

1977 CQ World-Wide DX Contest Phone Results

BY LARRY BROCKMAN†, N6AR (ex-WA6EPQ), and BOB COX*, K3EST

As evening dawned on the Western Hemisphere on a late October day, a certain excitement filled the air. Rumors had it that this was the day that goblins would rise out of nowhere and fill the night air. To be sure, those goblins did appear, but only at the dawning of the CQ W.W. phone contest, and only then to fill the airwaves. A record 2,100 logs, (up 7% from 1976) were received here for this year's bash. As active participants, we can attest to the pandemonium that burst out everywhere on the h.f. bands.

In particular, the 10 meter activity this year was incredible compared to last year. Yet, the potential for ten meters in the next few years has only just surfaced.

Altogether, there were 2 new world records, 11 continental records, and 4 USA records set in this year's competition. Yet, the big story is the EA8CR operation—a six band multi-multi effort that still leaves echoes in our ears. They were all over the place, literally everywhere on all the bands, with booming signals to boot. After all the dust had settled, they had racked up 21 million points, and that will take some doing to beat in the future. PVRC members are reported to be game for the task, possibly as soon as next year.

Single Operator All Band Winners

Our congratulations to Clarke Greene, K1JX, for his second successive first place finish in the single operator, all band,

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worldwide category, with a fine 6.0 M score from PJ9CG. Running second with 5.1 M was Chip, K7JA, who took the helm at KG6SW. Chip has now moved to Japan and you can be sure he has plans for challenging Clarke in the future. Charles Jones, now at 9L1SL/A after several years at 6W8, finished third with an impressive 3.7M score, followed by HC1BU and VP2VDH.

It was W3WJD, operated by Walt, WA3LRO, who grabbed top honors in the USA all band, single operator category. Walt set a new USA record at 2.38 M, just barely edging the highly coveted 2.35 M record set by Gordon Marshall, W6RR, in 1972. Walt used a little West coast style operating, as he padded his substantial multiplier with a phenomenal JA run on 21 MHz. Running second for the second year in a row was Larry, N7DD, followed by East coasters N1GL, K2BU, and K1DG.

Multi-Operator, Single Transmitter Winners

This proved to be a big year for this category, ever and ever becoming more popular throughout the world. Four new continental records were set by a highly competitive group of contesters. FMØFC, staffed by fellow CQ WW Contest Committee member, John Kanode, N4MM and K4GKD, N8II, FM7AV, and K7ZZ, came out on top at 6.8 M, just under the World record set in 1974 by PY2CAB. Nevertheless, they set a new North American record. Second in this category was 4L6M (another prefix for UF6) at 6.0 M, operated by George, UA6APW and the UK6APA contingent. Congratulations on a



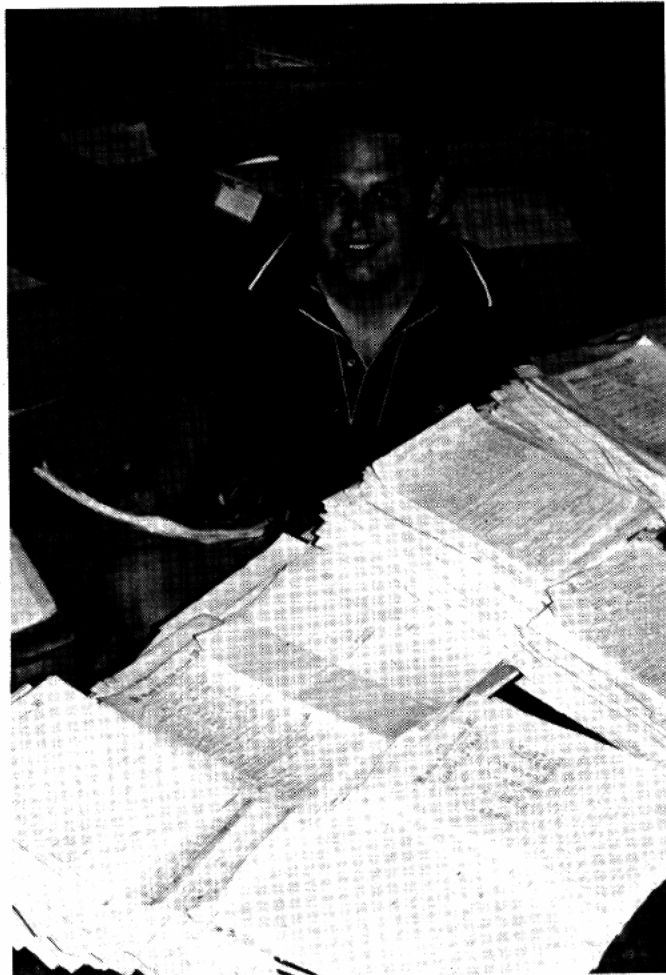
The whole EA8CR success story is told in these two pictures — good operators, lots of good gear, great antennas, and a super QTH, not to mention the planning. The group picture (on the left) depicts (from left, top row) EA8BW, EA8OZ, EA8-2560-U, EA8LO, OH3XZ, EA8CR, EA8PT, OH2BH, OH2MM, OH2BAD, and all that gear! The photo on the right shows the elevated special QTH, with the clouds well below in the background. A discerning eye will pick up the multiple antennas.

new Asian Multi-Single record! In third place was 5W1AZ (5.4 M), manned by Phil and Pete, WB6OOL, with a brand new Oceana record. Then, in fourth place, 6W8MM with K1XA and WB2CHO operating, set a new African record with 4.9 M.

Although capturing the new USA Single Operator record, W3WJD lost his 1972 USA Multi-Single record this year. It was K5JA (operated by K5JA, K5RX, K5SR, K5XR, N5AU and WB5SFX) in a new stateside multi-single record of 2.64 M. Their station, and arch rival K5RC, have now brought both the phone and c.w. USA multi-single records to Texas. Well done, fellows! N6SV, operated by Reg and Jim Rafferty, N6RJ, finished second at just under 2 M.

Multi-Operator, Multi-Transmitter Winners

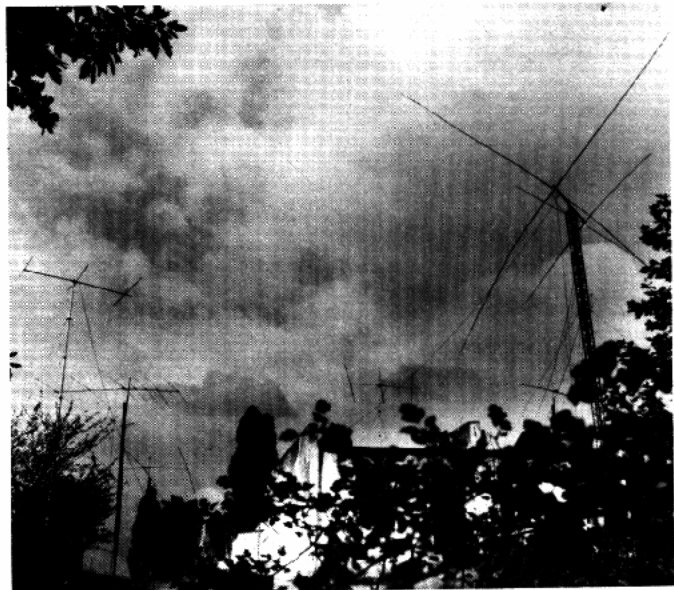
We have already lavished praise of EA8CR's multi-multi world-record score, the highest ever achieved in a CQ WW



Larry Brockman, N6AR, appears buried in an avalanche of logs as he worked on scoring the Phone results. These are part of the record number of entrees for the 1977 Contest.

Contest, phone or c.w. Some of the pictures they sent in help tell the story better than words, so we have included them for ready reference. However, several other very fine multi-multi efforts were fielded as well and should not go without mention.

Both HH5HR, operated by a North Florida group, and W2PV broke the old North American record, with HH5HR on top with just a hair under 10 M. W2PV, at 7.3 M, took the USA high all time record as consolation. The gang at 4J9B, in their first ever multi-multi phone effort in the CQ WW, set a new Asian record at 5.9 M—remember, that's with one point JA QSOs. Best of luck next year to Sam, Willy, and all the other operators at 4J9B/UK9AAN.



George, UA6APW, sends along this picture of the antennas at 4L6M—this years World second high Multi-single effort.

Single Band Competition

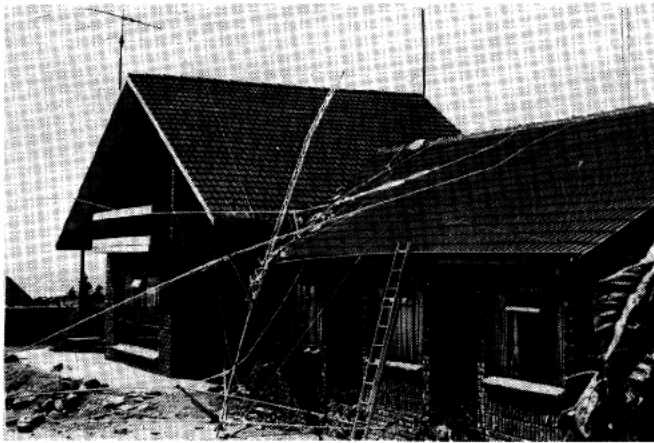
Although 10 meter activity was definitely on a popularity upswing, the low band activity remained brisk as well. The 160 meter winners were DJ8WLA (Worldwide) and N4EA (Stateside) in what must have been hours of frustrating listening experiences. In the 3.8 MHz competition, Pedro, KP4RF (formerly KP4AST), ran away with it with a fine 245 K score, while John, W2VP, broke the all time USA record with 108 K. The latter score is particularly impressive in light of the noticeable absence of Europeans in most of the stateside 80 meter logs due to band noise. Our compliments to Randy, KH6XX on his second place Worldwide finish and a new Oceana 3.8 MHz record of 116 K.

On 40 meters, Doug, KX6LA, broke his own 1976 7 MHz record from VR3AH with a new World and Oceania high of 406 K. Congratulations, Doug, and although you sent your certificates back to us from last year, we will try a little harder this year with a note on the certificate indicating the World high status. W7KW took USA high 40 Meters and proved that his station is not just hot air.

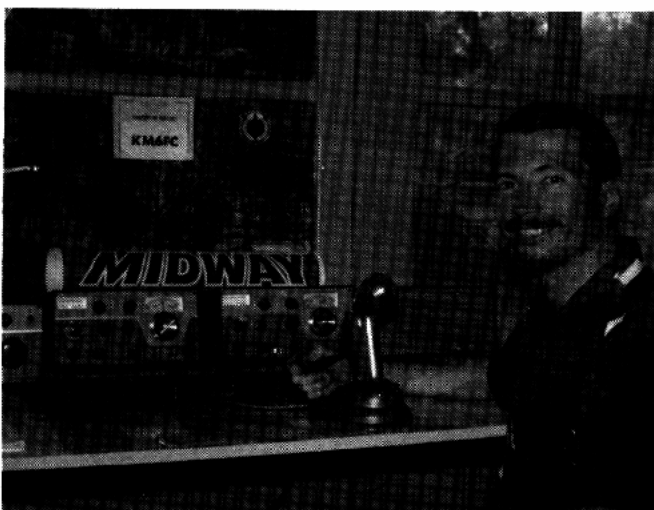
On 20 meters, top billing went to Sergio, YV2AMM with just under 1 M, despite very stiff competition from 8P0A, Alan, who fell shy by just 3 K points. By the way, Alan, had you duped your log, yours would have been the winning entry. We'll have more to say about duplicates later on. Bob, K2HFX,



The operation at KC4AAA took on a real international flavor this year. In the picture are operators WB6SMS, WN9VZM, K6DYD, ZL1TOJ, and UA3DHO (left to right).



Despite this incredible disaster, ZS6YS still managed to field a credible score in the Multi-single category — good show!



Mike, KM6FC, a welcome multiplier in any log, obviously believes in Drake.



Fourth World high single op, all band entrant HC1BU does it with Collins — whatever turns you on!

finished tops in the USA on 20 with 388 K, an exceptionally fine effort for a 204BA antenna at 55 ft. with all the competition. Bob says he operated the full 48 hours and still had steam to spare—more power to you Bob.

The highest single band scores were 21 MHz entries this year. The Worldwide winner was Drago, YU3ZV with 1.05 M, which set a new European record; while Jim, WA6EKL captured the USA high with 458 K, not quite enough to topple W2AH's 1972 record of 486 K.

On the top band it was Paulo, PY1MAG, in a very close race with Sergio, IG9SKO (Lampedusa Island, Africa, Zone 33), with Paulo the winner at 657 K. Sergio's only consolation is a new African 28 MHz record. Neil, WB6PXP, took the USA prize on ten Meters from the Rainbow Ridge QTH in between the devastating wind storms that have kept them out of the all band competitions of late.

High Points

There were some noticeable high points in this year's contest. Like the SMØAGD/YI check log! We conjecture that Eric was suspicious we would look askance at those YI contacts in the European logs without positive proof. Well done, Eric. Your small but fortuitous contribution has cleared the cobwebs from avid DXer's' linears; sporadic threats of their plans to enter next year's contest have been heard. After all, if this contest is the place to work YI, then anything can happen in the contest.

We also received a note from a WD5 apologizing for his low score, and inquiring if a VS6 on 10 meter phone from W5 at 13Z was good DX? Good grief man, how could you wait so patiently for one hour for him to finish his ragchew. Of course that's good DX, especially for that time of the day.

Then there was the chap who dropped us a line and asked which magazine the CQ W.W. contest results would be in—QST or 73? One wonders how he got our address in the first place.

Those 10 meter band openings showed real signs of sunspot highs, with even a few spotty reports of W6 to Europe QSO's Just a handful, to be sure, but a sign of much more to come.

Low Points (Duplicates)

What a hornet's nest we stepped on when we passed our rule on dupe sheets (cross check sheets) last year. All kinds of mail and all kinds of confusion have developed. Let's try to clarify our position.

If your log contains over 200 contacts on any band, then you must submit a cross check sheet (dupe sheet) for any such band. For most of us, a cross check sheet is straightforward and unambiguous. It is an ordered list of the contacts made (all of them), on a form that is alphabetized or ordered in some other logical manner, such as the ARRL form CD175.

Some entrants claim to have removed duplicates from their logs, but neglected to send in their cross check worksheets (dupe sheets). They claim that there are no dupe sheet forms available from CQ. We realize that for the time being that is the case, but we are working on that problem now. Bob Cox, K3EST, is currently heading a subcommittee to come up with the proper format for dupe sheets. However, because our contest is international, a standard form for use by all is not that easy to formulate. We plan to present an article later that treats cross-checking procedures in some detail, and gives some samples of a suitable format. Until then, we suggest you use existing forms or make up your own. By the way, any of your suggestions on this matter would be most appreciated.

In any event, no matter how messy or unorthodox your forms are, we prefer that you send them to us with your log. It makes our log checking much easier, and it helps you to

establish that you have duped your log, thereby avoiding possible disqualification.

Speaking of duplicates, it is with regret that we wish to relate an example to you on why we consider duplicate removal so important. Our rule of thumb is that 3% duplicates is too many, but some entrants were running above 5% with just a partial check of their logs. That is incredible, more than 1 duplicate out of every 20 contacts. The point is that the margin of victory is often less than the 5 to 7% duplicates observed. The only fair way to determine the real winner is to thoroughly dupe all such logs. However, for a 2,000 to 3,500 contact log, that's a real chore. Our log checkers have as many as 200 logs each to check, so that duping them thoroughly is out of the question. It is the entrant's responsibility to dupe his own log. Thus, we will disqualify such entrants rather than do their work for them.

JA Problems

In the last several years W to JA QSOs on 80 Meter phone have become more and more difficult to achieve. A 10 kHz. segment centered at 3798 kHz. has been authorized for use by the Japanese government. So, the JA boys have all jumped into that segment rather than their old home ground below 3600 kHz. However, it doesn't take many big bruisers calling CQ JA, (Multi-Multi or otherwise) to wipe out such a small band. This year tempers were beginning to show a little. There were some really nice guys showing some really nasty behavior, not at all representative of them. To solve this problem, we suggest that the W, VE, and other Western Hemisphere stations stay out of the 10 kHz. segment, and we call on the JA boys to return to below 3600 kHz.—at least for the contest. We passed this idea by the W6s at this year's California DX Convention at Visalia, and the consensus was overwhelmingly in favor of such restraint.

Requests to the CQ WW Contest Committee

We urge all of you who plan to submit requests to the committee for logs, summary sheets, and rules to do so well in advance of the contest each year—the earlier the better. Delays in response to your requests are inevitable, due to the procedure used. The requests are first bundled up and then sent to the contest directors for a response. One way to shortcut some of the delay is to mail your requests regarding the WW contest directly to one of the directors (N6AR or K3EST). Lastly, all requests must be accompanied by an adequate amount of return postage.

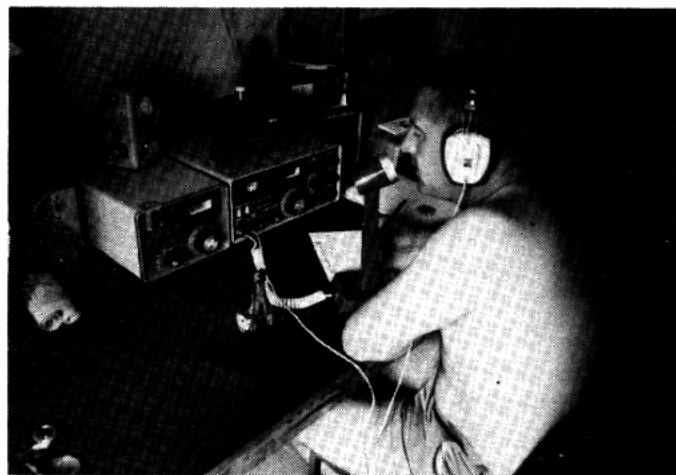
Credit Where Credit is Due

An especially heavy load of logs was processed very fairly and efficiently by an excellent staff this year, and we would like to take this opportunity to acknowledge their efforts. Deciphering this year's mounds of hyroglyphics were: K6NA, Glenn Rattmann; N2AA, Gene Walsh, N4MM, John Kanode; K2SS, Dave Donnelly; W3GRF, Lenny Chertock; N6CW, Terry Baxter; W3ZZ, Gene Zimmerman; N6TJ, Jim Neiger; W6PVB, Fred Morris; K5RC, Tom Taormina; N6SV, Reg Toume, and N6VV, Lew Jenkins. The latter three are new members of the CQ WW Contest Committee as of 1977. Thanks for a job well done fellows. Also Frank, W1WY, our illustrious Chairman, who keeps the pressure on us to process the certificates faster, deserves at least honorable mention.

1977 CQ WW CW Results

Look for the c.w. contest results in next month's issue. The club competition appears to be a real cliff hanger this year, with a new upstart, the Yankee Clipper Contest Club making a strong bid to break into the traditional Frankford and PVRC ranks. I'm sure you'll want to know the final verdict. We'll see you next month.

73, Larry, N6AR and Bob, K3EST



Phil Williams, part of the 5W1AZ crew, is shown here hard at work during the competition. Congratulations on a job well done.



K1XA of 6W8MM, World fourth high in Multi-Single, is shown grabbing a bite to eat in between QSO's.



Pete, N6CJ, Jose, XE2MX and Phil, N6ZZ, are shown here just after the contest at XE2MX. Jose looks like he took it in stride, but the crazy Americans look bushed!

BAND-BY-BAND BREAKDOWN—TOP ALL BAND SCORES

Number groups indicate: QSO's/Zones/Countries on each band.

WORLD TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
PJ9CG	0/0 /0	456/22/55	549/21/52	877/28/96	1414/27/72	1179/23/64
KG6SW	0/0 /0	120/14/16	398/15/23	604/29/75	1935/36/77	1682/29/53
9L1SL/A	0/0 /0	60/11/27	225/21/53	756/30/87	1135/25/83	792/20/62
HC1BU	0/0 /0	127/13/24	192/17/31	868/26/60	1077/23/69	1246/17/29
VP2VDH	4/1 /4	278/10/19	670/18/42	611/19/46	1324/19/58	1643/15/40
9Z4NP	3/2 /3	121/10/15	141/15/21	839/18/51	860/34/67	764/16/45
W3WJD	7/4 /5	74/18/38	110/23/60	507/33/88	867/29/96	148/21/64
KH6NO	0/0 /0	116/9 /10	256/15/22	459/18/39	1217/16/24	1552/19/31
DJ4PT	33/3 /9	269/10/46	302/22/56	480/27/71	968/28/70	125/21/56
UB5WE	0/0 /0	222/11/48	231/20/58	793/32/93	715/27/83	110/20/58

WORLD TOP MULTI-OPERATOR—SINGLE TRANSMITTER

FM0FC	50/8 /12	543/21/59	482/19/48	1128/32/108	1690/28/92	1846/20/61
4L6M	0/0 /0	237/8/58	715/21/67	2397/35/116	320/28/91	269/25/71
5W1AZ	4/2 /4	68/14/17	658/23/34	1131/34/95	1250/28/48	2043/24/43
6W6MM	0/0 /0	60/9 /12	383/15/40	1245/30/81	953/22/69	1730/23/78
DJ0WU	10/3 /10	165/11/50	289/24/69	737/31/109	1439/31/96	87/17/67
CY3KZ	56/3 /3	445/14/27	314/14/23	923/31/99	1553/31/91	96/18/49

WORLD TOP MULTI-OPERATOR—SINGLE TRANSMITTER

EA8CR	123/10/26	737/22/83	1038/22/79	2466/37/144	2992/32/110	2934/30/102
HH5HR	132/7 /16	640/15/46	1164/24/81	2742/31/115	1952/30/95	1813/22/53
W2PV	35/6 /9	376/19/49	221/23/69	1740/38/137	1663/32/124	356/23/76
DK0KX	86/3 /14	528/15/56	519/21/73	2004/39/133	1502/34/110	220/18/64
VP9DX	171/7 /10	600/11/39	578/20/58	1552/34/96	1576/27/81	1887/22/54
H18RCD	100/8 /15	603/14/23	597/22/50	1990/30/81	1709/22/61	2198/16/45

DY QRM

The main problem during winter was a rotator ... the temperature dropped down around -100F ... UA3DHO (op at KC4AAA). Next year we're computerizing the logs ... CY1NN. Everyone involved had a great time ... CY1UNB. Lets hear it for JA's ... VE3AKG. This was our first attempt at this contest. We entered it solely to annoy our local competition ... VC9UM. Suggest W/VE should not be allowed to work each other. Would seem more like a DX contest ... VE4EW. Typical ham, used a guy wire clamp to fix a burned out power service wire ... VE6HN. KL7RW on 10 was a reality and not a figment of someones imagination ... KZ0DX. Hope the W's are not angry that we did also work some DX ... OE3GSA (op at VP2MSA). Local power company doing repairs at the height the 10 meter pileup drove us wild. This is our first contest and had tremendous fun. Can't do the CW due to college exams ... VU2AH (op at VU2IIT). Where was Africa? 10m was great ... WB6OOL/W5W1AZ. Catching the sporadic E on Friday night certainly helped ... WB2RLK/VE1. Biggest thrill was having CR9AJ break JA pileup for my only zone 24 ... VE1MX. Forgot to work Brazil on 10 and 15 meters ... PP1ZBM. Question: If I train a parrot to call CQ, would that be multioperator? ... PY8ZLC. Beat my own previous high score, so contest was a success ... CE0AE. Glad to see 10 open after such a long time. Unfortunately, African and Pacific operation was very reduced ... CX3BH. First contest, loved every minute of it ... KG4EP. This is the second year in a row that I am struck by a storm—maybe next year ... KP4RF. Enjoyed hearing the YB station call me, but I still guess the JA's are hiding out. Not like the hundreds I used to get from VS6DD ... N7DC/YV5. The most difficult station to work was HH5HR because of the skip on 15 ... HI3XEA. Best I've ever done with QRPP (5 watts input). Couldn't believe the pileup from Europe ... OA8V. At least my wife didn't have a baby in the middle of this year's contest ... OA8CG. It seems that the propagation is building up again ... UR2AR. Very bad reception on 40 because of jamming and BC. But, contest itself was a lot of fun as always ... UB5WE. Worked IG9SKO LP on 10 ... JR1JVV. Too bad we are limited to 50 watts on 10 ... KA6JC. I still cannot believe contacting DX stations in the heavy QRM on 7 MHz ... JA1BNN. Got confused with KA2DX many times ... KA6DX. The absence of the Russian Helicopter was helpful ... G4CVZ (Ed. AMEN). Excellent manners of the USA JA stations during pileups ... G3KKJ. I like the station who said "You are 5915, but please repeat your call—you are very weak" ... G3FTQ. Worked 5 continents in 39 minutes with only

USA TOP SINGLE OPERATOR—ALL BAND

Station	160	80	40	20	15	10
W3WJD	7/4 /5	74/18/38	110/23/60	507/33/88	867/29/96	148/21/64
N7DD	6/5 /3	69/14/22	202/20/40	329/34/75	730/29/72	459/24/48
N1GL	10/5 /5	86/14/35	75/19/46	528/32/90	590/28/88	105/20/48
K2BU	0/0 /0	50/16/31	71/22/42	567/30/97	521/26/82	120/18/54
K1DG	1/1 /1	84/12/27	24/9 /24	572/29/88	756/29/87	73/17/54
W6XR	1/1 /1	14/9 /9	42/15/19	519/28/75	771/23/52	340/22/38
N2LT	12/5 /8	34/12/20	82/21/45	301/29/73	658/27/89	112/18/56
W6RR	0/0 /0	34/15/17	64/20/33	347/28/65	575/28/69	433/25/61
K7RI	5/3 /3	62/14/16	197/16/20	359/24/49	881/21/37	268/19/37
K5GA	8/5 /6	54/15/28	97/20/46	258/29/77	426/26/75	330/24/65

USA TOP MULTI-OPERATOR—SINGLE TRANSMITTER

K5JA	16/5 /10	82/20/40	101/25/57	321/32/86	693/29/100	589/29/91
N6SV	4/3 /2	85/19/30	292/22/38	257/27/69	967/26/71	224/23/41
W1ZA	8/4 /6	118/15/45	69/22/57	685/35/114	472/28/87	85/20/65
W4DR	18/7 /10	36/13/23	128/23/76	396/34/98	514/25/91	125/21/56
K1PR	11/3 /6	106/18/35	80/20/47	352/30/84	596/28/92	168/22/71
W0FG	11/6 /8	14/10/15	186/24/42	236/30/71	730/22/69	275/25/54

USA TOP MULTI-OPERATOR—MULTI TRANSMITTER

W2PV	35/6 /9	376/19/49	221/23/69	1740/38/137	1663/32/124	356/23/76
K10X	23/5 /9	358/19/53	206/21/65	1009/34/119	1280/28/112	343/20/62
K2GM	84/9 /12	169/17/39	245/28/76	1262/38/128	928/30/107	188/21/85
W1ZM	16/5 /7	313/17/49	208/23/69	910/36/117	1177/33/113	207/21/71
W4BVV	19/5 /9	123/19/41	166/22/59	598/36/105	960/31/105	280/25/83
K3WW	26/3 /6	117/16/36	176/23/72	837/37/119	696/29/95	241/23/76

50 watts output ... OE1SBA. As usual, the best 48 hours of fun and thrill in all the year ... OK2RZ. Good to see the expeditions on 21 MHz ... OK2SPS. My tower is hand rotated. The strong winds caused some problems on Saturday ... OH6JW. Conditions poor first day; better the second day ... I2CBM. Incredible Contest! Never expected to find such pileups of W's on 21MHz ... I4USC. After 8 hours the rig quit. With no spare, I returned to the city and just relaxed ... YU3EY. New Call this year. Used to be YU2RBY. Hope I have the European record on 21 ... YU2HS. Enjoyed the contest, but the propagation was very poor all during the contest ... I6NOA. Would like to see more activity outside Europe and USA ... OK1DA. Heard a lot of elusive multipliers on 40, but how hard it is to work them ... OE5CWL. Thanks to VE3BMV for helping out Saturday night when we were almost burned out ... VE3KZ. Tough to get the attention of the stateside hams and to go through the JA's ... CR9AJ/W6AQ. Lots of fun running the contest, but what a drag writing the logs ... DM2DUK. Enjoyed again the World Championships of Ham Radio—the CQ Contest ... ON6MP.

USA QRM

Dynamite conditions, especially on 10M ... K1IU. First CQ WW for us ... had a great time and learned a lot ... W2YV. Not bad, working Antarctica on first attempt ... K2GXT. It's great. Suggest you have this contest twice a year ... N3AW. Second time in contest and first as a multi-single. Lots of room for improvement, but will be back next year ... N3UN. First contest ... WA3NAN. We didn't do as well on 15m as we should have and it cost us. Condx were super for a super contest ... N4PN. JT1AN answered a CQ ... K4VX. Don't think the use of 2 meters should be considered as an additional operator. It is a normal part of my station & DXing habits ... N4HU. Foey on the 2 meter spotting net rule. The 2 meter info is nice, but it can't sleep for you, log, check dupes, etc. ... W4LVM. To the EA8 station; WA4ENJ was not in Helsinki last year ... WA4ENJ. Great to have 10m back ... K4JNM. Our first real contest. Worked W. Samoa and South Pole on 40. Look out next time ... WD4BRE. I wish DX stations would stop the long runs without identifying ... WA4JTC. Got the new amp built half way through the test. Sure helped ... WB4FOT. Best opening I've ever seen on 10 from Texas ... K5JA. Built on 80m sloper at 1 AM Saturday ... K5FUV. Bye bye 80, hello 10. Love those sunspots ... W6OKK. Very good. Please send a bill for a subscription to CQ. ... WA6JUD. Japan pouring in on 10 and 15, wish we were multi-multi ...

W6VLD. CB splatter was out of this world on 10 and 15 ... W6BIP. Happy days are here again. Ten was open, but where was everyone on 160 ... K6YK. Too many mistakes to win first multi-single, but look out, we'll be back ... N8JW. Halloween party in the middle of the contest didn't help the score ... WB9TXO. Nothing like getting wiped out by snow static during a JA run ... W0FG. Virtually every piece of equipment blew up at least once, one antenna and feedline lost, even the vacuum cleaner quit ... WB0KWI. First multiop effort. Do we have a lot to learn ... N0DX. QRM terrific—in fact, unbearable. Wish we were back in the low part of cycle 20 ... N6AN. I hate Dupes ... WA6DNN. The relief when the band changed so the W6's didn't destroy the hearing ... W7MLJ. New location, new call, new antennas—but the same lousy score ... K8MN. Contests interfere with my sex life! My score should be better in the years ahead ... W8WPC. What a mess for a "CW" man ... K9DX. First phone contest ever—prior to contest had total for 3 QSO's on phone ... W0UZ. "Tremendous ... N1GL. 1st time I was able to run JA's ... K1KNQ. Next time more organization and a lot more rest prior to 000Z ... K1NG. Surprised to have JT1AN call me ... W1OO. Poor PY3APH, called by N1AU and N2AU at the same time, utterly confused ... N1AU. My TA33 got lost in shipping, so roughed it again with my dipole ... W1DYH. Never again with 150 watts. I can't stand the frustrations. ... WB1AOS. Called CQ on 14.33 by mistake and was answered by CR9AJ ... W1GSH. Tree fell across power lines; no power—took sleep break ... WA1PSI. Conditions worst ever for contest on 160 ... K1PBW. Where were the Europeans on 75 meters? ... N2MR. Where, oh where was Kermadec? ... W2LEJ. Last time on was KA2NY in 60's—a lot different!! ... W2IMX. 10m band was about twice as good as last year. Had 2 hrs of S9+ 10 noise from local construction first afternoon ... K9EGA/2. Made the 48hrs with plenty to spare ... K2HFJ. Thrilled to have UK1PAA answer my CQ from Franz Joseph Land ... N3BB. Was a little dismayed to hear so many calls similar to my new one ... K3ND. Was delighted to hear 10m open to Europe and Africa ... WA3WRD. No TVI until 30 minutes before end of the contest—at least no calls ... K3KA. Nice to work 10 again ... W3UO. Did alright for my funky long wire antenna system ... K3OX. Put up a vertical wire for 160 supported by helium balloons but the neighborhood kids got them ... WA3RSK. Beam went down 2 weeks ago in storm—just got it up Saturday afternoon ... WA3ROX. Didn't think I could break through the pileups as good as I did ... WB3CHS. In addition to being a 'ham', I'm a magician. Sure wish I could have worked some magic on 20m ... WA3AAJ. CR9AJ called me with 3 minutes left in the contest ... N4NW. 10 meters—WOW!! ... N4AA. First CQ WW, total enjoyment ... N4SX. First time in contest and enjoyed it ... W4DWY. Great 10m openings—what a smorgasbord of DX!! ... WA4NTP. Haven't heard 10 so good since the early 60's ... K8JRM/4. Worked KL7RW on 10m to finish 5BWAS ... WA4JWJ turn beam ... W4WJJ. Kites supporting 160' verticals came down 4AM Saturday. Finished contest with inverted V up 30' ... N4UM. Best propagation since 1969 contest ... K5DB. Age 71, first contest ... W5DUI. Borrowed everything for this contest except tower and coax ... WB5HIH. Last contest was SV0WEE ... WB5WRY.

STATION OPERATORS

Multi-Operator Single-Transmitter

CY1NN; VE1NN, VE1BGD, VE1BKA, VE1DI, VE1RU, VE1XG. **CY1UNB**: VE1BCZ, VE1BEC, VE1BHA, VE1QT, VE1BJC, AL, DWIGHT. **DF3QG**, DK8QA, **DK0KU**; Club. **DK0TU**: DL7QU, DF55G, DK6QJ, DL7ON, DL7SI, DL7XB, DL1MD & DL7AV, DK2KV, **DL8DC**: DL8CM, DL8FR, DL8HA, **DL8RCA**: DJ1GX, DJ7SO, DL4KE, DF3KJ. **DL8UE**: DF20U, DF20K, DJ4GO, DK4OV, DL3LU, DL8RL. **DL9WU**: DJ4XJ, DJ8SW, DK4TP, DK5EZ, DL9DY, DK4EM, DK8WZ, **DK6JZ**, **DM2AYC** & **DM2BBC**, **DM2BHC**, **DM2DUK** & **DM2AYK**, **DM4ZA**: DM4VZ, **DM4WZA**, **FG9DWT/FS**: F6BLK, F6CUC, **F6MFC**: K4GKD, N4MM, N8II, F7AV, K7ZZ. **G3XMI**: G8LJU, MKL, IOE, LXJ, KGG, LZJ, G4DZC, CKT, AEQ, G3ZER, WIE, ZYU, XUX, **G3RCV**: G2MI, G3VOX, XMD, TAA, G4FSZ, FUG, **G3VPV** & **G3UKS**, G4EIK, G4AFJ. **G6UW**: G3ZAY, G3ZHK, G4BAH, G4FAM, BR532525. **G4BJY/A**: G4BTY, G5OAA (K3RV). **HA2KRL**: Kuboia Kum. **HA5KKC/2**: HA5MD, HA5MO, HA5LV, Zudor. **HA5KKO/2**: Kincses, Saradi, Ferkali. **HA4KYH**: Czanalog, HA4YQ, HA4YO. **HA5KFN/5**: HA5GF, HA5HY, 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Habony, Vergent. **HA7KLG**: Batho, Tuza, Thihany, Tajli. **HA9KB**: HA9PV, HA9RB, HA9RU, HA9SB, Lajos. **HB0BHA**: DJ2EH, DJ4PX, DK7NM, DK9NV, DF9GR, DL8NE, DK6NN/HB9BHA, HV3SJ & W3US. **I1GUB** & **I1ANF**: I1D5G, I1GJC, I1PCT, I1RBP, I1DIE, I1UW, I1VZ, I1KN & I1ANP, I1SBU, I1LH, I1FNX, I1UTV, W1YVU, W1PDP, Lorenzelli, **I0GPP** & MWI, PNJ, XEF. **J46YFT**: JH6LAF, JH6LBE, JH6NAC, JH6OKN, JH6RNL. **J47YQC**: JH1FL, JG1SLY, J47RQ, JH6BZR, J48NNT: **J47YFB**: J47LPX, J47WBU, JH8DXM. **J49YAK**: KENJI, JUNICHI, NAUYUKI, YASUYOSHI, MASATO. **K1IK** & **W1IUU**. **K1TU** & **W1VQ**, **K1YL**, **K1PR** & **K1XM**, **WA1MAO**, **WA1QNF**. **K1RU** & **K1YK**. **K1RQ** & **W1AUL**, **WA1GQE**. **K1ZC** & **N1EE**, **W1CTQ**, **WA1ZV**, **KZBT** & **KZDA**, **KZUR**, **K2YJ**, **N2IS**, **G3ZHK**, **G4BAH**, **G4FAM**, **BR532525**, **G4BJY/A**: **G4BTY**, **G5OAA** (K3RV). **HA2KRL**: Kuboia Kum. **HA5KKC/2**: HA5MD, HA5MO, HA5LV, Zudor. **HA5KKO/2**: Kincses, Saradi, Ferkali. **HA4KYH**: Czanalog, HA4YQ, HA4YO. **HA5KFN/5**: HA5GF, HA5HY, Szellar, Ehrmann. **HA6KN**: Denes, Szabo, Tozek, Habony, Vergent. **HA7KLG**: Batho, Tuza, Thihany, Tajli. **HA9KB**: HA9PV, HA9RB, HA9RU, HA9SB, Lajos. **HB0BHA**: DJ2EH, DJ4PX, DK7NM, DK9NV, DF9GR, DL8NE, DK6NN/HB9BHA, HV3SJ & W3US. **I1GUB** & **I1ANF**: I1D5G, I1GJC, I1PCT, I1RBP, I1DIE, I1UW, I1VZ, I1KN & I1ANP, I1SBU, I1LH, I1FNX, I1UTV, W1YVU, W1PDP, Lorenzelli, **I0GPP** & MWI, PNJ, XEF. **J46YFT**: JH6LAF, JH6LBE, JH6NAC, JH6OKN, JH6RNL. **J47YQC**: JH1FL, JG1SLY, J47RQ, JH6BZR, J48NNT: **J47YFB**: J47LPX, J47WBU, JH8DXM. **J49YAK**: KENJI, JUNICHI, NAUYUKI, YASUYOSHI, MASATO. **K1IK** & **W1IUU**. **K1TU** & **W1VQ**, **K1YL**, **K1PR** & **K1XM**, **WA1MAO**, **WA1QNF**. **K1RU** & **K1YK**. **K1RQ** & **W1AUL**, **WA1GQE**. **K1ZC** & **N1EE**, **W1CTQ**, **WA1ZV**, **KZBT** & **KZDA**, **KZUR**, **K2YJ**, **N2IS**, **G3ZHK**, **G4BAH**, **G4FAM**, **BR532525**, **G4BJY/A**: **G4BTY**, **G5OAA** (K3RV). **HA2KRL**: Kuboia Kum. **HA5KKC/2**: HA5MD, HA5MO, HA5LV, Zudor. **HA5KKO/2**: Kincses, Saradi, Ferkali. **HA4KYH**: Czanalog, HA4YQ, HA4YO. **HA5KFN/5**: HA5GF, HA5HY, Szellar, Ehrmann. **HA6KN**: Denes, Szabo, Tozek, Habony, Vergent. **HA7KLG**: Batho, Tuza, Thihany, Tajli. **HA9KB**: HA9PV, HA9RB, HA9RU, HA9SB, Lajos. **HB0BHA**: DJ2EH, DJ4PX, DK7NM, DK9NV, DF9GR, DL8NE, DK6NN/HB9BHA, HV3SJ & W3US. **I1GUB** & **I1ANF**: I1D5G, I1GJC, I1PCT, I1RBP, I1DIE, I1UW, I1VZ, I1KN & I1ANP, I1SBU, I1LH, I1FNX, I1UTV, W1YVU, W1PDP, Lorenzelli, **I0GPP** & MWI, PNJ, XEF. **J46YFT**: JH6LAF, JH6LBE, JH6NAC, JH6OKN, JH6RNL. **J47YQC**: JH1FL, JG1SLY, J47RQ, JH6BZR, J48NNT: **J47YFB**: J47LPX, J47WBU, JH8DXM. **J49YAK**: KENJI, JUNICHI, NAUYUKI, YASUYOSHI, MASATO. **K1IK** & **W1IUU**. **K1TU** & **W1VQ**, **K1YL**, **K1PR** & **K1XM**, **WA1MAO**, **WA1QNF**. **K1RU** & **K1YK**. **K1RQ** & **W1AUL**, **WA1GQE**. **K1ZC** & **N1EE**, **W1CTQ**, **WA1ZV**, **KZBT** & **KZDA**, **KZUR**, **K2YJ**, **N2IS**, **G3ZHK**, **G4BAH**, **G4FAM**, **BR532525**, **G4BJY/A**: **G4BTY**, **G5OAA** (K3RV). **HA2KRL**: Kuboia Kum. **HA5KKC/2**: HA5MD, HA5MO, HA5LV, Zudor. **HA5KKO/2**: Kincses, Saradi, Ferkali. **HA4KYH**: Czanalog, HA4YQ, HA4YO. **HA5KFN/5**: HA5GF, HA5HY, Szellar, Ehrmann. **HA6KN**: Denes, Szabo, Tozek, Habony, Vergent. **HA7KLG**: Batho, Tuza, Thihany, Tajli. **HA9KB**: HA9PV, HA9RB, HA9RU, HA9SB, Lajos. **HB0BHA**: DJ2EH, DJ4PX, DK7NM, DK9NV, DF9GR, DL8NE, DK6NN/HB9BHA, HV3SJ & W3US. **I1GUB** & **I1ANF**: I1D5G, I1GJC, I1PCT, I1RBP, I1DIE, I1UW, I1VZ, I1KN & I1ANP, I1SBU, I1LH, I1FNX, I1UTV, W1YVU, W1PDP, Lorenzelli, **I0GPP** & MWI, PNJ, XEF. **J46YFT**: JH6LAF, JH6LBE, JH6NAC, JH6OKN, JH6RNL. **J47YQC**: JH1FL, JG1SLY, J47RQ, JH6BZR, J48NNT: **J47YFB**: J47LPX, J47WBU, JH8DXM. **J49YAK**: KENJI, JUNICHI, NAUYUKI, YASUYOSHI, MASATO. **K1IK** & **W1IUU**. **K1TU** & **W1VQ**, **K1YL**, **K1PR** & **K1XM**, **WA1MAO**, **WA1QNF**. **K1RU** & **K1YK**. **K1RQ** & **W1AUL**, **WA1GQE**. **K1ZC** & **N1EE**, **W1CTQ**, **WA1ZV**, **KZBT** & **KZDA**, **KZUR**, **K2YJ**, **N2IS**, **G3ZHK**, **G4BAH**, **G4FAM**, **BR532525**, **G4BJY/A**: **G4BTY**, **G5OAA** (K3RV). **HA2KRL**: Kuboia Kum. **HA5KKC/2**: HA5MD, HA5MO, HA5LV, Zudor. **HA5KKO/2**: Kincses, Saradi, Ferkali. **HA4KYH**: Czanalog, HA4YQ, HA4YO. **HA5KFN/5**: HA5GF, HA5HY, Szellar, Ehrmann. **HA6KN**: Denes, Szabo, Tozek, Habony, Vergent. **HA7KLG**: Batho, Tuza, Thihany, Tajli. **HA9KB**: HA9PV

Number groups after call letters denote following Band (A-all), Final Score, Number of QSOs, Zones and Countries. Certificate winners are listed in Bold Face.

**PHONE RESULTS:
SINGLE OPERATOR
NORTH AMERICA**

UNITED STATES			
N1GL	A 1,704,520	1394	118 312
K10G	1,504,165	1510	97 268
K1WB	729,060	902	81 209
K1XK	655,146	774	86 220
K1KNQ	514,794	647	87 207
W1UR	424,463	493	91 226
K1WAG	352,157	499	78 185
W1DA	283,040	419	63 181
W100	256,998	440	62 141
W1MM	237,195	382	75 176
W1HY	214,785	372	68 147
W1NG	203,232	369	72 147
K1HMO	180,122	296	68 158
K1MBQ	168,175	380	51 124
W1HX	163,548	271	72 164
WA1NRG	150,060	306	52 131
K1YHM	131,047	257	63 130
W1WY	119,148	246	56 128
W1SD	118,932	235	57 139
W1GG	115,992	267	64 115
N1AU	113,120	262	49 111
N1JW	106,326	232	63 135
WA1TAT	104,958	260	45 102
WB1AOS	78,526	198	48 74
W1GD	64,477	170	46 105
W1ZT	51,830	154	49 97
W1DYH	46,101	142	43 84
K1BV	32,208	134	26 62
WA1OLK	32,058	101	41 76
W1RQ	26,558	116	36 62
K1ZZ	25,576	109	36 53
W1XK	22,922	119	21 52
K1WJL	17,457	101	18 51
K1WJ	11,242	68	25 48
WA1ZEF	11,016	97	27 45
WB1DLA	9,600	76	20 40
K1LL	9,280	75	21 37
W1VV	8,820	56	26 37
WA4YU1	8,250	73	17 33
W1XX	2,257	25	16 21
W1PLJ	1,003	20	7 10
W1BK	860	26	9 11
WA1HFN	51,086	214	22 67
K1LW1	39,852	189	20 62
WA1VQP	25,795	133	20 57
WB1DGG	23,184	120	20 52
W1BR	5,054	52	13 25
WB6K1L1	1,827	27	9 20
K1RT	21	382,398	990 27 111
W1FXD	328,107	801	31 110
K1WX	319,480	798	30 110
W1YN	267,570	748	27 98
WA1EUO	250,107	801	26 93
WA1UZH	135,360	504	22 44
K1TN	111,456	405	21 75
W1ZIY	45,198	173	23 70
W1GSH	172,074	526	28 91
WA1PSI	18,000	154	14 34
WB3BS1	1,827	25	11 18
W1YG	7	29,760	138 19 61
WA1POJ	3.8	136	8 4 4
K1PBW	1.8	1,792	31 12 16
W1BB	198	9	3 8
K2BU	A 1,573,352	1329	112 306
N2LT	1,355,289	1199	112 291
N2SS	728,815	729	97 258
N2RM	614,075	811	77 198
K2JA	570,734	741	73 205
K2FL	531,416	551	102 260
N2RL	311,322	441	75 192
W2LU	279,946	430	84 194
WA2YYA	278,208	457	67 154
W3HKK2	276,571	445	70 166
WA2HGM	214,730	389	61 136
W2KI	182,115	321	66 147
N2VW	180,115	325	71 150
WA2PCF	153,550	310	56 129
W2NS	134,880	302	50 110
WB2FIT	134,688	268	57 126
K2TD	131,704	255	63 139
W2GD	118,664	264	61 121
W2LEJ	110,053	253	56 121
W2CP	107,880	218	62 124
K2SD	104,248	227	51 115
W2SGK	84,128	188	58 118
N2GC	82,368	210	53 103
WB2LOF	46,636	142	49 82
WB2EOD	36,900	165	42 81
W2PFO	34,200	129	25 70
WA2LJM	29,388	117	31 62
W2MKN	28,324	111	34 63
K2TV	26,820	105	34 60
K2PH	26,574	107	36 67
W2XN	21,804	95	31 61
W2FGY	20,865	85	39 68
W2RQ	13,916	76	24 47
W2ZLQ	8,712	58	30 42
W2FVS	7,900	70	17 33
K2VV	7,774	47	19 27
W2IMX	5,244	38	24 33
K2PF	3,772	37	20 26
K9EAG/Z	28	63,063	244 23 76
W2RS	26,460	118	22 68
N2AU	26,136	147	19 53

WB2VWV	25,915	147	19 52
W2KD1	19,568	116	18 48
WA2YYT	17,822	116	20 47
WA2AUB	13,293	87	18 45
W2IML	9,075	69	17 38
WB2GFE	7,850	72	17 33
WA2MHL	7,038	65	17 34
WB2MAN	5,850	49	18 32
N200	2,100	27	11 19
K2HVN	1,960	28	12 16
WB2ZGI	21	143,424	470 24 84
WA2ZWH	37,152	181	19 53
WA2TJO	20,636	99	20 57
W2DW	1,404	21	12 15
K2HFX	14	387,549	875 36 117
K2BMI	222,552	608	33 99
WB2QYT	7	21,736	116 20 56
WB2VFT	10,488	83	17 40
WA2IFS	2,788	36	13 21
W2VP	3.8	108,405	465 24 75
W3WJD	A	2,377,560	1713 128 357
W3RJ	1,184,625	1122	97 276
K3ZO	1,079,305	1064	104 261
N3BB	946,890	1033	91 243
K3WB	928,984	884	99 272
N3AD	906,240	851	106 278
N3ED	702,498	674	102 280
K3NZ	516,971	638	92 207
K3SW	427,680	624	72 171
K3UZV	364,179	550	60 173
K3ND	323,960	421	74 206
K300	305,732	476	80 164
WA3WRD	294,580	429	79 181
K3KA	283,175	438	69 172
W3KQ	275,616	485	66 166
W3AP	275,184	404	81 192
W3KT	274,896	371	86 190
W3GRF	273,462	418	72 166
K3MWW	221,361	338	81 168
WA3NNA	211,920	331	75 165
W3GRS	204,072	295	82 182
W3MR	187,227	335	63 150
K2SCU/3	172,431	330	65 142
W3KH	157,806	278	62 136
W3KV	155,373	283	61 140
W3AZ	153,846	299	53 136
W3BE	147,906	326	53 113
W3UO	135,780	286	61 125
K3WOK	135,270	294	46 121
K3MD	131,528	306	52 112
W3UJ	130,479	278	60 123
W3EVW	130,284	261	63 125
W3HYJ	107,342	220	62 129
K3GQJ	104,193	247	56 97
K30X	98,392	212	71 125
W3HUM	60,544	183	44 84
W3JPT	59,764	180	46 88
WA3RSK	50,828	158	50 81
K3KNH	50,666	146	53 101
K3NL	40,800	144	31 69
WB3EAG	27,948	95	36 66
W33G	27,538	108	31 67
W3UET	20,672	109	18 50
W3ETB	19,995	87	34 59
W3BI	19,080	96	22 50
K3UCK/3	16,470	87	37 53
WA3ROX	14,822	76	31 50
W3CM	11,705	74	23 42
W3PN	11,210	70	21 38
W3JU	8,280	66	16 29
W3PC	6,960	52	20 40
WB3AHN	5,406	38	19 32
WA3ZKL3	4,838	43	14 27
W3SUE	2,442	28	12 21
K3JHE	435	16	6 9
K2PLF/3	28	39,674	196 22 61
W3EB	22,572	137	21 45
W2SKE/3	22,470	133	20 50
WB3BKD	8,211	71	17 34
WB3DET	21	304,640	799 31 105
K3LWM	185,955	565	28 87
W3EWL	136,528	453	25 81
K3GYD	73,056	267	23 73
WA3RRS	46,870	197	20 66
W3JO	27,898	139	21 53
K3MA	10,556	75	14 38
K3JLT	14	277,583	702 35 104
W3GG	165,735	462	30 97
K3TUP	110,880	353	29 83
K3MBF	53,176	203	26 66
W3EAN	38,269	199	15 56
WB3CHS	28,801	134	27 56
WA3AAJ	18,849	149	19 42
K3UA	3.8	7,105	103 12 23
N4RV	A	1,213,740	1086 110 286
W9QQ/4	1,022,788	1035	107 249
W4HR	725,355	671	110 295
N4RA	500,439	586	95 226
N4NW	481,314	628	89 202
K4YT	367,030	490	89 200
W4DM	342,657	492	82 177
WB4ZNH	336,560	479	87 193
W4XR	313,464	400	94 202
K5K7/4	309,272	455	84 184
K4GFH	280,872	430	76 173
WA4GJJ	262,305	380	87 174
WA4PUJ	226,198	446	72 142
K4EZ	199,682	324	28 160
K4AF	188,727	367	72 137
N4AA	179,894	297	75 146
WB4HNC	171,589	305	59 150
K4HAV	166,920	305	76 138
W2GHK/4	165,572	297	70 142
WB4EDD	154,294	279	70 136
K4TE	152,712	283	63 139
W4KFC	140,876	305	44 120

WA4NHP	140,427	275	57 132
N4MO	136,224	300	57 115
W4OZZ	117,831	239	60 121
K4KJ	116,110	255	49 121
WA4PAB	97,495	243	54 101
W4BV	95,535	189	54 139
W4UYC	86,428	218	60 104
WD4BPP	86,180	228	47 92
W4HJ	80,634	189	51 100
N4IA	79,040	205	46 106
W4YE	78,048	197	40 104
K4LRJ	71,982	206	37 92
W4EZ	71,145	182	52 101
N4SX	69,745	172	49 96
W4RW	64,308	168	51 87
WB4LCZ	64,056	202	46 90
WA4UNZ	61,200	172	49 95
WA4IAR/QRP	60,417	181	47 90
WB4BZR	58,326	187	36 86
K4PI	53,760	146	43 97
W00AD/4	50,922	144	46 92
W40UN	50,920	156	46 88
W40WY	48,258	139	42 84
WA4GAB	41,987	133	44 77
W4HVB	40,506	134	45 84
W4MYA	39,198	154	30 64
W45RH	37,675	105	47 90
N4XM	35,984	140	43 61
K4JTH	32,010	124	34 63
W4JVN	30,870	116	38 67
WB4RDV	29,916	110	39 69
K4EG	29,532	122	31 61
K4BAM	28,700	122	40 60
W4KMS	28,158	103	45 69
WA4NTP	27,621	125	40 59
K4UEE	23,086	96	37 60
WA4GLE	20,150	115	22 43
WA4SBT	17,177	75	32 57
N4YJ	15,600	88	25 50
K4KA	13,440	73	33 51
W4RAL	10,138	66	31 43
W4IQ	8,967	65	76 33
K4OD	3,818	37	21 25
W4EEO	2,343	25	9 24
W4QQN	28	160,834	483 28 90
W4MWT	115,988	432	25 82
WB40XX	110,250	399	23 82
K4UTE	72,261	247	28 83
N4UM	51,377	235	21 62
W4YV	44,030	192	22 63
N4NX	43,616	181	23 71
W4BIU	41,130	170	26 64
K4II	35,530	151	25 60
KBJRM/4	33,939	162	24 57
W4AJWT	32,800	159	21 61
W4KNN	24,180	114	24 54
W0YVA/4	20,700	120	19 50
WD4AAM	12,636	90	17 37
W4ZWW	8,823	69	16 35
W4QQ	8,109	55	17 34
W4PME	4,687	41	

TROPHY WINNERS AND DONORS

Single Operator, All Band

World

Station: KG6SW

(Opr. Charles H. Margelli, K7JA)

Donor: Bill Leonard, W2SKE

U.S.A.

Station: W3WJD

(Opr. Walter Rakitsky, WA3LRO)

Donor: Potomac Valley Radio Club

Canada

Lee Sawkins, CY7CC

Donor: Jack Baldwin, VE3BS

Europe

Klaus Kuhlemeier, DJ4PT

Donor: W4BVV Operators

Caribbean/Central America

Tom Skinner, KG4TS

Donor: Don Wallace, W6AM

Africa

Jose Teixeira, CT3BD

Donor: Gordon Marshall, W6RR

Asia

P. M. Goncharov, UF6VAG

Donor: Japan C.Q. Magazine

Oceania

Bill Meyers, KH6NO

Donor: Northern California DX Club

Single Operator, Single Band

World

Drago Turim Jr., YU3ZV

Donor: K2HLB Memorial (No. Jersey DX Assoc.)

World, 3.8 MHz

Pedro J. Piza, Jr., KP4RF

Donor: Fred Capossela, K6XX

U.S.A., 3.8 MHz

John C. Small, W2VP

Donor: Arnold Tomchin, W2HCW

Canada

Udo Franz, CY3FFA

Donor: Gene Krehbeil, VE7KB

Caribbean/Central America

William T. Kerber, KP4DSD

Donor: Pedro Piza, KP4RF

South America

Sergio Pontoni, YV2AMM

Donor: Brazil DXers

Oceania, 14 MHz

Norman R. Duxbury, YB0ACT

Donor: VK3JW Memorial (Pacific DX Net)

U.S.A.

Jim Stevenson, WA6EKL

Donor: Southern California DX Club

Multi-Operator, Single Transmitter

World

Station FM0FC

(Oprs. K4GKD, N4MM, N8II, FM7AV, K7ZZ)

Donor: John Knight, W6YY

Canada

Station CY3KZ

(Oprs. VE3KZ, VE3IXE, and VE3BMV)

Donor: Calgary A.R.A.

Multi-Operator, Multi-Transmitter

World

Station EA8CR

(Oprs. EA8CR, EA8BW, EA8OZ, EA8LO, OH3XZ, EA8PT, OH2BH, OH2MM, and OH2BAD)

Donor: Radio Club of Venezuela

U.S.A.

Station W2PV

(Oprs. W2PV, K1OME, K1MM, K2XA, K2TR, K2VV, N2RX, W2IB, W2VT, W3AZD)

Donor: Dale Hoppe, K6UA

Contest DXpedition

World, Single Operator

Station VP2VDH

(Opr. Terry Baxter, N6CW)

Donor: Stu Meyers, W2GHK

World, Multi Operator

Station EA8CR

(Oprs. EA8CR, EA8BW, EA8OZ, EA8LO, OH3XZ, EA8PT, OH2BH, OH2MM, and OH2BAD)

Donor: Bill Schneider, K2TT

WA5YFQ	17,675	73	43	58	
WA5IEV	13,224	73	29	47	
N5JJ	10,934	64	28	43	
WA5WEY	10,440	69	21	37	
W5VD	9,514	66	27	40	
WA5GZD	8,906	59	26	35	
W5EDX	8,684	57	25	32	
W5SOD	7,791	65	23	26	
K5KR	7,006	50	23	39	
W5EIJ	3,485	31	18	23	
N5AF	660	15	10	12	
W5SNAK	322	12	6	8	
K5UR	28	111,936	462	25	81
W5SHH	88,179	428	24	67	
K5GL	72,720	286	25	65	
K5MA	54,740	243	23	62	
W5D5CSK	39,590	244	23	51	
K5NW	39,225	202	22	53	
W5VGX	37,191	185	24	53	
K5NF	36,205	207	21	44	
K5RF	30,514	166	23	50	
N5XR	28,743	159	22	45	
W5RRR	26,860	129	24	55	
K5EJW	10,140	77	18	34	
W5IFV	6,837	65	17	26	
K5KLA	21	137,052	451	24	84
K5BZU	75,101	255	27	82	
W5CB	38,761	171	27	60	
K5PO	17,136	219	18	45	
W5SUEL	14,620	80	22	46	
W5SWRY	8,360	58	17	35	
W5BZL	3,936	60	16	25	
W5FO	14	177,781	508	33	106
W5NO	34,272	157	27	57	
W5AFG	2,236	41	10	16	
W5TDO	7	3,240	44	14	25
K5LM	3.8	18,688	127	19	45
K5NU	15,738	108	18	43	
W5USM	1.8	1,458	27	11	16
W6XR	A	1,357,800	1687	98	194
W6RR	A	1,347,974	1373	116	245
K8DQ/6	A	1,160,793	1373	99	284
N6AA	835,775	912	112	219	
N6AR	818,400	876	113	228	
K6PU	804,162	982	107	196	
K6NA	691,878	1006	94	148	
W6PU	650,925	1004	76	149	
W6ENHF	484,029	891	70	127	
W7CB/6	397,416	612	84	148	
W6BH	342,866	499	81	170	
W6PQF	272,896	602	59	105	
K6AO	205,623	382	76	125	
N6AN	201,204	471	67	95	
K6DR	167,650	362	68	107	
W6HXW	159,290	342	61	109	
W6US	151,620	212	104	181	
N6MB	137,880	286	65	115	
W6TKT	129,150	438	43	62	
W6ZUM	112,633	280	72	91	
K6XT	98,332	291	54	68	
W6SWM	96,525	295	57	78	
N6QQ	96,346	295	58	76	
N6HE	93,195	232	66	105	
N6NG	90,395	199	63	116	
W6PQZ	88,320	249	58	80	
W6GN	79,544	241	51	71	
N6HM	76,527	306	41	58	
W6TPH	75,924	207	59	89	
W6IA	73,021	195	52	85	
K6DC	72,447	209	43	80	
W6YVK	71,366	214	56	85	
N6MW	56,684	147	63	85	
K6RK	51,170	162	47	72	
K6SSJ	48,412	153	54	79	
W6SDH	47,785	210	38	57	
W6AKTZ	45,695	172	42	53	
W6CPL	45,260	120	35	91	
N6OS	42,448	148	43	69	
K6QX	35,712	138	36	57	
W6UFY	25,080	125	35	41	
W6BZE	23,634	124	32	46	
W6XN	23,154	94	44	58	
N6IH	20,340	91	41	49	
N6UW	19,173	99	33	44	
W6BKOR	17,040	104	25	35	
W6ZHD	13,990	73	25	40	
W6BPA	9,834	65	28	36	
W6QDE	9,308	65	24	26	
N6IC	8,925	61	21	30	
W6MZQ	8,602	73	18	28	
W6TLA	7,520	59	20	27	
K6KUQ	4,410	36	19	30	
W6NKR	4,343	37	19	24	
K6SMH	3,526	37	20	21	
W6SUG	2,242	22	18	20	
W6AGCZ	1,972	33	14	15	
W6BXP	28	238,056	912	27	64
K6XM	92,736	475	22	47	
W6GNA	43,127	313	21	40	
W6EKL	21	457,532	1477	27	80
W6DNM	352,569	1189	27	76	
N6ND	311,400	1078	25	75	
W6HX	241,374	840	26	72	
W6AM	221,403	882	24	67	
K6HNZ	116,058	587	23	46	
N6VV	65,965	302	22	57	
W6TFS	29,900	206	20	30	
W6QDR	416	41	7	6	
W6EUF	14	103,615	325	31	84
N6KA	81,477	306	30	69	
W6OK	53,605	264	26	45	
W6BEH/6	26,936	136	24	50	
K6SE	1.8	2,088	91	12	17
N7DD	A	1,973,618	1795	126	260
K7RI	A	1,332,555	1772	97	162
N7XX	A	1,236,756	1558	98	178
W7EJ	A	1,057,920	1309	94	196

W7NI	915,045	1218	93	172	
W7GOV	572,769	981	83	124	
W7BUN	402,426	887	52	106	
W7OTD	280,756	694	59	89	
W7ZT	248,094	519	62	117	
W7MB	159,150	373	57	93	
W7JYW	143,592	431	49	75	
DL1UF/W7	138,919	332	71	102	
K7UJ	126,690	408	47	76	
W7UZ	96,370	209	64	110	
W7HXG	66,640	209	43	76	
K7YDO	60,499	238	39	62	
W7ZMD	59,376	187	62	85	
K7NF	58,016	212	39	58	
W7URW	54,131	236	34	49	
K7ZA	53,148	218	37	43	
W7BG	22,980	118	37	43	
W7WG	21,120	119	29	48	
W7WW	19,584	70	39	59	
K7EQ	16,353	86	39	40	
W7BPN	14,852	70	41	53	
W7JCN	12,672	73	22	42	
W7TTM	11,233	84	21	26	
K7RS	10,927	86	23	26	
W7JUJ	9,882	61	26	35	
W7GZA	8,820	60	29	34	
W7GUR	6,160	44	24	32	
K7ZR	3,811	40	19	18	
W7ZJ	2,146	28	14	15	
W7AYJ	28	23,267	162	18	35
W7LZF	22,656	129	18	26	
K7MKS	20,000	156	20	30	
K7IDX	17,802	143	18	28	
N7DX	6,027	63	16	25	
W7SHW	1,566	23	13	14	
W7UWE	21	296,700	1149	25	67
K7NN	258,100	874	26	48	
K7XX	63,560	332	22	36	
W7YKN	32,190	205	22	36	
W7ATF	14	246,962	696	34	100
K7OX	235,103	690	35	65	
K7TM	166,535	631	30	65	
W7IL	155,325	583	29	66	
W7GVM	125,528	563	31	73	
W7FP	119,000	421	33	67	
W7MLJ	18,020	128	21	32	
W7QYG	408	61	9	8	
W7BY	7	79,488	397	25	47
K7UR	13,356	81	24	39	
N7RK	3.8	17,748	125	19	39
K8MR	A	237,888	386	75	161
K8MN	160,962	323	64	129	
K8US	160,060	315	76	136	
K8TMK	93,378	224	50	108	
W8CR	68,949	189	47	94	
K8CV	50,570	132	44	86	
W8BPH	43,632	160	35	66	
W8LFO	31,556	122	37	61	
W8YGR	20,874	85	37	61	
K8JK	19,184	84	30	58	
W8HM	15,392	82	26	58	
W8HU	8,415	60	17	34	
W8ILC	8,382	61	25	41	

DJ3ST	78,300	250	46	134	182LV	33,705	324	15	48	Y04AYE	21,248	237	13	51	UAGLBO	258,125	1117	35	90	KH6DD	427,710	1371	33	73
DJ4UP	71,820	219	55	134	116FK	600,425	7364	38	137	Y03JU	180	7	5	7	UAGHZ	222,456	1003	34	90	W6PSD/KH6				
DF3TJ	71,371	355	37	112	13MSN	263,652	1094	31	96	Y06VZ	5,848	170	6	28	UW1AE	199,892	855	32	89		23,112	151	19	35
DA1BD	55,860	218	45	95	14FAQ	119,556	531	24	84	Y08BDA	4,608	109	7	29	UW3AX	126,936	614	22	60	KH6GX	116,416	606	28	40
DF2KD	54,036	251	32	104	13ASK	20,940	285	13	47	Y06LV	520	16	6	14	U1A1AP	67,080	473	21	65	KH6CHC	1,405	36	7	6
DK8AX	49,980	263	36	104	1KSFCK	81,774	651	23	76	SARDINIA					U4A4CZ	26,767	234	19	52		543,535	903	74	137
DL1YA	44,660	188	38	107	1K6FLD	73,960	650	21	65	IS6MVE	293,880	931	46	140	U4A4FR	16,925	219	15	42	YB2SV	15,813	101	26	37
DF4KA	30,821	162	34	85	138BZ	39,455	587	14	51	IS6PJ4	84,096	537	24	72	U4A4CO	9,348	99	11	46	YB2QV	4,540	41	18	22
DK5KJ	21,600	138	30	78	13MAU	69,280	637	15	65	SCOTLAND					U4A3WZ	5,920	102	8	32	YB8ACB	149,786	603	30	61
DK8KC	20,700	141	28	64	14UVA	3,488	106	6	26	GM3BCL	64,629	274	37	92	U4V3CS	495	15	3	11	YB2CR	9,000	104	9	21
DA1EG	15,800	113	24	55	LUXEMBOURG					GM3SSB	25,740	131	29	81	U410DZ	112,615	668	30	71	YB2CT	620,546	1502	36	110
DF1FH	8,757	78	21	42	XH1GG	87,750	441	31	94	GM4CHX	4,004	77	9	17	U4W3RR	10,516	206	9	32	KX6LA	405,878	1523	28	63
DK9IP	3,192	27	18	24	MALTA					GM3XNJ	29,990	217	16	58	U4A4PD	2,516	52	8	26	Marshall Is				
DK3SN	26,320	154	16	54	NETHERLANDS					IG6SKO	26,519	1718	29	99	U4A6TW	19,688	251	11	35	New Zealand				
DL1KS	1,764	46	7	21	PABTAU	78,008	176	65	130	IT9KZU	11,220,700	1106	24	76	U4A6LL	11,033	177	8	39	ZL1BOK	1,421,956	1682	96	192
DK02Z	457,800	1677	25	80	PAPCYW	76,032	230	59	117	IG6SW	220,700	1106	24	76	U4A3EAL	9,633	200	8	31	ZL1BIL	1,150,877	1289	109	202
DL06Q	304,902	1014	28	89	PA9CLC	65,830	245	36	109	IKLNNK	130,900	786	28	82	U4A4FA	9,102	165	8	33	ZL1BOD	730,712	1061	94	147
					PABUMJ	44,730	250	26	100	IT9MPP	151,340	609	30	85	U4A1AGL	1,083	50	5	14	ZL1AGO	246,960	1715	61	83
					PABTO	25,330	143	30	73	SPAIN					KALININGRAD					ZL1AHO	246,960	1715	61	83
					PABKHS	9,486	112	20	42	EA1PT	1,163,480	1515	84	256	U2A2WJ	204,798	534	51	163	ZL1A2G	188,576	382	52	90
					PABGWS	5,510	74	17	41	EA2GF	389,803	761	69	182	U2A2EC	81,345	257	50	115	ZL14J	73,843	343	36	41
					PABWRS	3,969	79	11	38	EA3QJ	146,484	513	27	90	U2A2FBZ	38,115	308	21	56	ZL14T	11,600	81	30	28
					PABKDM	3,969	79	11	38	EA3NA	131,569	336	62	137	LATVIA					ZL2ACB	25,054	651	34	100
					PABRAB	3,952	37	17	21	EA3AOO	21,900	168	23	52	U2Q2GQ	538,460	1143	67	193	CANARY ISLANDS				
					PABRRS	21,834	52	11	16	EA2LY	4,686	62	22	40	U2Q2DV	33,988	195	34	82	EA8JJ	766,125	1900	31	104
					PABRW1	67,680	326	26	70	EA2IA	14,603	400	21	58	U2Q2GA	9,792	160	16	35	EA8URE	45,640	215	16	56
					PH1PT	21,868	217	19	57	EA3VM	7,860	122	12	38	U2Q2HW	1,708	43	8	20	MADEIRA ISLANDS				
					LAING	598,886	1203	61	190	SWEDEN					U2Q2HO	9,964	103	15	38	CT3BD	705,928	1301	56	120
					LAISEV	115,552	112	26	62	SM3BIZ	277,065	650	61	74	U2Q2GFN	15,708	313	7	37	Rhodesia				
					LA5HJ	8360	71	21	55	SM5CSS	68,585	293	39	106	LITHUANIA					ZE3JO	30,030	182	9	46
					LA6XJ	624	20	10	14	SM7BYP	61,887	229	47	100	UP2NV	735,585	1336	77	208	ZE1BL	36,812	128	23	63
					LA2DR	20,890	100	22	68	SM7AIO	12,600	116	20	55	UP2SA	659,256	1031	89	223	Sierra Leone				
					LA2ZN	43,928	365	21	55	SM6BXV	8,190	55	25	45	UP2DU	233,208	632	58	179	9L1SL/A	3,695,580	2968	107	312
					LA4EU	238	17	3	11	SM6BDS	3,627	55	15	24	UP2PBA	125,296	364	49	142	SOUTH AFRICA				
					SP5ALP	126,074	557	45	124	SM7AAQ	1,824	42	5	14	UP2BBF	45,160	288	29	100	ZS6SW	561,448	1249	55	123
					SP9BFL	115,440	456	40	116	SM4AZD	805	22	9	14	UP2BWA	14,382	108	32	70	Ogasawara Island				
					SP9KDC	68,310	366	33	103	SM5ERK	5,070	111	11	28	UP2BGC	2,204	60	8	21	Philippines				
					SP9DYD	68,622	216	33	90	SM7GFE	4,403	76	11	25	UP2BAT	31,725	220	18	57	Saipan				
					SP9DZG	38,592	201	35	99	SM6HO	2,090	55	13	25	UP2AV	4,305	78	11	24	K9PNT/DU2	162,964	637	41	46
					SP7ETG	29,892	284	20	74	SM5DUJ	756	27	6	12	UP2PM	70,191	400	28	70	Solomon Is				
					SP9CTW	26,691	102	36	87	SM7ABL	21,603	135	19	38	UP2PT	26,466	242	19	47	VR4DX	938,616	1305	102	157
					SP9CEA	22,125	168	23	52	SM5CAK	14,280	240	5	15	UP2NK	136,100	849	25	75	SOUTH AMERICA				
					SP9DMT	19,364	147	27	67	SM5RE	4,585	75	11	24	UP2ND	11,603	257	8	33	ARGENTINA				
					SP1OT	17,711	148	24	65	SM6KV0	336	14	5	9	UP2PBW	14,040	334	9	39	LUSEPI	111,754	531	24	48
					SP6YF	17,325	159	21	78	SM5AD	14,370,778	1190	33	101	UP2BDH	53	234	6	21	LUMBI	39,990	180	22	40
					SP7CDG	16,536	122	34	72	SM4BNZ	294,998	1074	30	91	U050DX	112,470	490	39	124	LJ8FEU	403,524	1047	32	100
					SP2GNB	8,664	135	12	45	SM3DSP	156,472	661	29	80	U05AP	36,875	272	3	94	LJ95AL	342,927	995	33	84
					SP3CDD	8,194	90	20	46	SM2HQZ	241,114	379	17	44	U05BZ	14,310	135	15	39	LU1HE	32,550	394	26	62
					SP6HRK	7,616	100	19	45	SMBAJ	30,033	313	18	63	U050AK	26,733	227	18	49	BOLIVIA				
					SP3ADZ	7,020	65	13	41	SWITZERLAND					U05GR	15	85	7	28	CP1AT	147,109	394	50	97
					SP7BFC	2,964	27	14	25	H89LP	337,212	2204	41	112	UKRAINE					BRAZIL				
					SP5BSG	2,925	54	13	32	H89GI	82,075	270	51	124	UB5EC	1,535,866	2077	87	247	RY3APH	1,239,833	1620	79	180
					SP6DB	1,224	24	12	22	H89DU	22,236	87	27	82	UB5EG	702,770	1190	75	195	RP1ZBM	961,306	1948	53	113
					SP7JBE	357	19	6	11	H89UD	1,950	50	7	19	UB5MEB	56,055	353	29	82	RY2BW	733,700	1020	83	170
					SP9AI	26,418	273	21	63	WALES					UB5MFX	53,448	275	36	95	PV2AZ	278,924	693	54	87
					SP3GEM	24,696	294	24	60	GW3GHC	32,700	327	18	51	UB5MA	58,384	328	32	76	PV7AZQ	235,248	474	54	120
					SP9ADU	2,448	62	3	26	GW3SLA	50,102	364	19	63	UB5MB	26,370	155	25	65	P2T2F	165,590	493	43	100
					SP6AEG	1,600	33	10	22	GW3MPB	21,024	175	15	57	UB5MAB	11,115	143	13	44	PV8ZLC	73,568	335	30	46
					SP5SIP	612	29	6	12	YUGOSLAVIA					UB5MAV	11,060	106	19	51	WI2RS	63,544	259	39	55
					SP9PE2	22,660	192	15	36	YU1NZW	70,125	274	45	142	UB5MAV	11,115	143	13	44	P2H/PY2				
					SP8IMA	18,618	167	14	34	YU5EY	65,096	276	45	113	UB5MEO	702,770	1190	75	195	PT2HO	20,436	104	33	45
					SP9AOM	10,727	109	12	45	YU3TE	47,424	220	37	115	UB5MVAZ	31,672	301	20	54	PT2CD	14,580	69	31	50
					SP7FPG/1	3,224	54	11	20	YU3TPM	110,994	491	26	92	UB5GBD	30,448	219	24	64	PT2CFF	7124	61	23	29
					SP2FAP	52,008	355	25	63	YU3TEY	104,765	541	29	85	UB5VCD	19,698	21	16	51	PV2FEA	5735	80	15	16
					SP8HKN	37,752	355	18	60	YU2CAW	107,290	266	23	66	UB5LAN	16,364	178	16	41					

Contest results (from page 43)

VENEZUELA				
N7DC/YVS	A	444,600	864	63 117
YV4ACY		254,492	602	42 107
OAMPQ/YV5				
		48,433	224	34 43
YV4BDE	28	422,400	1808	23 57
YV2AMM	14	966,328	2068	34 124
YV4YC		743,552	1964	27 101
YV6AUZ		198,000	689	26 73

MULTIOPERATOR SINGLE TRANSMITTER NORTH AMERICA

United States				
W1ZA		1,888,029	1437	124 365
K1PR		1,621,992	1313	121 335
K1RU		1,410,395	1255	113 300
K2LE1		887,832	916	95 260
W1HCO		521,420	645	95 215
K1IU		458,436	558	87 215
K1RO		215,059	391	64 169
K12X		52,394	157	43 91
K1IK		30,448	125	38 50
K2BT		1,332,910	1177	113 297
W2YV		782,751	847	98 241
N2MM		557,096	657	94 238
K2UO		337,502	517	78 175
W2UJ		235,750	387	73 157
WB2DJN		166,617	333	56 131
N2HI		108,580	234	54 124
K2GXT		63,936	188	51 97
N3RD		1,411,586	1115	117 335
W4NL3		1,293,150	1022	127 339
K3RA		977,454	883	107 307
N3AW		795,025	940	86 209
K3RS		675,510	785	98 232
N3UN		669,700	672	100 270
W3HB		322,428	453	92 185
W3ANAN		169,624	348	59 123
W3KA		61,287	229	21 72
N3MM		27,664	104	45 67
W4DR		1,642,194	1217	123 363
N4PN		1,513,932	1182	127 342
K4VX		1,294,154	1107	118 303
W4FDA		1,101,240	994	105 294
W4QAW		920,808	893	106 272
N4HU		652,460	702	103 237
W4APYF		423,594	539	92 211
W4LVM		372,970	473	90 212
W4EJNJ		346,368	490	87 177
K4JNM		334,642	443	85 202
WB4SFM		241,875	423	65 150
W4ALZR		230,690	380	73 157
W4DRE		198,220	329	68 145
W4AJTC		164,749	267	80 167
W4AFOT		158,080	293	70 120
N4YN		121,152	236	71 121
N4YO		54,316	169	46 102
K5JA		2,643,580	1802	140 384
K5TM		990,396	974	112 257
N5DX		734,187	751	114 267
K5FUV		135,946	268	71 131
K5NA		84,456	167	81 126
N6SV		1,994,298	1829	120 259
W6QKK		1,233,240	1278	113 231
W6GIM		1,104,104	1229	109 207
W6JUD		980,672	1056	96 195
N6MG		843,364	853	116 240
W6YX		827,576	1166	81 167
N6KT		768,802	1040	90 179
W6VLD		740,880	951	97 183
W6KG		542,250	845	84 141
W6BIP		331,058	540	81 140
W6GAHF		327,429	593	74 127
W6ZYC		231,012	410	75 132
W6BOPD		149,086	361	65 96
K6LY		136,271	400	61 66
K6YK		60,697	253	36 55
W7VRO		778,277	964	100 189
W71SX		622,998	900	92 157
K7SA		617,715	832	90 175
W870QW		84,645	327	43 52
W8TA		1,181,657	1034	117 316
N8RA		1,008,808	1031	102 274
N8JW		980,954	969	105 272
W8FF		783,052	879	96 228
K8XX		537,251	700	86 201
W8DJLM		52,920	167	46 80
WB8ZJW		43,670	148	37 73
WB8VOT		33,495	206	43 62
K8HJL		22,725	108	41 60
W8RLUJ		1,749	28	5 5
W8RX		649,368	706	103 245
W8YH		238,134	394	88 170
WB8TQX		149,650	297	64 141
W8CAF		37,962	172	43 71
W8FG		1,566,416	1452	117 259
N0XX		327,104	441	97 172
N0DX		255,852	359	89 187
W0DDCB		75,384	212	58 96
W0DAX		126	116	4 5
ALASKA				
KL7RW		831,992	1787	77 102
KL7HR		389,697	1096	59 88
KL7IRT		295,916	975	50 66
CANADA				
CY1NN		1,055,361	1829	65 172
CY1UNB		926,250	1333	88 197
CY3K		3,433,560	3380	111 292
VE3AKG		2,575,722	2633	109 284
VE1BU3		185,866	413	70 129
VC9UM		1,015,740	2337	72 137
VE4EW		776,160	1322	85 167
VE6HN		667,480	2048	57 91

CANAL ZONE				
KZ9DX		2,437,728	2796	102 277
MARTINIQUE				
FM9FC		6,382,004	5739	128 380
MEXICO				
XE2MX		1,627,817	3197	85 142
MONTSEERRAT				
VP2MSA		2,946,680	2881	107 407
SAINT MARTIN				
F60DWT/FS		396,011	1350	51 88
AFRICA				
EGYPT				
VE3HYU/SU		357,520	742	43 121
SENEGAL				
6W8MM		4,942,160	4371	99 280
SOUTH AFRICA				
ZS6YS		3,165,029	2797	113 266
ASIA				
ASIATIC RUSSIA				
UK9ABA		2,035,364	2110	89 254
UK9AAB		1,467,230	2223	95 215
UK9HAC		459,888	1065	59 142
UK9FAA		384,416	1279	69 97
UK9AAO		371,008	909	54 128
UK9QAA		253,287	616	44 115
UK9HAP		74,529	327	28 63
UK9JAA		7,223	86	8 23
GEORGIA				
4L6M		5,993,520	3938	117 403
UK6VAF		155,375	498	27 86
INDIA				
VU2IIT		222,019	565	63 134
JAPAN				
JH1YMC		1,626,352	1553	123 234
JY1YQC		396,990	837	62 133
JAGYKA		358,970	604	60 133
JAYFT		243,566	455	75 118
JAYFB		197,750	345	70 105
JAYAK		78,020	325	34 49
EUROPE				
ALAND ISLANDS				
OH9AC		1,051,200	1533	94 266
BELGIUM				
ON6MP		881,488	1348	69 227
BYELOS RUSIA				
UK2AAB		163,194	701	52 125
UK2AAG		52,796	242	40 94
UK2OAA		45,234	182	37 89
CZECHOSLAVAKIA				
OK1KSO		1,502,616	1657	101 309
OK3KAP		548,900	1028	67 208
OK1KPU		308,490	817	52 143
OK3VSL		271,714	685	56 150
OK1KSL		234,493	637	56 185
OK1KUR		111,600	446	42 113
OK1KCI		102,070	428	45 128
OK1KJR		51,435	326	26 101
OK3KJL		13,912	138	18 56
OK1KRY/P		13,840	160	16 64
OK1ONC		13,585	220	10 55
OK1KYS		558	11	9 9
ENGLAND				
G6UW		1,912,292	2179	96 286
G6JC		1,181,534	1626	86 237
G3VPW		1,170,246	1513	90 268
G3KMI		835,780	1374	73 217
G3RCV		497,776	1041	
ESTONIA				
UK2RBA		924,704	1703	69 215
UK2RQA		9,350	127	17 43
EUROPEAN RUSSIA				
UK6LAZ		2,071,380	1914	123 351
UK3ABB		2,028,262	2319	97 285
UK3AAO		1,722,174	1786	104 290
UK4WAR		1,148,511	1645	82 191
UK3XAA		1,106,336	1480	94 258
UK3SAB		823,072	1386	77 195
UK1CAA		821,168	1424	72 200
UK3AAH		625,314	1157	79 188
UK3DAH		444,960	934	60 180
UK6AJA		402,405	997	56 137
UK3MAX		381,472	942	53 129
UK4LAC		377,337	911	55 164
UK3TBF		96,876	317	47 115
FEDERAL REPUBLIC OF GERMANY				
DL9WU		3,682,462	2727	117 401
DK0TU		1,584,508	1891	96 262
DL0UE		1,247,750	1541	91 259
DL8DC		873,280	1159	85 235
DL1MD		636,650	967	86 264
DL0RCA		413,466	853	66 208
DL9KA		404,940	757	69 186
DF3QG		189,070	468	58 127
FINLAND				
OH3EW		857,310	1470	72 183
OH80S		846,612	2688	37 97
OH1PS/2		551,131	957	76 225
OF2AA		514,800	940	81 249
OF4RH		465,744	944	73 175
OF3AD		160,979	550	60 143
OH2IO		68,761	288	37 96
GERMAN DEMOCRATIC REPUBLIC				
DM2DUK		2,528,706	2820	98 303
DM2AYC		491,970	1000	61 169
DM4ZA		14,100	293	8 39
HUNGARY				
H8KOB		988,688	1818	77 226
H47KLG		944,240	1661	74 216
H4SKFN/5		553,254	1171	65 181
H4SKKC/2		349,758	887	61 193
H4AKYH		295,218	721	65 166
H4SKKO/2		196,176	683	44 157
H4KVB		183,400	835	40 135

H46KNI		136,125	650	41 124
H42KRL		4,000	55	18 32
ITALY				
I1KN		2,071,148	2038	105 349
I1GUB		2,064,742	2309	59 308
I0GPP		1,247,428	1742	92 272
JERSEY				
GJ4BTY/A		34,882	246	28 80
KALININGRAD				
UK2FAD		70,035	397	28 87
LATVIA				
UK2GKW		1,111,500	1532	87 225
UK2GDZ		241,557	615	60 159
UK2GAX		80,652	447	39 93