |   |  |
| VE3MIS        | 1 |  |
|               |   |  |
| 123 GHz QSOs  |   |  |
| VE3MIS        | 2 |  |
|               |   |  |
| 123 GHz Mults |   |  |
| VE3MIS        | 1 |  |
|               |   |  |

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