

Results, 1993 ARRL International DX Contest

Although I only participated casually, it opened my eyes to a different kind of operating—PV8ZDC

By Trey Garlough, WN4KKN, and Billy Lunt, KR1R
Editor, *National Contest Journal* Contest Manager

Someone swiped the ionosphere! The lower bands were sizzling, but the upper HF bands were burnt. It's time to fire up your personal computer and set Brian Beezley, K6STI's, *Yagi Optimizer* program loose figuring out how to make low-band antennas, preferably from spare parts of former 10-meter Yagis. Although conditions on 10 meters remained good longer than anyone expected, signs of the solar decline were clear during this year's phone contest, March 6-7, 1993 (the CW weekend was February 20-21). Dave, G4BUO, says, "I decided to go single band on 28 MHz and I made 1320 QSOs on Saturday, but conditions took a dive on Sunday and I managed only five QSOs the entire day." Zikes! "It'll be five or six years before I try another single bander on 10."

Indeed. 10-meter US phone record-holder WØUN (WØUA, op) made 2323 contacts in the 1992 event. As the sunspots continue to fade and long-distance communications become more difficult on 10 meters, expect to

see a trend toward lower 10-meter scores, such as WA3EEE's winning effort of 20 QSOs in 1985. During the recent years of high sunspot activity, you might have expected poor activity levels on the low bands, but this hasn't been the case. In the past few years, low-band scores have been as good as those during the previous solar minimum, some even better. Some of these remarkable scores may be attributable to a general worldwide improvement in low-band antennas and equipment. It will be interesting to see if low-band operators will see a dramatic increase in their scores in the years to come as a result of the influx of refugees from the higher bands. Meanwhile, the boom of a stout 5-element 10-meter Yagi is about the right size for a 2-element 80-meter delta loop.

The log count was down this year. ARRL HQ received 3654 logs (1700 CW, 1780 phone and 174 checklogs), compared to 4095 logs last year. Must be that a lot of Novices and Tech-plus licensees couldn't get anywhere on 28-MHz phone.

W/VE Highlights

The race to the finish in the single-op phone category was fast and furious (see the

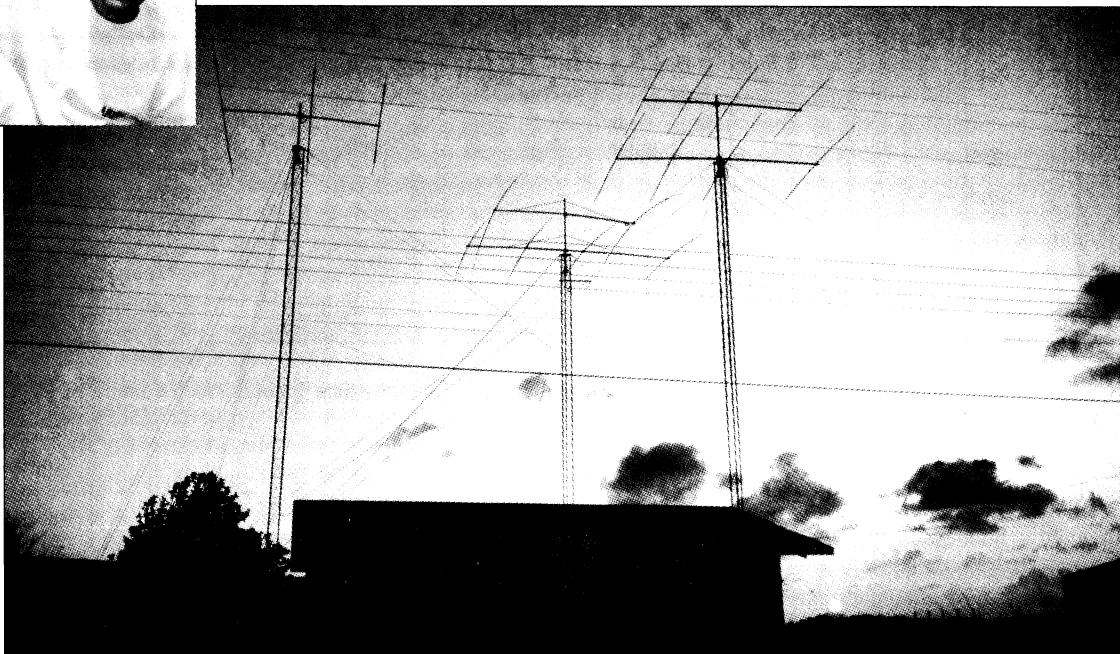
sidebar). Doug, K1DG, came from behind to win a narrow victory over neighbor Dean, N6BV/I, and more distant neighbor Jeff, K1ZM. N5RZ and VE7SZ (VE7NTT, op) made strong showings from points west. On CW, Jeff, K1ZM, edged KM1H (KQ2M, op) for the top spot. VE3EJ and K5GN were the only stations away from the Eastern Seaboard to crack the top 10.

Chas, K3WW, was top dog on CW in the single-operator-assisted category, or as he calls it, "single-operator distracted." Bill, KM9P, was the top packet-assisted op on phone from N4RJ's place. Ace, N3AHA/6, gets an honorable mention for a nice showing from the West Coast. Jeff, N8II (phone), and perennial barefoot op Kurt, W1PH (CW), won the low-power races this year, and QRP man Randy, AA2U, again blew away the pack on both modes. Looking at his track record in the "peanut-whistle" category over the past several years, you will see Randy has definitely established himself as the man to beat.

Among the single banders, W1FJH (AD8V, op) squeaked by K4TEA on CW, and WB9Z took the phone trophy on top band. John, W1FV, was top 80-meter code man again and W6RJ put in a strong West Coast



The top multisingle CW score went to Carl, Al6V (r), and Dave, W6QHS (l), who operated from Aruba as P49V.



1994 ARRL International DX Contest

CW
February 19-20

Phone
March 5-6

It Ain't Over Till It's Over

Friday afternoon

Dean Straw, N6BV/1, and Doug Grant, K1DG, live on adjacent hilltops in Windham, New Hampshire. While operating at the same time on the same band, when one guy transmits, the other guy listens, whether he wants to or not. This isn't enough to dampen the zest with which they pursue the single operator championship in the phone weekend of the 1993 ARRL DX Contest. In the small eastern New York town of Hopewell Junction, Jeff Briggs, K1ZM, is doing some last-minute dialing around the bands, deciding which will be best to start the contest.

0000Z-1200Z

With a blazing start into Japan on 15 meters, Jeff takes the lead early and is already piling up the multipliers. The second place position changes hands between Doug and Dean for the first of nine times during the weekend. Dean catches some sleep.

1200Z-2400Z

Jeff seems to be getting more out of 10 meters than the others and is building up a tremendous multiplier total. Doug sticks with 15 meters, his "money band," and is leading in QSOs by the midpoint. Dean finds enough multipliers to compensate for Doug's QSO total and leapfrogs back into the No. 2 slot. Jeff's multiplier total is 465 at midnight Zulu, a 67-country advantage over Doug.

0000Z-1200Z

While Dean and Doug are dozing, Jeff builds a commanding lead. Dean gets back on the air at 0800Z and begins slowly reeling in Jeff, who takes a little sack time. Doug goes to bed early and wakes up with the Europeans at 0500Z.

It's the nature of on-the-air competitions that you can't tell your current standing during the event. Although Doug has a good multiplier total by historical standards, he has no way of knowing he's getting whipped by Jeff and Dean.

1200Z-1800Z

Conditions are poor. Ten meters is nonexistent. Everyone is on 15 meters and all three ops are having trouble finding a place to call CQ. Jeff is showing signs of slowing down and Dean pulls to within 100k points. Doug starts to fill in some of the blanks on his six-band DXCC "bingo card" by finding 40 new ones in six hours.

1800Z-2100Z

Conditions are poor. Everyone has lots of time on their hands. Jeff maintains his 100k lead over Dean. Dean starts losing ground to Doug.

2100Z-2300Z

Doug tracks down enough multipliers to pass Dean for the final time. Jeff's multiplier lead is down to 38. Jeff is running out of guys to work and has a scant 40k lead.

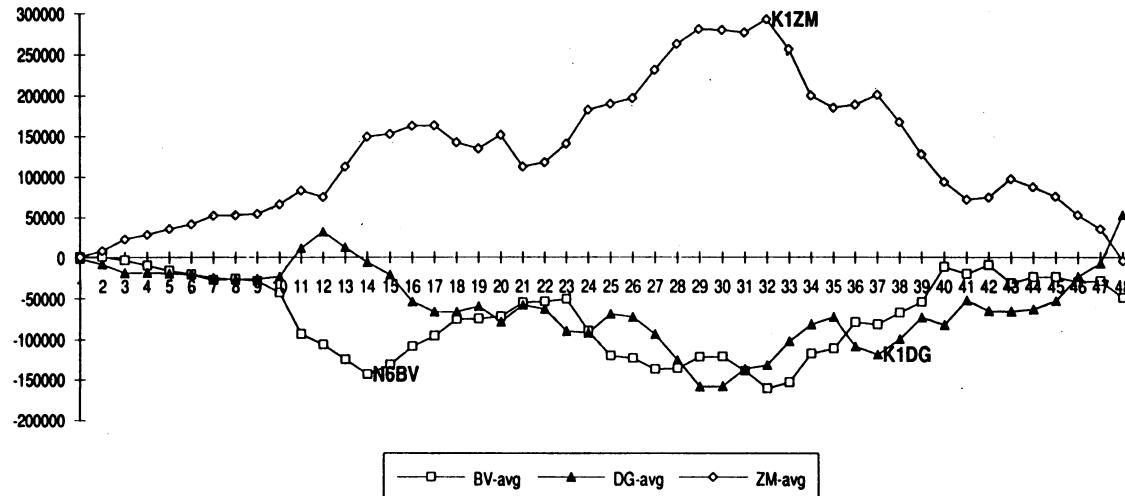
2300Z-2400Z

Jeff runs out of guys to work and makes 13 QSOs in the final hour. Doug makes 40 QSOs and finds 11 new ones. For the first time in the contest, Doug takes the lead. He hangs on for the last 30 minutes to win his first single-op US championship by 48,411 points. Dean finishes a close third, 70,533 points behind Jeff.

2400Z

It's over.

Top 3 Scores minus Average, 1993 ARRL SSB DX Test



showing on phone, falling short of WE3C. In an East Coast/West Coast turnaround on 40 meters, W6XX, W5WMU and K7QQ led the way on CW, and Larry, K1UO, was the top op on phone. The 20-meter winners were Steve, K5MR (phone), and Phil, KT3Y (CW), with his dipole in a tree. WØUN (WØUA, op) used near record-setting form to win 15 phone, but George didn't have the conditions to do a double on CW, falling to KØLUZ/4. Bill, K4XS, was top man on 10 phone, and Steve,

K5MR, won the CW trophy for a nice double with his effort on 20 phone.

This year's multioperator trophies were hotly contested, with close finishes in five of the six categories. In the single-transmitter division, the K3LR team slipped by the always-contending W3BGN group on CW. The Ohio group at K8AZ captured the phone trophy. K1AR and company captured the multi-two category on both modes from K1EA's home in western Massachusetts, and

in the battle of the titans, N2RM prevailed over W3LPL on phone, with 'LPL taking the top slot on CW.

DX Highlights

The top dozen single-operator scores were represented by stations on five continents on each mode. VP5F (Jeff, KRØY, op) and TI1C (Trey, WN4KKN, op) broke the CW world record (see the sidebar) and EA8EA (Ville, OH2MM, op) smashed the old ZD8Z Africa

TOP TEN**W/VE CW**

Call Sign	Score	160	80	40	20	15	10
K1ZM	3,324,672	75/46	413/68	272/77	758/85	764/89	214/79
KM1H (KQ2M,op)	3,281,718	40/33	226/54	350/69	870/96	825/94	306/70
W1KM	3,100,629	41/26	382/65	494/74	686/85	646/84	278/75
N2LT	2,920,020	48/32	97/42	308/42	892/91	670/91	359/81
N6BV	2,912,112	39/24	155/48	477/76	727/75	942/85	228/68
KS1L (K1CC,op)	2,873,016	25/17	152/46	451/77	734/78	817/79	368/79
K3ZO	2,474,604	31/29	199/58	457/86	626/74	472/75	298/74
VE3EJ	2,351,700	32/28	111/48	301/75	588/81	574/79	404/79
WR3E	2,346,000	33/21	115/49	512/76	600/71	682/80	183/70
K5GN	2,339,064	34/26	123/48	560/77	366/82	620/81	286/78

W/VE Phone

Call Sign	Score	160	80	40	20	15	10
K1DG	4,082,463	29/25	171/60	166/65	846/114	1019/113	646/95
K1ZM	4,034,052	44/36	211/72	122/64	794/112	907/109	606/108
N6BV	3,963,519	25/21	161/54	139/64	909/123	830/107	753/100
W9RE	3,414,534	17/14	89/53	100/58	717/110	969/115	615/104
N2LT	3,238,497	19/18	90/43	108/62	649/111	755/109	762/110
W3BGN	3,097,584	28/23	134/56	113/58	734/101	813/106	530/94
K3ZO	2,728,713	14/13	135/51	140/56	716/91	843/98	409/93
WR3E	2,664,810	22/18	104/48	147/62	483/99	876/113	410/94
N5RZ	2,565,888	25/21	73/42	324/57	237/86	800/101	597/108
W2SC	2,455,479	16/15	84/39	186/67	650/104	499/95	596/83

TOP TEN**DX CW**

Call Sign	Score	160	80	40	20	15	10
VP5F (KR0Y,op)	6,489,216	341/50	719/57	1114/59	1278/59	1338/59	1498/60
T11C (WN4KKN,op)	6,282,198	331/48	656/58	972/59	1151/59	1492/59	1521/59
P40M (KG5O,op)	4,845,000	332/47	493/57	719/59	881/59	1049/59	1278/59
EA8EA (OH2MM,op)	4,730,226	81/25	507/49	793/55	1135/58	1288/58	1417/57
ZF1A (KT6V,op)	4,204,098	224/38	500/51	599/52	841/56	1064/56	1278/58
ZF2TV (AA6KX,op)	4,059,333	116/32	500/50	699/54	874/57	1033/58	1157/58
CR7M (CT1BOH,op)	3,468,867	137/31	442/44	753/54	882/56	1232/58	555/46
4M5V (K3UOC,op)	2,603,040	200/38	588/51	470/52	494/48	949/54	291/47
8P9EA (OH0XX,op)	2,571,336	113/31	310/46	315/43	675/55	850/54	755/55
PJ9JT (W1BIH,op)	2,485,728	113/33	256/43	502/49	670/54	578/55	758/54

DX Phone

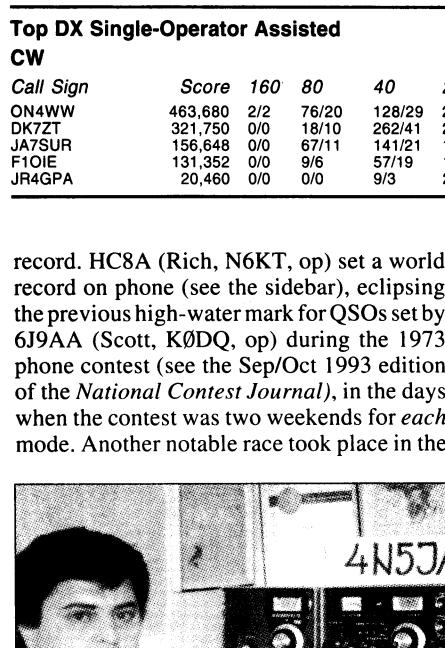
Call Sign	Score	160	80	40	20	15	10
HC8A (N6KT,op)	10,114,020	111/35	585/56	700/55	2279/59	1431/58	5364/59
KH6/WR6R	5,329,242	159/41	634/53	456/53	1231/57	518/58	2536/59
HH2PK	5,026,194	220/37	393/48	541/51	761/58	949/57	2556/58
J76EK (N6EK,op)	5,010,870	75/27	248/46	670/51	923/55	1516/58	2230/58
EA4KR/EA8	4,643,001	0/0	410/52	337/48	1365/58	1299/57	1800/82
4M5V (K3UOC,op)	4,544,712	260/44	419/52	288/48	1044/55	1481/59	1302/58
J37K (W8KKF,op)	3,817,011	54/18	50/20	245/41	1455/59	919/57	2306/58
A22MN (KRMN,op)	3,332,238	0/0	11/9	306/39	1302/57	1176/58	2231/58
TO5M (FM5CD,op)	2,741,370	0/0	473/50	570/57	526/54	1163/58	603/55
5U7M (JH4NMT,op)	2,269,938	0/0	41/19	193/29	863/59	1269/54	1220/50

TOP TEN**W/VE Single-Operator Assisted—CW**

Call Sign	Score	160	80	40	20	15	10
K3WW	3,294,162	43/36	90/56	453/92	764/105	624/93	328/93
K5NA	2,991,663	43/40	216/63	330/95	492/102	539/97	411/94
W3XU	2,656,389	29/29	105/48	283/78	631/91	573/97	396/94
W2GD	2,540,622	55/43	142/57	295/92	627/102	403/99	235/86
K3IPK	2,363,604	21/20	113/55	341/89	625/93	534/88	194/86
KC1XX	2,346,408	19/19	67/47	407/84	576/96	596/93	171/85
KC1F	2,061,252	34/23	94/37	210/65	787/92	603/85	119/69
AA4NC	1,954,701	40/36	91/45	193/72	460/86	584/80	265/70
N2MM	1,716,162	31/24	61/41	257/80	349/85	457/90	254/85
AA3B	1,658,748	21/18	108/42	166/68	454/97	473/95	150/83

W/VE Single-Operator Assisted—Phone

Call Sign	Score	160	80	40	20	15	10
N4RJ (KM9P,op)	4,534,068	32/29	90/53	144/76	708/129	1137/125	693/127
K3WW	3,415,464	35/29	92/59	89/78	692/134	570/115	645/118
K1TO	3,074,415	28/23	109/53	95/67	746/117	742/122	393/103
K3IPK	2,818,314	26/24	58/46	96/70	710/124	636/115	407/107
N3AD	2,753,184	27/24	72/50	113/68	620/126	613/110	459/104
KC1F	2,386,068	12/12	58/39	85/61	890/127	572/97	237/93
N3AHA	2,052,648	6/5	42/26	441/47	278/83	856/97	366/86
KG4W	1,899,450	27/25	109/53	98/71	472/115	361/96	283/109
NW3Y	1,790,712	13/12	64/41	64/52	304/92	608/106	375/115
N8ATR	1,692,600	23/19	58/50	81/69	278/97	427/109	373/111



Venco, 4N5JA, remarked, "Although I enjoyed the contest, I didn't hear any stations from the West Coast."

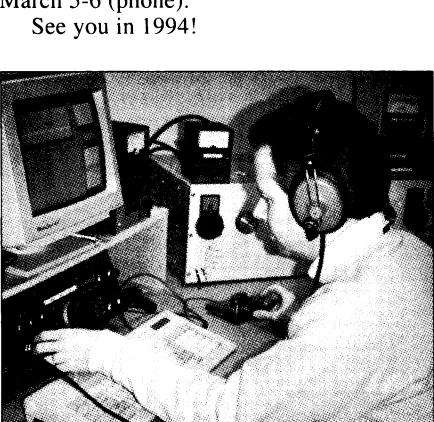
QRP phone division, where V7A (V73C, op) won a duel with Dan, K7SS/KH6.

Among the phone multiops, PJ0B handled V31DX in the one-transmitter class, I3MAU took the unlimited class, and the 6D2X team marched to a world record in the multi-two category, with an honorable mention to the 100-watt VP9DX effort. On CW, the old-guy team of Carl, AI6V, and Dave, W6QHS, piloted P49V to the top spot in multi-one. ZL3GQ surprised HG5A in the two-transmitter class, and 9A1A was top multi-multi.

Club Competition

In the club competition, the Mad River Radio Club took the medium category, defeating the North Coast Contesters (NCC). Although the NCC had a lower aggregate score, the average score per log was 1.4 million points, compared to 933k points for Mad River. In the local category, the River City Contesters group of Sacramento, California, won the gavel and the Frankford Radio Club (FRC) won overall club honors with another strong showing. Clubs play a large role in contest activity, Elmering newcomers, helping to scrounge raw materials, managing club resources and getting people

on the air. Activity by two clubs, the FRC (163 logs) and the Yankee Clipper Contest Club (121 logs), accounted for 15% of the W/VE logs received! Do your part and help your club get ready for next year's ARRL International DX Contest, February 19-20 (CW) and March 5-6 (phone).



Tim, K3LR, pounds brass to the tune of a new record in the multioperator, single-transmitter class on CW. He was helped by Tim, W3YQ, and Scott, WR3G

TOP TEN

W/VE Low-Power

CW

W1PH	1,542,468	AA2U	728,442
W2TZ	1,115,868	K3NCO	256,608
K7SV	1,071,216	N7IR	237,876
K0EJ	929,070	KK2E	228,900
KC1SJ	921,591	KA1CZF	200,301
N8AA	919,320	K9AY	186,984
K5RX	908,193	WA1N	186,240
WD4AHZ	906,240	W1QK	178,596
K2POF	869,400	N1AFC	177,459
N4YDU	738,924	KF5QR	143,715

Phone

N8II	1,375,998	AA2U	702,684
VE3RM	1,156,680	KQ3V	431,871
W2TZ	1,055,610	KV8S	195,564
N6WLX/8	819,798	KB7VD	168,480
KS9B (KB9BIB,op)	795,108	KA1CZF	147,258
KE2ZU	703,152	N7IR	110,448
WA2EOV	674,541	W4DEC	74,625
VY2SS	645,888	W6CN	74,250
WS1A	644,736	W8QZA	73,983
W7YAQ	586,188	WA4FHQ	44,520

DX Low-Power

CW

EA8/DL2HBX	2,189,796	V73C	1,249,416
TEST (TI4SU,op)	1,785,240	HB9ADD	187,116
XE1/AA6RX	1,251,852	IK2LEY	126,984
NP2I	1,190,730	DL3ZBJ	103,782
TM5GG (F6FGZ,op)	1,188,414	OZ3PE	86,064
VK2APK	1,074,708	EA7AAW	67,392
HP1AC	725,928	PA0ADT	63,360
DL1IAO	649,077	F2HE	52,341
5Z4TT	588,225	PA3GCQ	43,848
JR7OMD/2	577,404	SM5CLE	41,958

Phone

W8HNII/KP4	1,174,800	V7A (V73C,op)	2,016,333
LU2NI	1,156,194	K7SS/KH6	1,885,356
5Z4BI	1,095,807	4M1G	1,223,388
J73WA	980,562	IK1GKE	65,682
VP2E/WB9HRO	979,017	OK1DKS	36,984
TM5GG (F6FGZ,op)	873,828	G5LP	25,272
ZB2JL	758,250	SP7LZD	21,528
TU2CI	721,666	OH5NHI	16,536
4X6FR	651,567	JA2JSF	16,146
4M3B	566,784	OK2BAT	12,051

The Quest for 10,000 QSOs

After coming so close in 1992 to achieving my lifetime goal of 10,000 contacts in a contest, I had to try again. I'd hoped to reach the goal in the 1992 contest from the Costa Rica superstation of Carlos Fonseca, TI2CF. Unfortunately, conditions were so good between W/VE and Europe that my rate was fairly slow in the mornings and I missed the goal by 224 QSOs.

In 1993, I decided to try it from HC8A on Isla San Cristóbal, in the Galápagos Islands. I hoped for normal rather than excellent conditions between W/VE and Europe. My strategy was straightforward: Stay on the highest band open to W/VE with a good rate. Daytime and early evening rates had to be over 200 per hour or I had to consider changing bands. It was difficult choosing times for 160 meters—normally the slowest band, but the multipliers are important.

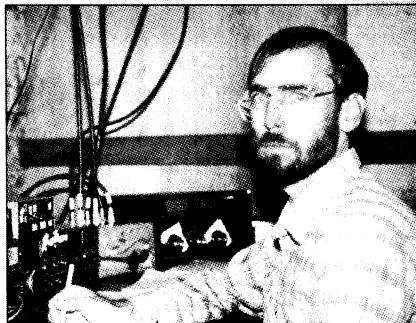
The contest started with 336 QSOs in the first hour, and my rate stayed near 260 per hour as I moved from 10 through 15, then to 20 meters. My first hour on 40 was 270 QSOs! I hit 160 meters at 0800Z the first night and went there a few times each night. I probably lost multipliers on 160 by going so late, but I had an excellent rate on the higher bands.

My rate was slower in the middle of the night, but climbed to 285 at 1300Z and stayed above 240 through 0000Z. My mid-contest QSO total was 6010—I had a good chance. The second night was slower on the low bands, as usual. Everything depended on the 10-meter opening on Sunday. Would Europe be the main attraction for W/VE stations or would the rate be good for me, too?

Fortunately (for me), 10-meter conditions weren't good from W/VE to Europe on Sunday, and my rate stayed at more than 200 for most of the last 11 hours. I reached 10,000 contacts with two hours to go and finished with 10,470 QSOs!

It was a real thrill to know I had beaten my previous best by almost 700 contacts. What a contest!—Rich Smith, N6KT, Fresno, California

Read more about Rich's Galápagos story in the September/October 1993 issue of the *National Contest Journal*.—Ed

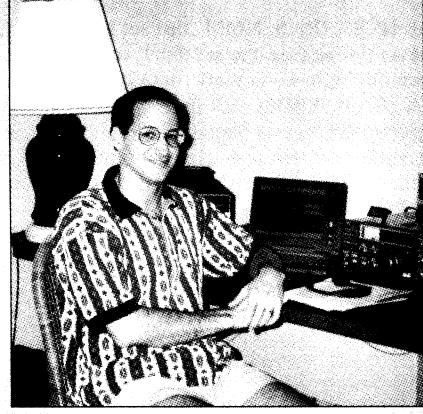


Little Pistol versus Big Gun

When Jeff Steinman, KR0Y, booked passage to the Caribbean island of Providenciales for the CW portion of the ARRL DX Contest, he had no idea he'd be facing stiff competition from one of the largest DX stations in North America. With the arrival of February, Jeff was making final preparations for his small, expedition-style operation from the Erebus Hotel, when word arrived that long-time friend and rival Trey Garlough, WN4KKN, had made last-minute arrangements to operate the contest from the giant station of well-known DXer Carlos Fonseca, TI2CF, of Costa Rica.

As the contest started Friday night, Jeff, facing a big disadvantage in antenna hardware, knew he had his work cut out for him. Jeff was no stranger to the role of underdog, winning the USA championship during the 1992 event from his home state of Texas, upsetting the usual lineup of East Coast favorites. This experience gave him confidence and a clear understanding that anything was possible.

The single-operator world record, set in 1988 by P40GD (John, W2GD, op), was 6001 QSOs, so when Jeff operated 24 hours without a break and reached the midway point with 3790 contacts, he knew things were going well. Jeff caught only two hours' rest all weekend, demonstrating that what's inside the shack (operator skill and perseverance) is equally important to what's outdoors (big antennas). While the op at the big gun station was napping, the "little pistol" station walked away with the championship and a new world record.



Jeff Steinman, KR0Y/VP5F

Station:	VP5F (Jeff, KR0Y, op)	TI1C (Trey, WN4KKN, op)
Transceiver:	Kenwood TS-930S	Kenwood TS-930S
Power amplifier:	Clipperton-L	Kenwood TL-922A
Antennas:	Cushcraft A3 @ 20' (10-40) Butternut HF2V (80-160)	KLM Yagis @ 170' (10-40) Dipole @ 170' (80) 1/2λ sloper (160)
QSOs:	6288	6123
Hours on the air:	46	43½
Average QSOs per hour:	136.7	140.8

SOAPBOX

W/VE CW

I was pleased to surpass my previous contest record, and was able to work the last zone I needed for my WAZ (WA2ASM). This is my first contest activity in 13 years since relocating from Montana. Working Europeans on 80 meters was an experience, especially when all you have is a short all-band vertical antenna and 100 watts! (K7QA/3). This was my first effort working 80 meters on CW in a DX contest. With only a 39-foot ground-mounted vertical antenna, I worked everything I could hear. Conditions were good and the noise level was low. It was great (KD4AS). Aggravation is when you have to shut down in the middle of a good run to Europe (W4HBK). This was my first contest in years and I had a great time! I ran the rig barefoot and enjoyed myself (W7GB). With five inches of snow accumulation on Saturday night, the bands were noisy. The 10-meter antenna got stuck on JA-land Saturday, causing me to miss many QSOs and multipliers on 10 meters, but I had fun anyway (KB9BIB). I'm not "computer literate" yet, but I must admit I'm thinking about it (VE6BF). Conditions weren't great, but there were openings on all the bands over the weekend. When you're running QRP and the only thing you can hear on 10 meters is four African stations everyone else is trying to work, you don't make much headway (K3NCO). Band conditions weren't so hot here, and 40-meter signals were weak with lots of QRM, but I still had lots of fun (VE3CWE). I found out that operating with only a vertical antenna required me to search and pounce constantly! (WC5D). It was an excellent contest. I had fun turning the power down to five watts on several contacts to give QRP a try (WD6DXH). Wow, it's amazing what happens when Murphy shows up to operate. I opened my eyes at 9 AM EST Saturday, and I knew I blew it! (AA2DU). QRP operating on 20 meters is definitely an exercise in self-abuse! (AA6EQ). Perhaps the foot of snow we got was the reason for the QRN. Conditions were reasonably good, but not up to those of past years! (W9HE). A major snowstorm cost me during the last six hours (VE3EJ). I found operating 40 meters with low power on a vertical antenna brutal, but fun! (AA7FK). By far, the biggest thrill for my modest station was when I heard BV7BB calling CQ on 21.140! (N5FG). Did I miss the 10-meter opening to JA from the Midwest or was it just the low solar flux? (N8AGU). It was a great time as usual, with good conditions, but not as good as last years. Ten meters seems to be slipping rapidly (WR2G). I had a great time! At my age, this would have been impossible without the computer and CT (K6SG). We found band conditions poor in this area, but we had fun (KF0GV). I found propagation was better than I expected, but the weather was a different matter,

Affiliated Club Program

Unlimited Category

Club	Score	Entries	CW Winner	Phone Winner
Frankford Radio Club	174,172,361	163	N2LT	N2LT
Yankee Clipper Contest Club	151,343,799	121	K1ZM	K1DG
Potomac Valley Radio Club	52,889,439	62	K3ZO	K3ZO
Medium Category				
Mad River Radio Club	27,155,868	29	KW8N (WD8IXE,op)	K8GL
North Coast Contesters	23,014,356	16	VE3EJ	K3MD
Society of Midwest Contesters	20,270,223	27	WA9TPQ	W9OP
Mile-Hi DX Assn	16,115,541	17	N2IC/0	K0KR
Southeastern DX Club	12,236,937	20	WX4G	KB0G
Northern California DX Club	12,191,199	46	W6BIP	N3AHA
Southern California Contest Club	12,136,410	22	W6EEN (KA6SAR,op)	K6NA
Texas DX Society	8,332,530	5	K5GN	K5DX
Rochester (NY) DX Assn	7,525,128	21	W2TZ	WA2LCC
Southern California DX Club	7,435,362	35	N6AA	KJ6HO
Kentucky Contest Group	6,975,969	18	N4AR	K4LTA
Salt City DX Assn	6,640,833	22	K2KIR	NA2A
Western Washington DX Club	6,041,454	15	NN7L	N7TT
North Texas Contest Club	5,592,018	19	K5RX	K5MR
Left Coast Contest Club	3,501,009	14	WA0RHY	NX7K
Northern California Contest Club	3,080,043	4	W6XX	WC6H (NU6S,op)
Schenectady ARA	2,877,417	11	K2SIG	WA2EOV
Boiled Owls of New York	2,499,153	5	NA2M	—
South Jersey Radio Assn	2,322,567	17	WA2VYA	W2PAU
Long Island DX Assn	2,112,474	7	K2MFY	NN2G
Dauberville DX Assn	1,743,576	5	NW3H	KA3DSW
Kansas City DX Club	1,300,410	8	N0FMR	KM0L
Murphy's Marauders	1,154,523	7	K1IN	K1DW
Ohio Valley ARA	936,171	3	W8RSW	—
Eastern Iowa DX Assn	865,053	8	KE0Y	NK0N
Grand Mesa Contesters	838,941	5	N0ZA	K0GAS
Lone Star DX Club	797,433	5	KF5QR	KF5QR
Mississippi Valley DX/Contest Club	588,075	6	K0IFL	AA0A
Great Falls Area ARC	489,633	4	AA7BG	AA7PD
Western Illinois ARC	447,939	6	KI0W	N9JF
West Park Radiops	424,956	13	W8IDM	W8BE
OH-KY-IN ARA	349,221	19	K8SCH	N8FU
Redwood Empire DX Assn	317,181	7	K6ZUR	W6PM
Western New York DX Assn	288,408	5	WB2JFP	W2FXA
Hamfesters Radio Club	225,540	11	W9CA	N9AB
Indian River ARC	160,593	16	W4YN	AC4IV
North Jersey DX Assn	66,621	3	WA2UDT	WA2UDT
Downey ARC	46,794	3	W6TOI (NA2D,op)	W6TOI (NA2D,op)
North Hills ARC	40,173	3	WA6CMM	WA6NLJ
Eastern New Mexico ARC	33,432	3	AA5UR	KA5BAT

Local Category

River City Contesters	6,970,209	10	KV6H	K6SG
Radio Central ARC	4,529,733	8	KK2E	KE2NL
Carolina DX Assn	2,940,528	6	K4YLL	K4YLL
Blackhawk DX and Contest Club	2,610,597	10	KB9BIB	KSB9 (KB9BIB,op)
Central Florida DX Assn	2,185,572	3	N6AR	N6AR
North Shenandoah DX Assn	1,257,375	6	N4MM	N4PMQ
Platinum Coast ARS	807,447	4	NK9C	K9ES
Lincoln ARC	759,657	3	—	WA4FHQ
Denver Radio Club	579,351	6	AC0S	K9BQL
Sterling Park ARC	343,270	4	W4LMJ	W4LMJ
Valley Radio Club	200,301	3	—	WJ7R
Metro DX Club	177,948	7	K9MDO	K9MDO
Naked Chicken Contest Club	135,063	4	NF1J	—
Northern Ohio DX Assn	117,900	3	K8BL	W8JGU
Gabilan ARC	72,420	4	—	KB6GV

Overall Single-Operator Division

Leaders

CW

Atlantic	K3ZO	2,474,604
Central	W9RE	2,006,118
Dakota	WB0O	393,054
Delta	W4XJ	1,555,200
Great Lakes	KW8N (WD8IXE,op)	2,315,196
Hudson	K1ZM	3,324,672
Midwest	NS0B	316,710
New England	KM1H (KQ2M,op)	3,281,718
Northwestern	NN7L	1,272,141
Pacific	W6JTI	480,528
Roanoke	K4PQL	2,112,012
Rocky Mountain	N2IC/0	1,867,140
Southeastern	N6AR	1,157,580
Southwestern	W6EEN (KA6SAR,op)	1,129,257
West Gulf	K5GN	2,339,064
Canada	VE3EJ	2,351,700

Phone

Atlantic	W3BGN	3,097,584
Central	W9RE	3,414,534
Dakota	WB0O	668,736
Delta	K4LTA	1,051,344
Great Lakes	K8GL	1,587,618
Hudson	K1ZM	4,034,052
Midwest	K4VX/0 (AA0CR,op)	1,524,432
New England	K1DG	4,082,463
Northwestern	N7TT	1,510,692
Pacific	WC6H (NU6S,op)	1,918,590
Roanoke	N8II	1,375,998
Rocky Mountain	K0KR	1,504,740
Southeastern	WZ4F	1,951,266
Southwestern	K6NA	556,380
West Gulf	N5RZ	2,565,888
Canada	VE7SZ (VE7NTT,op)	2,277,444

Low-Power Single-Operator Division

Leaders

CW

Atlantic	W2TZ	1,115,868
Central	KB9BIB	405,132
Dakota	KE0UI	207,624
Delta	K5KLA	440,538
Great Lakes	N8AA	919,320
Hudson	K2POF	869,400
Midwest	AJ0I	134,415
New England	W1PH	1,542,468
Northwestern	W7YAQ	673,728
Pacific	W6JTI	480,528
Roanoke	K7SV	1,071,216
Rocky Mountain	KE7NS	190,323
Southeastern	WD4AHZ	906,240
Southwestern	WA6FGV	76,725
West Gulf	K5RX	908,193
Canada	VE1AZN	466,488

Phone

Atlantic	W2TZ	1,055,610
Central	KB9BIB (KB9BIB,op)	795,108
Dakota	AC0W	482,922
Delta	KE2JO	564,135
Great Lakes	N6WLX/8	819,798
Hudson	KE2ZU	703,152
Midwest	WB0VJT	177,600
New England	WS1A	644,736
Northwestern	W7YAQ	586,188
Pacific	N6NF	364,506
Roanoke	N8II	1,375,998
Rocky Mountain	K9BQL	274,944
Southeastern	K0RNZ	364,425
Southwestern	KJ6HO	360,000
West Gulf	KF5QR	456,456
Canada	VE3RM	1,156,680

QRP Single-Operator Division Leaders

CW

Atlantic	K3NCO	256,608
Central	WB9HRO	7,104
Dakota	WA0RPI	75,900
Delta	N1CWR	66,381
Great Lakes	—	—
Hudson	AA2U	728,442
Midwest	—	—
New England	KA1CZF	200,301
Northwestern	N7DM	10,320
Pacific	W6IO	38,994
Roanoke	W4IF	61,440
Rocky Mountain	K9AY	186,984
Southeastern	KA4YAE	76,125
Southwestern	N7IR	237,876
West Gulf	KF5QR	143,715
Canada	VE2FFE	26,199

Phone

Atlantic	KQ3V	431,871
Central	—	—
Dakota	—	—
Delta	—	—
Great Lakes	WB8ORV	35,964
Hudson	AA2U	702,684
Midwest	KG0BZ	6,000
New England	KA1CZF	147,258
Northwestern	KB7VD	168,480
Pacific	—	—
Roanoke	KV8S	195,564
Rocky Mountain	—	—
Southeastern	W4DEC	74,625
Southwestern	N7IR	110,448
West Gulf	—	—
Canada	VE6SH	17,568



Juan, TG9AJR, listens to the pileups, running single-operator-assisted on phone.



The crew at V26AS operated multi-single and took the third-place position in modes. (l-r), YU1NR, YU1NR's XYL, YT1AD, V21AS and YU1RL.

with high winds, rain, hail and a tornado in the area during the last two hours of the contest. All in all, it was a great contest (W4XJ). This was the weekend of the year! The great conditions, a brand-new station and a new home-brew logging program were the contributing factors. I can't wait until next year (VE2JBF). This was my first stab at QRP, and I had a ball (WA1N). Even though overall conditions were down from last year, they were terrific on 160 meters (K5GN). I fell asleep, causing me to miss a few good multipliers! (W2VO). I didn't have much time to operate, but it was another good contest (W5FO). I finally did it! This was my first contest and it was fun. I can't wait until next year (KA6OCO). This is my first effort operating 40 meters single band, and it was a lot rougher than doing 10 meters only, as in the past. Conditions could have been better on the short path to Europe. Long-path propagation was good, but it didn't last long (K7QQ). On Sunday, I noticed that my attenuator had been on all weekend. Wait until next year! (AB4RX). It looks like old Sol is thinking about shutting the door on 10 meters (N6AR). As always, I enjoy this contest (N8RR). I set out to beat last year's score and I did! I didn't work any new countries in this contest, but I enjoyed every minute (KE8RO). I enjoyed the contest. Conditions were fair, but I worked five new ones, so it was worth the effort (WA0RPI). As always, I enjoyed the contest very much. My objective was to beat my previous score (AB4SW). This was my first try at this contest and I really enjoyed it (VE1ST). We encountered a tornado that caused a power failure. I've operated this contest several times from the Caribbean where it's the norm for power to go off, and now I know it can happen here, where we take it for granted (K4LTA). Because I had no outside antennas, I resorted to my old 40-meter mobile antenna. After installing a corona suppressor on the top whip, this setup, when fed with 1500 watts through nearly 200 feet of $\frac{1}{2}$ -inch Heliax, worked fairly well! (K00U). I've come to the conclusion that if I do this enough, I'll eventually improve my code speed! (AA8U). We found the lower bands to be good, even though conditions here were a bit down (WK6V). This was my first time working all bands and it was great! (K1VWL).

Top W/VE Single-Band Scores—CW

160		20	
W1FJH	(AD8V,op)	KT3Y	495,405
	13,677	VE1ST	226,590
K4TEA	13,248	KCØD	205,620
WB9Z	7,371	K9CAN	188,928
W2VO	6,888	W8TWA	135,954
N4UU	4,896	NØTT	123,120
N4UH	3,741	KA7T	114,099
WØZV	3,591	W5FO	109,824
WD91NF	3,444	W9OF	100,725
K5WXZ	1,482	K6XO/7	83,424
K9UWA	1,071		
80		15	
W1FV	172,326	KØLUZ/4	470,529
K1IU	131,784	K2SS/1	421,176
KBØG	98,592	WØUN (WØUA,op)	392,931
WE3C	95,064	N4ZZ	294,168
AA4S	69,966	W9LT	282,624
K1WGM	46,368	K6LL/7	222,768
K3JG/J2	32,724	N4IR	216,294
WB2DHY	32,112	KA6A	190,164
WB8GU	32,010	AA5ZQ	172,938
W6RJ	31,104	K9LJN	144,738
40		10	
W6XX	307,146	K5MR	123,774
W5WMU	258,336	N3KK	120,384
K7QQ	205,884	WB4TDH	78,480
W3GH	193,617	NN2G	75,522
W4BQF	131,706	WA1FCN	57,228
NY1E	85,272	AA8U	54,000
WT5U	82,140	NI4Y	46,104
K4AMC	60,192	N5NMX	41,175
NIØG	57,072	W2HG	35,280
K5KT/6	46,716	WO2N	34,587

Top DX Single-Band Scores—CW

160		20	
NO9M/KP4	42,336	OH8LQ	260,100
CT1AOZ	33,516	7L1GVE	241,338
9A2TW	18,900	9A7A (9A3TR,op)	239,400
I3VHO	8,136	FF6KBF (F6HSV,op)	226,026
K9V/KH6	8,064	S59WA	214,524
YU7AU	8,004	S51AW	212,628
SM5EDX	6,279	S57DX	210,501
OK2PWJ	1,920	RZ9UA	190,008
OM3TKW	1,302	OH2BH (OH6E,op)	174,348
UB5NBJ	1,287	UA1ZAA	171,360
80		15	
YV1OB	114,348	VP5U (N4MO,op)	320,208
KP4/K9IMM	87,300	HC1MD/4 (NE8Z,op)	222,024
OK1ALW	86,856	9A1CCY	209,988
DK8BZ	78,192	OH1AA (OH1HD,op)	207,252
F1NBX	70,752	OH6NIO	191,520
IO4IKW	68,634	LZ1KOZ (LZ1MC,op)	187,572
FI1LGE	64,758	S57EK	181,335
OM3CBU	63,345	KH6HNT	180,612
OM3PA	58,953	S57BU	153,120
ON7TK	58,842	OH8MCT	144,480
40		10	
T32AF (KH6UR,op)	227,244	ZD8LII (G0LII,op)	378,000
IO4IND	220,416	PJ2/PA0VDV	195,888
LZ5W (LZ1OP,op)	166,866	EA9UK	171,879
OT3T (ON4UN,op)	160,050	VK4XA	75,852
YT7A (YU7GMN,op)	137,445	CT3FT	71,040
9A3IQ	132,216	LZ3ZZ	70,800
XE1/JA1QXY	123,444	LU1FNH	64,260
I5NSR	119,625	JA1KFX	25,878
JH5FXP	83,148	JH3LCU/1	23,154
9A2NW	81,408	PY2YN	21,672

Top W/VE Single-Band Scores—Phone

160		20	
WB9Z	5,346	K5MR	359,910
KF4HK	2,856	N6JKQ	181,830
W2VO	2,730	K2OMF	138,285
W1CKA	2,652	K9CAN	118,347
N4UU	2,652	K6XO/7	88,020
W2FCR	2,475	W0MHK	75,480
NO0Y	1,242	K5OC	70,656
K5WXZ	960	K7ABV	69,870
WT3W	867	W1LQQ	64,500
K4TEA	864	WA3EEE	55,161
80		15	
WE3C	73,125	W0UN (W0UA,op)	
W6RJ	62,016		879,396
KM0J	27,450	W6QHS	656,820
NR2H	18,972	W5WMU (KZ5D,op)	
VE3POS	16,362		645,795
N5NMX	14,100	KS1L	602,937
N3AHF	13,050	N3KK	584,568
N8QAZ	10,824	NX7K	500,640
NV3V	10,800	W2HPF	409,125
WB1CBY	9,828	K3MD	406,536
		N4ZZ	388,188
40		K9ES	374,220
K1UO	147,882	10	
W3GH	117,030	K4XS	620,784
W5KFT	114,750	KO4QW (WC4E,op)	
KD9ST	49,494		437,004
WD4KXB	43,428	KY5N	282,048
W8JGU	42,864	K6SVL	242,985
NI5M	41,829	W7ZR	212,184
K6GX (K5RR,op)	38,178	KZ2I	202,806
WF2W	33,735	N3HBX	193,026
W9CH	29,640	NY1E	190,800
		K9BG	158,808
		K7RI	142,800

Top DX Single-Band Scores—Phone

160		20	
CU2CE	39,516	IR4T (I4UFH,op)	421,499
YV1DRK	33,396	GW4BLE	336,831
AL7MX	8,928	9A7A	331,740
9A2TW	1,596	S59CM	288,510
80		RZ9UA	276,834
4M3X	170,316	S51DX	251,604
CQ3B (CT3EE,op)	67,680	7L1GVE	249,039
YV5NCK	61,692	OH0MAM	244,083
ON7TK	60,888	YV5NCJ	233,415
14AVG	48,960	KH6FKG	222,471
OK1ALW	37,674	15	
DL5XU	35,187	HC1OT	443,700
4N9A	32,832	DF9ZP	320,370
DL3LAB	28,188	9A1CCY	317,184
EA7LM	26,208	LZ5W (LZ3ZZ,op)	316,620
40		OH6RM	314,175
ZF2ND	365,859	S57EK	294,351
OT3T (ON4WW,op)	240,096	YT7A (YU7GMN,op)	287,280
CU2AK	141,912	OH1EH/OH0	271,788
VK3EW	123,090	OH1AA (OH1JD,op)	262,137
XE1KK	93,969	JH7AFR	255,090
KH6NO	92,697	10	
EA1AK/EA8	87,840	LU6ETB	523,212
JA2BAY	84,672	ZD8LII (G0LII,op)	516,309
F6AOI	69,255	WP4WD	509,580
I4EWH	65,847	VP2VF	464,094
PJ9JT (W1BIH,op)		LU2QC	270,351
		CE3NR	263,340
		CP6HE	330,948
		IT9JWV	274,560
		CE6JOE	274,176
		LU2QC	270,351
		CE3NR	263,340

W/VE Phone

Exactly when is Cycle 22 supposed to die? As ever, it was a fun contest (N8AGU). It was a great contest, with phenomenal conditions on 20 meters Sunday morning during the European sunrise, but what happened to 10? (KE2AY). I can only hope that this is the last time I work this contest with only vertical antennas! (WA7BNM). I got my wife to make a dozen or so QSOs, so this was our first multiop effort! (AA7BG). I lost my power amplifier, but conditions were great! (N6IC). This was my first attempt at operating all band. I learned a lot, but I also know that I have a lot to learn (AA0CCR). Propagation was good, with lots of multipliers. It was a wonderful contest (W6RCL). This is my best entry in this contest and I had a great time. Conditions weren't the greatest for Cycle 22, but I managed to add two new countries to

my DXCC totals (N2LDU). I found the European opening great on Saturday, but not so on Sunday (K9BG). Conditions were great on all bands and I was able to work two new countries on 80 meters (K6SG). I was trying to work only "new" countries, and it was fun and an interesting challenge for a modest setup (W1IHN). I have to admit that working five new ones on 160 meters was worth staying up two nights! (KF4HK). This was just a partial effort because my beam got stuck, but at least it was on Europe! (KZ3H). There were nice JA openings on Sunday (KZ2I). I found conditions not as good as last year, but I did better my score. It seemed that there were more multipliers to be had (AA2IZ). As much as I enjoyed the weekend, I was disappointed because propagation to Europe on Sunday was poor (KD4IBI). As a housewife and mother, I enjoyed having the

Top W/VE Multioperator Scores

CW

Single Transmitter

Call Sign	Score	160	80	40	20	15	10
K3LR	3,906,720	53/39	124/58	496/94	875/99	714/104	451/86
W3BGN	3,650,787	74/47	167/66	466/95	822/104	647/47	253/91
N4RJ	3,389,463	52/37	158/60	558/97	661/95	663/97	317/83
K1VR	2,733,234	31/29	186/52	523/86	555/86	727/86	184/73
K2WI	2,727,000	79/44	355/71	333/81	550/94	433/80	270/80

Two Transmitter

Call Sign	Score	160	80	40	20	15	10
K1AR	7,882,974	67/42	388/78	1024/117	1405/127	1213/113	457/97
N2NT	6,968,592	75/50	477/72	876/109	1040/113	1109/120	527/101
N3RS	5,938,665	53/41	188/60	784/105	1225/111	1086/110	449/96
K2TR	5,787,096	70/45	245/63	730/105	1069/111	1166/113	346/92
K1DG	5,597,550	72/46	204/64	700/103	1116/111	1081/107	381/92

Unlimited

Call Sign	Score	160	80	40	20	15	10
W3LPL	8,792,388	93/51	522/81	999/113	1566/120	1197/121	557/108
K1RX	7,661,262	53/38	702/78	906/111	1322/112	1241/114	394/96
K4VX	5,710,944	42/28	168/62	689/20	1293/112	1266/103	379/84
K8CQ	5,037,210	28/20	175/57	618/103	1305/111	998/107	338/85
AA6TT	5,018,436	34/22	259/64	862/99	958/111	1024/99	305/91

Phone

Single Transmitter

Call Sign	Score	160	80	40	20	15	10
K8AZ	4,130,820	28/24	95/57	132/76	761/126	1102/131	480/116
AD1C	3,857,040	25/23	174/63	224/78	765/125	653/116	594/123
KS9K	3,779,787	24/20	94/54	147/74	539/123	1206/130	427/116
W3XU	3,599,274	18/18	53/50	113/73	846/125	846/125	522/112
KW8N	3,412,530	30/26	123/59	123/68	637/111	769/115	616/116

Two Transmitter

Call Sign	Score	160	80	40	20	15	10
K1AR	9,851,358	46/35	245/71	400/91	1842/158	1524/144	1090/139
N3RS	7,427,970	37/31	212/70	220/90	1186/144	1587/145	784/135
K2TR	6,891,846	36/33	201/70	194/78	1214/147	1187/147	1599/142
K0RF	4,787,496	29/25	96/53	157/73	833/128	1209/126	656/120
K5NA	4,693,500	10/11	107/54	554/66	406/113	1721/124	583/104

Unlimited

Call Sign	Score	160	80	40	20	15	10
N2RM	13,024,950	74/49	388/88	509/104	1766/164	2054/156	1324/149
W3LPL	11,124,594	64/43	366/87	427/101	1842/166	1677/153	1006/139
K1RX	6,918,531	33/27	319/78	153/72	1485/147	1011/135	888/132
K5XI	5,746,284	39/25	115/57	263/73	863/134	1274/125	980/128
W4MYA	5,435,664	38/33	165/68	209/80	1154/134	1065/123	596/124

DX Continental Leaders

CW

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	EA8EA (OH2MM,op)	4X/S59PR	CR7M (CT1BOH,op)	VPSF (KR0Y,op)	KH6NO	P40M (K5GO,op)
160	—	JA1BK	CT1AOZ	NO9M/KP4	K9VV/KH6	—
80	—	JH1AEP	OK1ALW	KP4/K9IMM	YV1OB	—
40	EA9TY	JH5FXP	IO4ND	XE1/JA1QXY	T32AF (KH6UR,op)	PX2A (PY2KP,op)
20	—	7L1GVE	OH8LQ	K7JA/KP4	VK4TT	HC1MD/4 (NE8Z,op)
15	—	JH3CXL	9A1CCY	VP5U (N4MO,op)	KH6HNT	PJ2/PA0VDV
10	ZD8LII (GØLII,op)	JA1KFX	CT3FT	—	VK4XA	—
Assisted	—	JA7SUR	ON4WW	—	—	—

Multioperator

Single Transmitter	EA4KR/EA8	JJ3YBB	TM9C	V26AS	NH6T	P49V
Two Transmitter	5H3XX	JA1YFG	HG5A	—	ZL3GQ	—
Unlimited	—	JA1YDU	9A1A	—	—	—

Phone

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	EA4KR/EA8	JH7DNO	GDSLSY (K3RV,op)	HH2PK	KH6/WR6R	HC8A (N6KT,op)
160	—	—	CU2CE	AL7MX	—	YV1DRK
80	CQ3B (CT3EE,op)	RA0FA	ON7TK	—	VK3DZM	4M3X
40	EA1KA/EA8	JA2BAY	OT3T (ON4WW,op)	ZF2ND	VK3EW	PT7WA
20	5H3MT	RZ9UA	IR4T (I4UFH,op)	—	KH6FKG	YV5NCJ
15	5Z4RS (5Z4BJ,op)	JH7AFR	DF9ZP	—	KH6GMP	HC1OT
10	ZD8LII (GØLII,op)	JG1EGG	IT9JWV	WP4WD	AH6IM	LU6ETB
Assisted	—	UA9LP	DJ1XT	NP2I	—	PY0FM (PY5CC,op)

Single Transmitter	EA9IE	JJ3YBB	TM5G	PJ0B	ZL2NX	LU1VV
Two Transmitter	—	JA7YAA	CT5P	6D2X	—	—
Unlimited	—	JA1YXP	I3MAU	—	—	PP4

weekend to myself to work this contest. It was great fun, but I need to get a computer (KF9IF). This is the first time we ran multi-multi! We didn't have everything operational, but we had a lot of fun (K5XI). Good conditions equal good DX! This is my first DX contest and I think I did fairly well (N1MJM). I had laryngitis, so all I could do was hunt and pounce. Thank goodness for voice keyers! (VE6JAV). It was a great contest and it was a nice experience being called by HS0AC. (KS1L). This being my first contest, it was a great experience for me. Everything went well. The indoor dipole didn't fall off the ceiling this week, as it usually does, and I only lost the band because of the weather and snowstorm that

wiped out my reception (VO1LT). The conditions were good the first day, but on the second day they became terrible. I heard stations on the East Coast calling stations I couldn't hear! (KY5N). Conditions were better than I had expected. This is the first time I can recall working Thailand in any contest, that being my poorest direction (W7FP). Where were all the ZS stations? I was only able to get one, but was fortunate to get two Ivory Coast stations (WA5CQP). I had a great time, but a dipole won't radiate when it's fallen into the snow! (WA0QOA). After several years of operating on low power, I decided to give QRP a try. I was amazed at what five watts will do! (KQ3V).

Top DX Multioperator Scores

CW

Single Transmitter

Call Sign	Score	160	80	40	20	15	10
P49V	5,460,174	251/42	564/55	868/56	1276/57	1499/58	1125/58
NH6T	4,633,263	238/47	639/53	926/54	715/57	967/58	1238/58
V26AS	4,572,720	19/16	212/48	945/57	1137/57	1208/57	1699/57
EA4KR/EA8	3,270,939	91/27	406/47	561/52	1051/56	878/55	812/50
XE2EBE	2,902,437	277/47	618/55	558/54	365/52	629/50	684/51

Two Transmitter

Call Sign	Score	160	80	40	20	15	10
ZL3GQ	3,524,148	73/25	287/49	810/55	984/57	736/54	1052/58
HG5A	3,453,240	108/26	465/42	837/53	918/58	1083/54	700/47
UW2F	2,768,451	105/18	388/38	605/50	1052/56	777/53	634/44
RU1A	2,473,455	35/20	174/36	457/55	883/57	1141/57	371/44
DL0WW	2,472,690	88/22	390/37	464/42	954/56	915/54	434/43

Unlimited

Call Sign	Score	160	80	40	20	15	10
9A1A	4,057,371	185/29	502/39	1203/56	1052/57	1073/57	764/45
4N1Z	2,284,500	60/21	244/40	648/53	1015/53	760/52	479/41
JA1YDU	1,552,776	11/3	158/31	447/45	664/56	616/52	335/45
JA1YEW	99,528	0/0	0/0	21/8	222/43	68/16	66/21
OH3AT	32,025	0/0	0/0	6/6	85/26	84/24	0/0

Phone

Call Sign	Score	160	80	40	20	15	10
PJ0B	9,746,						

DX Plaque Winners

CW

Single Operator

Position	Winner	Donor
World	VP5F (KR0Y,op)	North Jersey DX Assn
Africa	EA8EA (OH2MM,op)	Byron Peebles Jr, N3ZO
Asia	4X/S59PR	Alamo DX Amigos
Europe	CR7M (CT1BOH,op)	Dr G. Griffin, W8MEP, "Bones"
North America	T1C (WN4KKN,op)	Potomac Valley RC
Oceania	KH6NO	Chuck Cullian, K0RF and John Brosnan, W0UN
South America	P40M (K5GO,op)	Southern California DX Club
1.8 MHz	NO9M/KP4	Fred Race, AL7JO, in memory of DL1FF
3.5 MHz	YV1OB	Mad River Radio Club
7 MHz	T32AF (KH6UR,op)	W3YX Memorial
14 MHz	OH8LQ	Bencher Inc
21 MHz	VP5U (N4MO,op)	Southern New England DX Assn
28 MHz	ZD8LII (G0LII,op)	ARRL
QRP	V73C	Dr G. Griffin, W8MEP, "Bones"
Assisted	ON4WW	Willamette Valley DX Club

Multioperator, Single Transmitter

Position	Winner	Donor
World	P49V	John Brosnan, W0UN
Africa	EA4KR/EA8	Kenwood Employees ARC, WD6DJY
Asia	JJ3YBB	Kenwood Employees ARC, WD6DJY
Europe	TM9C	The Radio Place
North America	V26AS	Kenwood Employees ARC, WD6DJY
Oceania	NH6T	Gary Stillwell, K16T, and Glenn Stillwell, WR6O

Multioperator, Two Transmitter

Position	Winner	Donor
World	ZL3GQ	Kenwood Employees ARC, WD6DJY
Africa	5H3XX	Kenwood Employees ARC, WD6DJY
Asia	JA1YFG	Kenwood Employees ARC, WD6DJY
Europe	HG5A	Kenwood Employees ARC, WD6DJY

Multioperator, Unlimited

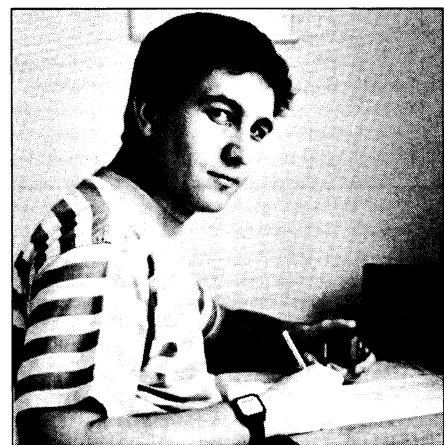
Position	Winner	Donor
World	9A1A	H Stephen Miller, N0SM
Asia	JA1YDU	Kenwood Employees ARC, WD6DJY
Europe	4N1Z	Texas DX Society

(GM3CFS). I found it not easy to work QRP, but it was interesting when I was able to work the US! (YO5CUQ). Propagation on all bands was good the first day. The second day, 10 meters was completely closed to me (EA1EVW). Snowstorms in our region caused a number of cuts in main power, first only for a few seconds, later for several hours, resulting in my meager score (DK9FE). This was my first try at working 40 meters on low power. It was hard work to get QSOS, but interesting to see what's possible with simple equipment (DK8FD). This is a great contest and I had a lot of fun (DL1HCM). Despite poor conditions, I had great fun (F6IE). Conditions were poor, but the contest was nice (JA1JKG). Conditions this year weren't good (DL5JQ). The conditions on 10 meters were poor, but good on 20 meters (UL7LZ). I enjoyed the contest very much, but did anyone tell Canada that this contest was on? There was a distinct lack of Canadians all weekend! (G4BLX). It's incredible what can be done with a simple end-fed wire antenna strung up in the palm trees! I had a lot of fun (NO9M/KP4). Never before have I heard so many American stations on 3.5 MHz! (OZ7NB). It was a

great contest and I'd like to thank all Stateside and VE operators (4M5V). At 56° north latitude, the A Index of 22 on Sunday shut down 10 meters entirely and took the zing out of 15 meters. Then 40 meters appeared to die on Saturday evening and Sunday (W5ASP). This is my first CW contest, and I only have one word for it—wonderful! (15NSR). Conditions were workable on higher bands only after sunset, so I had to decide which band to choose and stay in the pileup until the band closed! (S24TT). I enjoyed the contest, in spite of poor conditions. My thanks to the American hams who called me (JG1TSF).

DX Phone

Not being able to work split really hurt (KP4/N1DX). Conditions were great from here on 10 meters! (7Z2AB). I guess the North Dakota ops were on vacation (CU2AK). Conditions were good, but I had problems with my voice (HB9AAA). My DVP is now my best friend! (PA3AAV). It was a great contest (YO6AWR). This contest was really terrific (PY8AJD). Propagation was poor on 15 meters (JA1BUI). I found conditions very good Saturday, but 10 meters was tough going on Sunday (EA7BA). It was tough going at times from this part of Europe (GW4BLE). I worked some new states for my WAS, and plan to spend more time next year, with better antennas (SV1BDO). It was a beautiful contest! We wish we had better antennas for 20 and 10 meters (LY1ZBZ). It was a lot of fun working the contest from Nigeria again this year. I was able to quadruple my score from last year (N9MDW/5N6). A lot of people thought I was a dupe because JA7DOT was in the contest (JE7DOT). Conditions were so poor the first six hours, that I almost thought something had broken (9H1DE). This was my first contest using online logging and I enjoyed it very much (LA9DFA). It was a great contest. I just wish the propagation had lasted longer (VK3DZM). At times, the pileups were so big, it really impressed me (VK3EW). Conditions weren't so good, especially to the East Coast, but I enjoyed the contest very much (JG1EGG). Sunday was a disaster on 10 meters, with no signals heard from North America (G4MET). Ten was beautiful on Saturday, but went down to zero on Sunday (OM3EA). Conditions were poor on 40 meters (PA3EWP). Conditions might have been even better than last year the first day, but the power went out for two hours during the opening (S57EK). This was my first contest entry



Jaime, HK4OTF, enjoyed operating for the first time with his own call sign and station.

Phone Single Operator

Position	Winner	Donor
World	HC8A (N6KT,op)	North Jersey DX Assn
Africa	EA4KR/EA8	Kenwood Employees ARC, WD6DJY
Asia	JH7DNO	Acadiana DX Assn
Europe	GD0SLY (K3RV,op)	Dr G. Griffin, W8MEP, "Bones"
North America	HH2PK	Chad Harris, VP2ML
Oceania	KH6/WR6R	N7AVK, in honor of W7IYW
South America	4M5V (K3UOC,op)	Kenwood Employees ARC, WD6DJY
1.8 MHz	CU2CE	Fred Race, AL7JO, in memory of ZL2BT
3.5 MHz	3.5 MHz	Kenwood Employees ARC, WD6DJY
7 MHz	ZF2ND	Kenwood Employees ARC, WD6DJY
14 MHz	14 MHz	Central California DX Club
21 MHz	21 MHz	Long Island DX Assn
28 MHz	28 MHz	Long Island Mobile ARC
QRP	HC1OT	Southern Arizona DX Assn
Assisted	IR4T (I4UFH,op)	Willamette Valley DX Club
	LU6ETB	
	V7A (V73C,op)	
	PY0FM (PY5CC,op)	

Multioperator, Single Transmitter

Position	Winner	Donor
World	PJ0B	Carl Cook, AI6V
Asia	JJ3YBB	Kenwood Employees ARC, WD6DJY
Europe	TM5G	Kenwood Employees ARC, WD6DJY
North America	V31DX	Nick Lash, K9KLR
Oceania	ZL2NX	ARRL
South America	LU1VV	Kenwood Employees ARC, WD6DJY

Multioperator, Two Transmitter

Position	Winner	Donor
World	6D2X	Kenwood Employees ARC, WD6DJY
Africa	EA9IE	Stanley Cohen, WD8QQQ
Asia	JA7YAA	Kenwood Employees ARC, WD6DJY
Europe	CT5P	Tom and Joy Middleton, WB4CKY and KB4OMW
North America	VP9DX	FN1J and W0UA

Multioperator, Unlimited

Position	Winner	Donor
World	I3MAU	Wayne Yoshida, KH6WZ
Asia	JA1YXP	Kenwood Employees ARC, WD6DJY
Europe	HG73DX	Doug Robbins, KY2O
South America	PP4Y	Kenwood Employees ARC, WD6DJY

and I'll make sure not to miss it in the future (9H1FP). Conditions were good and it was a nice contest (YO4FYQ). It was a great pleasure to operate from such a rare location (UA2FFD). I had a good sleep on my keyboard Sunday (F6FGZ). Propagation was poor (IK1GKE). It's a pity I just missed 1 million points. I guess more dedication in the wee hours of the morning would have done the trick (VK5GN). Although the conditions were down, the amount of fun I had was up (IK1HSS). I heard a lot of stations that couldn't copy me. The contest was very good (LZ2HM). Conditions were great from the Caribbean! I worked all 48 states in the first two hours (NP2I). There were no conditions on Sunday, but I had fun Saturday (LA5JX). With propagation like this and only 100 watts, it was like pulling teeth from a lion! (GI0KOW). I only missed two multipliers



Andy, VK2GAH, does a little "fine-tuning" on his antenna during the contest.

W/VE Plaque Winners—CW

CW

Single Operator

Position	Winner	Donor
All-Band	K1ZM	Frankford Radio Club
1.8 MHz	W1FJH (AD8V,op)	ARRL
3.5 MHz	W1FV	Dayton ARA
7 MHz	W6XX	Northern Arizona DX Assn
14 MHz	K7Y	Wayne Carroll, W4MPY
21 MHz	K0LUZ	Carl Luetzelschwab, K9LA
28 MHz	K5MR	ARRL
Low Power	W1PH	Dauberville DX Assn
QRP	AA2U	Tod Olson, K0TO
Assisted	K3WW	Billy Lunt, KR1R

Multioperator

Position	Winner	Donor
Single Transmitter	K3LR	Northern Illinois DX Assn
Two Transmitter	K1AR	Kenwood Employees ARC, WD6DJY
Unlimited	W3LPL	Ehrhorn Technological Operations Inc

Phone

Single Operator

Position	Winner	Donor
All Band	K1DG	Frankford Radio Club
1.8 MHz	WB9Z	Butch Greve, W9EWC, Memorial
3.5 MHz	WE3C	ARRL
7 MHz	K1UO	David Thompson, K4JRB
14 MHz	K5MR	Dayton ARA
21 MHz	W0UN (W0UA,op)	Kenwood Employees ARC, WD6DJY
28 MHz	K4XS	Border City Radio Club, VE3WHT
Low Power	N8II	Dauberville DX Assn
QRP	AA2U	Michigan QRP Club
Assisted	N4RJ (KM9P,op)	Bob Reed, WB2DIN

Multioperator

Position	Winner	Donor
Single Transmitter	K8AZ	Kenwood Employees ARC, WD6DJY
Two Transmitter	K1AR	Kenwood Employees ARC, WD6DJY
Unlimited	N2RM	Western New York DX Assn, W2RR

(ON7LX). I never would have believed that I could do so well from southern Africa (A22MN). 160 was good Friday, but was a total flop Saturday (AL7MX). This was the first time I used a computer for logging

(OH0NJ). A contest plus my wife's birthday equals one OM in the doghouse (ZL4NF). It felt great to work the contest from my own station with my own call sign (HK4OTF). Conditions the first day were like the maximum of the sunspot cycle (DL8PC). I

enjoyed it very much and hope to make more points next year (YV7RE). I only made two QSOs on Sunday, but it's always a pleasure to work this contest (IK2SGC).

Scores

The scores are listed by mode—CW and phone. For W/VE and DX scores, single operators are listed first, followed by single operator assisted, multioperator single transmitter, multioperator two transmitter, and multioperator unlimited. W/VE single operator scores are broken down by call sign area, ARRL Section, and Canadian provinces. W/VE single operator assisted and multioperator single transmitter scores are broken down by call area. W/VE multioperator two transmitter and multioperator unlimited scores are listed in descending order by score. DX single operator and multioperator scores are broken down by continent and country. Under each ARRL Section and Canadian province (and country for DX) single operator scores are listed in descending order by category. All band scores are listed first, followed by 160, 80, 40, 20, 15 and 10-meter single band scores. Each line score contains the following information: Call sign, score, QSOs, multipliers, power output (A = 5 W or less; B = 6-150 W; C = more than 150 W). Single band entries are indicated by 160, 80, 40, 20, 15 and 10. For example, in the Connecticut Section, KS1L (K1CC,op) is the all band high power winner; KC1SJ is the all band low power winner; KA1CZF is the all band QRP winner; K1ZZ is the 80 meter winner; KA1WIF is the 40 meter winner; K2SS/1 is the 15 meter winner; and WA1FCN is the 10 meter winner.

CW W/VE Single Operator

1

Connecticut

K51L (K1CC,op)

2,873,016 2547 376 C

KC1SJ 921,591 963 319 B

K1VDF 583,407 913 213 C

K1EBY 489,831 713 229 B

K1IN 406,203 667 203 C

K1VWL 347,130 551 210 C

KA1CZF 200,301 373 179 A

WB1KB 195,360 440 148 B

W1QK 178,596 363 164 A

K1TN 131,634 305 142 B

K1YRP 120,576 314 128 B

AK1N 70,620 226 107 C

W1CNU 59,691 197 101 C

AB1U 41,223 151 91 B

NN1K 33,210 123 90 A

WB1VC 28,884 116 83 C

NF1J 21,840 112 65 A

AA1CB 5,400 45 40 B

N2LTK 1,575 25 21 C

K1ZZ 10,212 92 37 C 80

W0MHK/1 78 34 B 80

KA1WIF 14,916 113 44 B 40

K1EFL 73,248 218 112 C 20

K2SS/1 421,176 1288 109 C 15

WA1FCN 57,228 251 76 B 10

Eastern Massachusetts

W1KM 3,100,629 2527 409 C

K1JKS 1,002,204 1148 291 C

W1MK 848,641 1105 256 C

K6PO 323,028 997 108 C

NI1HQ 183,540 232 190 B

K1CB 176,670 390 151 C

K8JLF 151,380 290 174 B

KQ1F 58,968 189 104 C

KC1WD 3,525 47 25 B 10

W1FV 172,326 746 77 C 80
K2SIG 1,332,099 1437 309 C
K2ONP 964,224 1296 248 C
K2POF 869,400 1150 252 B
WT2F 305,976 488 209 B
W2KHQ 160,512 352 152 B
AA2GS 158,400 352 150 C
M2M 133,488 309 144 C
K2RI 46,956 172 91 B
N2LBR 45,900 170 90 C
W2QYA 21,228 210 55 A
WA3INC 8,550 75 38 B
KD2IX 5,760 64 38 B
WX2N 29,559 167 59 B 20

KM1H (KQ2M,op)
3,281,718 2617 418 C
N6BV 2,912,112 2568 378 C
W1PH 1,542,468 1486 346 B
WS1E 620,802 758 273 B
WA1LNP 137,256 344 133 A
W1LQQ 42,210 210 67 C
K1OAG 20,178 114 59 C
N1HFE 15,006 82 61 B
W1FHJ (AD8V,op)

13,677 97 47 C 160
46,388 276 56 C 80
K1WGM 13,407 108 41 B 80
WB2DHY 32,112 223 48 C 80
WB2AMU 13,407 108 41 B 80
N2MBM 2,484 36 23 C 20
K2MFY 79,212 322 82 B 15
K2KTT 5,760 60 32 B 15
NN2G 75,522 307 82 C 10
WO2N 34,587 183 63 B 10

New Hampshire
NYC-Long Island

WB2TPS 406,296 627 216 C
KK2E 228,900 436 175 A
WB2DKV 146,010 310 157 B
WA2VZQ 120,900 310 130 B
K2LE 30,420 156 65 C
W2KPA 17,052 98 58 C
KC6ETY/2 (N/T)
2,730 35 26 B

WB2DHY 32,724 202 54 C 80
WB2VSY 7,452 69 36 C 40
N2K 12,200 24 20 C 20
K2F 117,546 286 137 C
K2SWZ 81,420 236 115 B C
AE2N 57,909 199 97 B
WB3X 24,069 113 71 B
AA2GQ 7,590 55 46 C

WB2AU 14,070 108 41 B 80
W2JUL 6,660 60 37 B
K3JGJ/2 32,724 202 54 C 80
K3UAV/2 648 18 12 B 80
K2MK 15,369 109 47 C 40
W2CN 17,907 127 47 C 20
W2GTM 2,046 31 22 B 10

Northern New Jersey

N2LT 2,920,020 2374 410 C
WA2VYA 930,708 1004 309 C
NR2H 869,928 1082 268 C
AA2U 728,442 849 286 A
WA2ASM 651,600 905 240 C
K2WK 435,213 729 199 C
KE2UU 354,570 530 223 B
AA2EM 339,270 526 215 B
K2DM 255,930 449 190 C
WB2CHA 200,340 371 180 C
KQ2O 142,290 510 93 C

2
Eastern New York

K1ZM 3,324,672 2496 444 C

Special Plaques

Single Operator

Position	Winner	Donor
W/VE Combined Score	K1ZM	National Contest Journal
W/VE Low-Power Combined Score	W2TZ	Rochester, New York, DX Assn
W/VE QRP Combined Score	AA2U	Dr. Marvin Tanaka, KH6MM
W/VE Novice/Tech Combined Score	KC6ETY/2	Stan Starr, KY4Q
W/VE Under-18 Combined Score	KB9BIB	Connecticut DX Assn, Father Moran, 9N1MM, Memorial
World Combined Score	4M5V (K3UOC,op)	Mike Manafo, K3UOC, 4M5V
Japan Combined Score	JH7DNO	JA7WME, JE7RJS, JH7AFR
Western United Combined Score	JA5ONK	5U7M
Atlantic Division CW	K3ZO	K2NY Memorial—Salt City DX Assn
Great Lakes Division CW	KW8N (WD8IXE,op)	Livonia ARC, Livonia, MI
Great Lakes Division Phone	K8GL	Livonia ARC, Livonia, MI
Hudson Division CW	K1ZM	Order of Boiled Owls of New York, W2AO, Memorial
Japan All-Band CW	JH7WKQ	Akita DX Assn
Japan All-Band Phone	JA8RWU	JH7YJF
Japan Low-Power CW	JR7OMD/2	Western Washington DX Club
Poland Phone	SP9LJD	Stan Wisniewski, FO5IW
Seventh Call Area All-Band W	NN7L	Willamette Valley DX Club
Seventh Call Area All-Band Phone	N7TT	Willamette Valley DX Club
Single Operator Under-18 CW	KB9BIB	Virginia Greene, WB1AVA
Single Operator Under-18 Phone	AA0CR	Virginia Greene, WB1AVA
W/VE Novice/Technician, CW	KC6ETY/2	North Coast Contesters
W/VE Novice/Technician, Phone	KC6ETY/2	North Coast Contesters

Multioperator

Position	Winner	Donor
Caribbean Multisingle CW	P49V	The YASME Foundation
Poland Multisingle Phone	SN3A	Roger Williams VHF Society, K1JFI
Multimulti Combined World	JA1YDU	W2PV Memorial—Schenectady ARA

WT3P	26,496	128	69	B
K3NL	6,642	54	41	B
N3CZB	1,296	24	18	B
WE3C	95,064	468	68	C
N3RW	15,120	105	48	C
W3SSS	528	18	11	B
W8JU	240	10	8	B
Maryland				
K3ZO	2,474,604	2083	396	C
WR3E	2,346,000	2125	368	C
W3UJ	560,142	738	253	B
W3AZ	523,110	658	265	C
W3HQV	520,425	771	225	C
W3GN	426,886	616	231	C
KE3Q	367,410	662	185	C
K3NCN	256,608	432	198	A
W3DAD	153,594	318	161	B
W1A3	114,660	245	156	B
W3CPB	112,941	267	141	B
W3UT	107,640	260	138	B
K7QA	98,559	233	141	B
W3GNQ	89,964	238	126	C
KC1IX	65,508	212	103	B
W3EE	40,500	150	90	B
W3FQE	34,068	167	68	B
WK3V	28,860	130	74	C
WD3P	17,496	81	72	C
N3Kcj	4,680	40	39	B
K3TW	123,552	528	78	C
W3EWL	100,800	420	80	C
WA3EEE	3,075	41	25	B
Western Pennsylvania				
K3MD	1,142,946	1351	282	C
AD8J	702,180	940	249	C
W3QOS	22,518	130	54	B
W1U3	9,000	75	40	B
W3GH	193,617	639	101	C
W3KYN	12,045	73	55	C
WW3S	36,075	185	65	B
4				
Alabama				
WZ4F	1,119,960	1220	306	C
KK4SM	217,704	376	193	B
KD4HA	119,700	300	133	C
W4DEC	56,864	172	114	A
KU0C/4	29,028	164	59	C
Georgia				
WX4G	878,220	1020	287	C
WA4OUN	305,040	495	205	B
N6LM	295,728	488	202	B
KN4QV	251,748	444	189	C
K4EZ	167,817	331	169	C
AA4GA	36,288	144	84	C
W1UA	23,100	100	77	B
K4ZTL	9,720	90	36	B
AC4PQ	2,640	20	44	B
K4TEA	13,248	96	46	C
KB0G	98,592	416	79	C
KB4GID	19,557	123	53	C
N4UZ	12,600	150	28	B
K4PIC	23,040	120	64	C
N4OD	6,726	58	38	B
Kentucky				
N4AR	2,080,860	1758	395	C
AB4RX	560,418	713	262	C
N1WR	421,344	616	228	B
WB4FOT	260,490	457	190	C
N4XM	101,790	261	130	C
KF4AV	12	2	2	B
WA4QMQ	41,205	205	67	B
North Carolina				
K4PQL	2,112,012	1972	357	C
N4YDU	738,924	886	278	B
W1IHN	679,794	827	274	C
K4FOY	47,430	170	93	B
WB8BMV	4,560	40	38	C
W3IUX	4,524	58	26	B
K5LZT	1,056	22	16	B
N4UH	3,741	43	29	C
AA4AS	69,966	338	69	C
WN4BBJ	13,113	93	47	C
Northern Florida				
N6AR	1,157,580	1180	327	C
W4VQ	547,842	697	262	C
W3GU	166,803	329	169	B
W3CZ	137,532	292	157	B
W4WKQ	101,844	246	138	C
AB4KL	12,408	88	47	B
K0LULZ	470,529	1413	111	C
W4HBK	77,376	403	64	C
Southern Florida				
N6AR	1,157,580	1180	327	C
W4VQ	547,842	697	262	C
W3GU	166,803	329	169	B
W3CZ	137,532	292	157	B
W4WKQ	101,844	246	138	C
AB4KL	12,408	88	47	B
K0LULZ	470,529	1413	111	C
W4HBK	77,376	403	64	C
South Carolina				
W3VT	1,200,843	1167	343	C
K0EJ	929,070	1110	279	B
K4YLY	673,308	951	236	C
N4ICL	316,384	528	201	C
KC4UH	244,125	375	217	B
W4YDD	1,482	26	19	C
W4JKC	18,564	119	52	B
N3KK	120,384	418	96	C
Southern Florida				
WD4AHZ	906,240	1024	295	B
N4TO	300,366	451	222	C
NK9C	209,253	373	187	B
K4MF	121,836	284	143	C
AA2BA	83,448	244	114	B
K4AYAE	76,125	203	125	A
W4YN	43,860	170	86	B
K1FIR	23,214	108	73	C
W3AP/4	8,580	55	52	B
K8UNP	26,448	152	58	C
KD4AS	2,970	45	22	B
W4EOE	585	15	13	B
W9GIL/4	43,848	203	72	B
W2SDB/4	3,828	44	29	B
K9ES	9,348	76	41	C
WDPBNL	48	4	4	B
WB4TDH	78,480	327	80	B
Tennessee				
W4XJ	1,555,200	1600	324	C
AB4SW	202,986	358	189	C
W4OGG	74,520	216	115	B
N1CWR	66,381	203	109	A
W4TYU	26,145	105	83	B
AC4HF	23,856	112	71	B
W4AY (WA4ZZU,op)	3,108	37	28	B
K4AMC	60,192	264	76	C
N4ZZ	294,168	952	103	C
W4IR	216,294	767	94	C
WA6KUI/4	104,829	421	83	B
N4CT	5,976	83	24	C
Virginia				
K7VS	1,071,216	1038	344	B
W4ZYT	553,812	694	266	C
WA4PGM	403,845	545	247	B
K4PFP	283,716	444	213	B
AA4XU	259,740	444	195	C
A12C	229,863	397	193	C
N3QS	170,820	365	156	B
WD4JHY	119,436	269	148	B
K4JM	104,328	276	126	B
N6MW	98,910	210	157	B
W4YE	94,833	257	123	C
W4LJM	88,440	220	134	C
K4BAM	66,054	202	109	C
W4WF	61,440	160	128	B
W4VC	58,800	200	98	B
W4XD	47,310	166	95	A
AA4KD	39,060	140	93	C
KN4MD	36,579	137	89	B
K4ARLJ	6,771	61	37	B
W4RNP	5,520	46	40	B
K6ETM/4	4,620	44	35	C
N4MM	1,512	24	21	B
N4SLR	12	2	2	C
N4AU	4,896	51	32	C
N4OT	22,560	160	47	B
W3FTG	6,570	73	30	C
W4BQF	131,706	542	81	C
KO0U	44,019	201	73	C
KT3Y	495,405	1515	109	C
K4GEL	5,148	66	26	A
WB4UBD	24,360	140	58	B
N14Y	46,104	226	68	C
WA4WQL	27	3	3	C
5				
Arkansas				
AA5BE	62,964	198	106	B
W5EIJ	38,700	150	86	B
Louisiana				
N8R	1,301,475	1295	335	C
K5KLA	440,538	617	238	B
W5ZRF	198,000	400	165	B
K5USA	86,445	256	113	C
W5WMU	258,336	897	96	C
Mississippi				
NSFG	56,175	175	107	B
K15IB	144	8	6	B
6				
New Mexico				
KT5X	13,800	100	46	C
AA5UR	7,548	68	37	B
AA5ZQ	172,938	703	82	C
W7LHO	30,267	177	57	B
North Texas				
K5RX	908,193	949	319	B
N5AW	74,000	800	310	C
KF5QR	143,715	335	143	A
W5BSB	106,449	255	137	C
W5NVO	8,541	73	39	B
K5WZX	1,482	26	19	C
KF5PE	15,912	102	52	B
W5FO	109,824	416	88	C
N5IM	86,400	360	80	B
K5MR	123,774	421	98	C
Oklahoma				
NJ1V/5	105,840	294	120	C
WV5S	1,530	30	17	C
North Texas				
K5GN	2,339,064	1989	392	C
WESP	186,249	343	181	C
K5HDX	83,160	231	120	B
W5NRY	9,312	97	32	C
N5KAE	5,586	49	38	B
N5NMY	585	15	13	C
W5TU	82,140	370	74	C
WC5D	19,080	120	53	B
N5BR	28,350	175	54	C
N5NMX	41,175	183	75	B
West Texas				
WF5E	45,954	222	69	C
KD5IA	52,836	259	68	C
NZ5M	324	12	9	B
6				
East Bay				
W6FSJ	256,473	483	177	C
K4OCO	16,320	136	40	B
W6RJ	31,104	216	48	C
W6BSY	138,288	536	86	C
Los Angeles				
N6AA	455,880	655	232	C
K6CY	254,043	291	291	C
N6IBP	46,575	135	115	B
W6NNV	32,832	144	76	B
N6JKQ	26,460	126	70	B
W6FA	25,920	135	64	B
K7TNS	190,323	477	133	B
W7WHY	177,120	410	144	C
N7MMQ	50,220	180	93	C
K7AEF	28,560	170	56	B
K7DKM	18,630	90	69	C
K7TFR	17,100	100	57	B
AA7JM	117,528	332	118	B
KAT7	114,099	521	73	C
K6RN	32,922	177	62	C
AA7PD	29,592	137	72	C
K7AVB	19,737	129	51	C
Nevada				
WA7CWM	37,422	297	42	C
Oregon				
W7YAQ	673,728	928	242	B
A7FL	248,952	506	164	C
A17B	140,292	433	108	C
K17Y	129,519	351	123	B
W7WHY	94,320	262	120	C
N7MMQ	50,220	180	93	C
K7AEF	28,560	170	56	B
K7DKM	18,630	90	69	C
AA7KF	11,730	115	34	B
K7OVM	3,042	39	26	B
Utah				
W6TQ	1,555,200	1600	324	C
W6IBP	202,986	358	189	C
W6RJ	31,104	216	48	B
W6BSY	138,288	536	86	C

WE7RBL	24,030	90	89	B	N3AHA	481,011	719	223	C	W61SA (K6VI,W6UOF,ops)	1,144,521	1473	259	C	W3MM (+WU3M)	2,290,860	1716	445	C	JR3XEX	8,160	65	32	B																	
VE7UF	28,350	225	42	C	K6XT	457,776	578	264	C	K6KM (+K5MM)	958,589	1273	251	C	K3ANS (+KE3GA,N3JGX,NU3L)	1,832,889	1411	433	C	JE3UHV	8,064	96	28	B																	
Single Operator, Assisted																																									
1	KC1XX	2,346,408	1836	426	C	K6SG	396,228	623	212	C	NV6O (+A6ALB,KM6AS)	933,303	1220	255	C	JK1NSR (+W4DA4D)	7,455	71	35	B	JA3JOT	8,064	96	28	B																
KC1F	2,061,252	1847	372	C	N6IP	376,740	690	182	C	WA61ET (+W2KVKA,KC6CEX,KJB6BK)	797,280	1208	220	C	W4MYA (+W4DA4D)	1,705,152	1328	428	C	JK1NSQ	7,176	104	23	B																	
K2TE	1,208,844	1092	366	C	K6MA	218,502	366	199	C	N6IC (+NY6Y)	75,597	223	113	C	N6CQ (+WD3U,WF3T)	1,344,264	1418	316	C	JA3OLI	6,723	83	27	B																	
W1FJ	1,061,517	1069	331	C	KC6X	188,853	391	161	C	WB2P (+K3OO)	1,182,318	1021	386	C	JG2YIV (JE2PCVY,op)	6,138	66	31	A	JG2YIV	6,138	66	31	A																	
N4DW/1	693,900	771	300	C	W9NQ/6	132,741	301	147	C	AE1D (+ops)	21,411	117	61	C	JA6IP	6,018	59	34	B	JA6IP	6,018	59	34	B																	
KT1O	679,338	803	282	C	W6RCL	32,361	161	67	B	15,207	137	37	B	NI1DWO	5,292	63	28	C	JN1DWO	5,292	63	28	C																		
W1AX	546,735	635	287	C	7																																				
AA2Z	421,632	576	244	C	WA8LLY/6	58,422	182	107	B	K0PP/7 (+KE7X,N7ML,W7LR)	827,904	1078	256	C	JE1PMQ	5,175	69	25	A	JE1PMQ	5,175	69	25	A																	
WE1F	384,483	671	191	C	8																																				
AB1A	345,144	394	292	C	W8AOSE	202,215	305	221	C	K8CX (+WR3D,KX6H)	1,608,045	1357	395	C	JH1NXU	4,761	69	23	B	JH1NXU	4,761	69	23	B																	
NY1L	283,185	465	203	C	N8JQX	90,523	227	133	C	WB8HOH (+AA8FE,KV8H)	932,310	1151	270	C	JA6XQO/1	4,704	56	28	B	JA6XQO/1	4,704	56	28	B																	
K1KP	267,597	477	187	C	K8CV	72,072	231	104	C	KJ8G (+ops)	307,764	498	206	C	JG1EIQ/3	720	20	12	A	JG1EIQ/3	720	20	12	A																	
WA1G	217,971	351	207	B	AD8C	11,610	86	45	C	KF8TW (+K8AQM)	51,381	173	99	C	JA9ANF	720	24	10	B	JA9ANF	720	24	10	B																	
W82DND	154,635	305	169	C	9																																				
KY1K	152,133	323	157	C	N9YV	38,475	171	75	B	W9XT (+K9KMA)	1,335,510	1349	330	C	7F1FYC	1,566	33	17	B	7F1FYC	1,566	33	17	B																	
N4XR	67,971	163	139	C	K9OW	25,758	106	81	B	LHW, QKY, ops)	266,256	516	172	C	7K2ODD	1,485	33	15	B	7K2ODD	1,485	33	15	B																	
K1FWF	62,790	161	130	C	K9CW	2,964	38	26	C	KF0GV (+AC0W,WA0RLY)	241,164	396	203	C	7L1LE	1,428	34	14	B	7L1LE	1,428	34	14	B																	
WA1UAR	40,194	151	84	C	0																																				
KB1T	37,599	151	83	B	K9CW	0	0	0	C	K0KE (AE0Q,KT0F,ND0V,ops)	481,770	795	202	C	JA6XAT	570	19	10	B	JA6XAT	570	19	10	B																	
WA1MBK	37,485	147	85	B	W9OP	577,752	724	266	C	KD0AV (+AC4CA,KO0AM)	331,578	507	218	B	7F1AJ	384	16	8	B	7F1AJ	384	16	8	B																	
NG1J	28,938	106	91	B	N9XX	196,173	307	213	B	AA0ET (WA3TF,KB0EBH,NOs)	266,256	516	172	C	7J1ABD	600	20	10	B	7J1ABD	600	20	10	B																	
K1KNQ	25,530	115	74	B	N9OZ	176,436	676	87	C	LHW, QKY, ops)	241,164	396	203	C	7P8SR	201,663	693	97	B	7P8SR	201,663	693	97	B																	
K8CH	11,880	66	60	C	K9OSH	115,395	245	157	C	KW9LY	5,915	222	63	C	WQ7AB (JJ1XDL,op)	48	4	4	B	WQ7AB (JJ1XDL,op)	48	4	4	B																	
N1EPU	2,838	43	22	C	K9OW	2,964	38	26	C	1																															
2																																									
K5NA	2,991,663	2031	491	C	Multioperator Single Transmitter																																				
W2GD	2,540,622	1757	482	C	1																																				
N2MM	1,716,162	1409	405	C	K2SX/1 (+N2UN)	612,990	695	294	C	K1VR (+AA1AA,W2SC)	7,882,974	4545	577	C	EA8EA (OH2MM,op)	4,730,226	5221	302	C	JA1EIQ/3	12,615	145	29	B	JA1EIQ/3	12,615	145	29	B												
K2NJ	1,125,072	1202	312	C	KM0L	566,973	758	249	C	K2SX/1 (+N2UN)	2,232,945	1735	429	C	JA0AT (AE4CA,KO0AM)	1,170	26	15	C	JA0AT (AE4CA,KO0AM)	1,170	26	15	C																	
K2BU	1,112,625	968	375	C	K0SCM	235,752	418	188	C	K2OM (+K1EFT,W1NG,ops)	1,096,272	993	368	C	W9OM (K1EFT,W1NG,ops)	2,189,796	2786	262	B	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
WA0QOA	1,101,198	1169	314	C	KR0I	17,550	90	65	C	K1MOV (+AC4CA,KO0AM)	331,578	507	218	B	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
W1GD	1,089,924	1021	359	C	K1ER	1,242	23	18	C	K2TR (+AC4CA,KO0AM)	266,256	516	172	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2MT	743,796	852	291	C	2																																				
K2DB	525,192	162	632	C	K2PS	515,151	777	221	C	K1MBO (+K1DWX)	2,232,945	1735	429	C	K1MBO (+K1DWX)	2,232,945	1735	429	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2PS	308,688	472	218	C	W2RG	294,372	442	222	B	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2SB	289,572	409	236	B	W2RG	289,572	344	227	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2AUUK	287,928	344	279	C	W2RG	287,928	344	279	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2BD	250,068	364	228	C	W2RG	250,068	364	228	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K2EP	226,876	348	179	C	W2RG	226,876	348	179	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
W2EAR	79,497	219	121	C	W2RG	79,497	219	121	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
N2VW	71,883	163	147	C	W2RG	71,883	163	147	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
W2ARQ	30,240	112	90	C	W2RG	30,240	112	90	C	K1MBO (+K1DWX)	1,096,272	993	368	C	W9XT (+K9KMA)	1,335,510	1349	330	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
W2BSPN	3,510	39	30	B	3																																				
K3WW	3,294,162	2302	477	C	K3WW	2,187,463	403	403	C	K3LR (+W3YQ,WR3G)	3,906,720	2713	480	C	K3LR (+W3YQ,WR3G)	3,906,720	2713	480	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
W3XU	2,656,389	2017	439	C	K3WW	2,187,463	403	403	C	W3BGN (+K2W2B,WREH)	3,650,787	2429	501	C	K3LR (+W3YQ,WR3G)	3,906,720	2713	480	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
K3PK	2,363,604	1848	431	C	K3WW	2,187,463	403	403	C	AA1K (+K3WVJ,WN8A)	2,329,626	1844	410	C	K3LR (+W3YQ,WR3G)	3,906,720	2713	480	C	JA1EIQ/3	1,170	26	15	C	JA1EIQ/3	1,170	26	15	C												
AA3B	1,658,748	1732	403	C	K3WW	2,187,463	403	403	C	W3GG (+WD3I)	1,653,195	1535	359	C	K3LR (+W3YQ,WR3G)	3,906,720	2713	480	C	JA1EIQ/3	1,170	26																			

Uzbekistan									
UI9AWX	10,500	100	35	C	20	F6BEE	2,103,948	2783	252 C
Tadzhikistan									
U8JMM	64,800	270	80	C		TM5GG (F6FGZ,op)	1,188,414	1923	206 B
Kazakhstan									
UL0A	167,088	472	118	C		F5IG	378,189	783	161 C
UL7BAY	1,734	34	17	C	40	F6IHE	258,930	630	137 B
UL8LWF (UL7LZ,op)	83,316	524	53	C	20	F6HWU	256,761	607	141 C
Hong Kong									
VS6WO (NA9D,op)	215,280	624	115	B		F1OBK	150,375	401	125 C
Iraq									
Y19CW	4,968	69	24	B		F6EQV	95,718	301	106 B
Europe									
Bosnia-Herzegovina									
4N4ELD	5,244	92	19	B	80	F1JDG	48,618	219	74 B
Croatia									
9A3ZG	8,820	84	35	B		F1DRAB	29,190	139	70 B
9A2TW	18,900	210	30	C	160	F1E1HII	15,180	115	44 C
9A2QU	38,988	361	36	C	80	F3VW	9,234	57	54 B
9A3IQ	132,216	797	56	C	40	F1NBX	70,752	536	44 C
9A2NW	81,408	512	53	C	80	F1LGE	64,758	502	43 C
9A7A (9A3TR,op)	239,400	1400	57	C	20	F6EPO	4,488	68	22 C
Portugal									
CR7M (CT1BOH,op)	2,784	58	16	A	20	FE1OGG	39,345	305	43 B
CT1AOZ	209,988	1228	57	C	15	F1OJV	288	12	8 B
9A3ZQ	1,134	27	14	C	15	FF6KBF (F6HSV,op)	226,026	1299	58 C
Federal Republic of Germany									
DL2NB1	1,495,440	2077	240	C		G4BUO	1,955,151	2497	261 C
DL1IAO	649,077	1157	187	B		G3MXJ	1,003,620	1556	215 C
DL5JO	498,888	984	169	C		G2QT	313,833	619	169 C
DL7VOG	252,681	589	143	B		G0IDE	240,687	569	141 B
DL7UTA	205,884	516	133	C		G5LP	216,612	547	132 C
DJ5GG	186,370	483	130	B		G3TFX	216,504	582	124 C
DL5MFF	147,000	500	98	C		G3ESF	177,072	476	124 B
DL5LYM	111,936	352	106	B		G3SXW	115,020	355	108 C
DK7ZJ	108,300	361	100	B		G5MY	111,384	357	104 B
DL3ZBJ	103,782	353	98	A		G4ZEM	60,480	252	80 B
DL2GBB	93,993	323	97	B		G3HJF	44,622	201	74 B
DF2UQ	87,453	369	79	B		G6QQ	24,957	141	59 B
DL1TH	82,719	303	91	B		G3NKS	13,992	106	44 B
DK8LV	76,824	291	88	B		G3WRR	11,400	100	38 C
DL7VOX	69,120	240	96	B		G4BLX	46,065	415	37 C
DJ8WD	57,885	227	85	B		G4ZOB	8,856	123	24 B
DL7QJ	33,735	173	65	B		G4ODV	32,190	290	37 C
DL9ZBG	33,696	156	72	B		G4UZN	6,630	85	26 B
Isle of Man									
GD0SLY (K3RV,op)	1,735,920	2411	240 C		F0ECO (W5ASP,op)	1,028,976	1768	194 C	
Scotland									
GM0ECO	1,028,976	1768	194 C		GM3ZAS	50,328	233	72 B	
GM0FFF	147,000	500	98	C	GM4HQF	26,904	152	59 C	
GM0LYM	111,936	352	106	B	GM3CSF	15,540	140	37 B	
Hungary									
GW5NF (G4VXE,op)	1,216,224	1968	206 C		H4MF	817,791	1613	169 C	
GW0/N3TJ391,314	291	84	154	C	OH4YR	260,568	616	141 C	
GW3JI	127,539	383	111	B	OH2AO	159,098	947	56 C	
GW0/KZW	32,319	171	63 B		OH4ML	148,598	406	122 B	
Wales									
GW5WN (G4VXE,op)	1,216,224	1968	206 C		OH3JF	132,870	430	103 C	
GW0/N3TJ391,314	291	84	154	C	OH3NM	48,585	205	79 C	
GW0/HV3	127,539	383	111	B	OH2YL	18,630	115	54 A	
GW0/KZW	32,319	171	63 B		OH7NW	11,280	80	47 B	
Hungary									
H4MF	81,030,113	1743	197 C		H4AKG	29,028	164	59 C	
H4MF	407,385	823	165 C		H4B5A	20,511	129	53 B	
H4E8K	229,908	644	119 C		H4AXN	19,908	158	42 B	
H4ANQ	229,824	576	133 C		H4BFW	11,250	150	25 C	
H45NG	158,382	419	126 B		H4AFV	5,481	87	21 B	
H4BCK	81,900	325	84 C		H4BZQ	51,729	401	43 C	
H4HDD	40,248	172	78 B		H4ADM	36,252	318	38 C	
H43GE	38,784	202	64 B		H4B5W	14,442	166	29 C	
H44XG	29,028	164	59 C		H4B5WJ/3	2,592	54	16 B	
H45BA	20,511	129	53 B		H4HQN	1,216,224	1968	206 C	
Switzerland									
HB9ADD	187,116	503	124 A		HB9KC	80,325	315	85 C	
HB9RE	40,044	188	71 B		HB9XY	22,896	144	53 A	
HB9WB	11,475	85	45 B		HB9BWC	47,601	369	43 C	
HB9DCC	47,601	369	43 C		HB9DX	38,055	295	43 C	
Italy									
I0ZUT	389,733	797	163 C		I2AHB	296,670	682	145 C	
I2AHB	296,670	682	145 C		I2LBL	34,884	171	68 B	
I2HQB	11,997	129	31 B		I3QAR	28,260	157	60 B	
I2AVT	78,030	510	51 C		I3MGN	24,624	144	57 B	
I2BZM	15,012	139	36	B	I3MVJ	20,770	435	136 B	
I2DZRN	828	23	12	B	I3WNE	10,668	127	28 C	
I2D0U (DL4AAE,op)	100,215	655	51	C	I4HTM	10,668	127	28 C	
Switzerland									
DL1ATO	22,428	178	42	C	DL2BF	13,500	125	36 B	
DL2OBF	13,500	125	36 B		DL2SUB	4,872	56	29 B	
DF0PP (DJ6XO,op)	2,898	46	21	B	DF5WN	7,128	88	27 B	
DF5WN	7,128	88	27	B	Spain	EA1EVW	403,920	935	144 B
EA7BJ	133,860	388	115	B	EA5CKP	133,392	397	112 B	
EC3DEA	82,236	356	77	B	EA7AAW	67,392	234	96 A	
EA2CKP	62,784	218	96	B	EA2CRNU	51,644	293	36 B	
EA2CRNU	51,644	293	36 B		EA3IW	25,326	134	63 A	
EA3DVM	2,970	66	15	B	EA7HAB	24,000	125	64 C	
EA2CIN	2,046	31	22	B	EA4DUL	15,087	107	47 B	
EA5TX	1,260	28	15	B	EA1GT	14,280	119	40 A	
EA7KC	12,420	138	30	B	EC7DWT	5,712	68	28 B	
EA7PN	69,264	444	52	C	EA2IF	128,412	738	58 C	
EI5DI	10,005	115	29	B	EA3DCM	13,761	139	33 B	
ES6PZ	10,323	111	31	B	EA5GCT	31,455	233	45 B	
Balearic Islands									
EA6NB	47,700	265	60	C	EA5DJKH	3,312	46	24 A	
Ireland									
EI9FK	182,880	508	120	B	EI5DI	10,005	115	29 B	
EI5DI	10,005	115	29 B		EI5TSS	18,450	150	41 B	
ES6PZ	10,323	111	31	B	IK3TCJ	14,070	134	35 B	
France									
UI9AWX	10,500	100	35	C	FE6BEE	2,103,948	2783	252 C	
UJ8JMM	64,800	270	80	C	TM5GG (F6FGZ,op)	1,188,414	1923	206 B	
LA9HW	141,456	421	112	C	LA2AO	101,790	377	90 B	
LA1YE	92,829	319	97	C	LA2HFA	39,096	181	72 A	
LA8NC	11,457	67	57	B	LA5AP	3,975	53	25 B	
LA6PB	630	21	10	C	LA4YH	4,278	62	23 C	
LA4YW	1,728	36	16	B	LA4YW	1,728	36	16 B	
Norway									
ON4KFM	42,525	189	75	B	ON5EJ	5,070	65	26 B	
ON4KRO	3,024	56	18 B		ON4ARJ	408	17	8 A	
ON7TK	58,842	467	42 C		OT3T (ON4UN,op)	160,050	970	55 C	
ON4ON	31,212	306	34 B		Denmark	86,025	970	55 C	
ON6CW	52,848	367	48 B		OZ3PE	86,064	326	88 A	
ON4XG	38,352	272	47 B		OZ1FTE	59,616	216	92 C	
ON4ZD	4,752	48	33 B		OZ7NB	45,225	201	75 B	
ON2RH	1,938	34	19 C		OZ5UR	4,752	48	33 B	
ON7JQ	1,587	23	23 B		OZ5WQ	3,120	65	16 C	
ON2ZM	4,002	58	23 C		OZ8BN	408	17	8 B	
ON5WQ	97,020	588	55 C		OZ4UN	97,020	588	55 C	
OZ7GF	9,114	98	31 B		OZ5MAX	90	6	5 B	
ON2ZP	11,865	113	35 B		OZ1KB	11,865	113	35 B	
ON5ABD	8,316	84	33 B		OZ5ABD	8,316	84	33 B	
Belgium									
ON4KFM	42,525	189	75	B	Belarus	1,287	39	11 C	
ON5EJ	5,070	65	2						

VP5U (N4MO,op) 320,208 1906 56 B 15	Peru OA4CWR 2,152,575 3189 225 C	UZ9CWW (+ops) 164,628 538 102 C JA6YCL (JF4CLZ,JF6KPD, J16MYW, JL6UOM,ops) 103,086 414 83 B UI8A (UI8AA,UI9ACQ,ops) 98,982 423 78 C UZ9YX1 (+ops) 95,220 460 69 C	UB5SDX,ops) 434,097 1041 139 C IK3NGR (IB3KG,IK3s HUG,NQG, NLK,OGN,ops) 427,854 854 167 C UZ1AWO (UA1AQF,UA1s 169-1219,169-1233,ops) 427,386 874 163 C DA2UK (DA2s OJ, QX,ops) 401,016 868 154 B DL8HWA (+DL2HTD,DL3HWJ) 395,928 846 156 C SP6YAQ (+ops) 381,060 870 146 C YU7FU (+YT7TW) 302,436 813 124 C UZ1OWZ (UA1s OLT,OZ, UA1s -113-244,-113-619,ops) 211,680 530 112 C UZ3AWR (UV3AEV,UA3s 170-126,170-1169,ops) 203,520 530 128 C IK4CFV (+IK4LHC) 200,304 624 107 B OE1XTU (OE1s JNB,TXW, 4N4JJ,ops) 173,988 537 108 C GS4TMS (+GM4UYE) 172,377 537 107 C OK2KD5 (OK2VWB, OK2-22268,ops) 136,746 426 107 B SK0HB (SM0s AIG,MZL,SYP, THN,ops) 131,976 423 104 C SK6AW (SM6s CVE,DED,DGF, EHY,GBM,IQD,LFJ,ops) 125,514 367 114 C UZ4HXX (RA4HRL,UA4s HOX, HVX,ops) 103,410 383 90 C OK1OKE (OK1s DUT,FUT,HPW, VBA,ops) 58,650 230 85 C UZ4AYP (+ops) 41,814 303 46 C OZ5EDR (+OZ5ABN,OZ8s JG, SW,OZ9MM) 23,016 137 56 B UB4PWC (UB5PCU,UB5s -058-221,-058-222,ops) 20,562 49 46 B UZ3QWM (PW3QW,UA3s 121-3102,121-3105,ops) 5,760 64 30 B SP3KPN (+ops) 216 9 8 B	W90CW (DL2RUM,DL7s UFR,URH, UUQ,VTKS,ops) 1,864,233 2667 233 B KC6OK (+KC6s GG,RR) 800,784 1328 201 C ZL2NX (ZL2s AGY,BSJ,IN, ZL4OY,ops) 157,416 937 56 B
Mexico XE1/A6GRX 1,251,852 2129 196 B XE1/JA1QXY 123,444 762 54 B 40	Aruba P40M (K5GO,op) 4,845,000 4750 340 C	Europe TM9C (F5IN, F6HSH,ops) 2,657,979 3153 281 C TM5C (F8s CTT,DZS,EMT,ops) 2,275,320 2830 268 C OL1A (OK1s DFF,DIX,DWX, FCW,FI,AU,FA,OK2BNF,ops) 2,015,490 2645 254 C 18RIZ (+I2UJT,IK2DVG,7ALE, 8IULL) 1,934,298 2161 246 C DF5UL (+DL2s MEH,SCJ) 1,549,296 2226 232 C E17M (E1D3P,E1BZ,E15HB, E16BT,E19HC,ops) 1,545,600 2300 224 C OM3KFF (OM3s TLU,TPG,TPW, TYQ,ops) 1,507,896 2148 234 C OH2HE (+OH1JT,OH6CT) 1,348,200 2140 210 C OH2HC (+OH1JT,OH6CT) 1,348,200 2140 210 C HG5C (HA1AD,HA5MO,HA7XQ,ops) 1,347,570 2170 207 C DK0EE (DL3MFZ,DF4U,DL4s MCF,MDK,DK6WL,ops) 1,335,936 1988 224 C OL3A (OK1s DWQ,FPO,FWM,OK2s PS2,PZQ,ops) 1,298,916 1899 228 C UR8J (+ops) 1,235,655 1695 243 C EA4KA (+EA4BB) 1,225,308 2012 203 C DL0CE (DL1s EDB,ELKM, DL2EBX,DL8BOD,ops) 1,161,735 1889 205 C DF0RR (DL7s AKC,PV,UBA, VTM,ops) 1,134,336 1688 224 C OM3KAG (OM3s CIR,TRU,TWR, TZI,WDX,ZFM) 1,019,730 1789 190 C OH2PM (+OH1WZ) 975,390 1586 205 C OH0BBF (+OH2IC) 911,988 1617 188 C EA7RCL (EA7s FL,GZJ,TL,ops) 847,200 1412 200 C IK2HDG (IK2s DID,GWH,HDF, MLW,OA,SFZ,SGC,ops) 723,330 1629 190 B IK0IXI (+I0s MM1,MYQ,IK0s LZR, PHU,SVD) 616,392 1223 168 B GB5CW (KT4W,AA5MC,ops) 514,305 1039 165 C US7I (RB5ID,BS3s IM,IO,ops) 470,610 945 166 C UB4SWB (UB4S/UB4LRQ,UB4LSB, UW0CR,ops) 193,860 718 90 B	South America 5H3XX (+5H3s MT,RA) 598,764 1217 164 B	
Cayman Islands ZF1A (KT6V,op) 4,204,098 4506 311 C	Netherland Antilles PJ9JT (W1BHQ,op) 2,485,728 2877 288 C	Europe UZ9CWW (+ops) 164,628 538 102 C JA6YCL (JF4CLZ,JF6KPD, J16MYW, JL6UOM,ops) 103,086 414 83 B UI8A (UI8AA,UI9ACQ,ops) 98,982 423 78 C UZ9YX1 (+ops) 95,220 460 69 C	South America 5H3XX (+5H3s MT,RA) 598,764 1217 164 B	
Oceania Philippines N7ET/DU7 10,602 93 38 A DU3HF 2,268 84 9 B 40	Brazil PY2OU 496,353 1157 143 B PT7AQ 274,707 699 131 B PY2IAK 38,664 179 72 A PY7FNE 20,139 137 49 A PX2A (PY2KP,op) 19,065 155 41 B 20 PY2NY 13,974 137 34 B 20 PY2HF 8,019 81 33 B 20 PY1BNE 6,750 75 30 C 20 PY1JLA 113,568 728 52 B 15 PS4V (PY4V,op) 84,456 552 51 B 15 PY2YP 44,496 309 48 B 15 PY2APQ 4,872 58 28 B 15 PV8ZDC 576 16 12 B 15 PY2YN 21,672 172 42 B 10	Europe TM9C (F5IN, F6HSH,ops) 2,657,979 3153 281 C TM5C (F8s CTT,DZS,EMT,ops) 2,275,320 2830 268 C OL1A (OK1s DFF,DIX,DWX, FCW,FI,AU,FA,OK2BNF,ops) 2,015,490 2645 254 C 18RIZ (+I2UJT,IK2DVG,7ALE, 8IULL) 1,934,298 2161 246 C DF5UL (+DL2s MEH,SCJ) 1,549,296 2226 232 C E17M (E1D3P,E1BZ,E15HB, E16BT,E19HC,ops) 1,545,600 2300 224 C OM3KFF (OM3s TLU,TPG,TPW, TYQ,ops) 1,507,896 2148 234 C OH2HE (+OH1JT,OH6CT) 1,348,200 2140 210 C OH2HC (+OH1JT,OH6CT) 1,348,200 2140 210 C HG5C (HA1AD,HA5MO,HA7XQ,ops) 1,347,570 2170 207 C DK0EE (DL3MFZ,DF4U,DL4s MCF,MDK,DK6WL,ops) 1,335,936 1988 224 C OL3A (OK1s DWQ,FPO,FWM,OK2s PS2,PZQ,ops) 1,298,916 1899 228 C UR8J (+ops) 1,235,655 1695 243 C EA4KA (+EA4BB) 1,225,308 2012 203 C DL0CE (DL1s EDB,ELKM, DL2EBX,DL8BOD,ops) 1,161,735 1889 205 C DF0RR (DL7s AKC,PV,UBA, VTM,ops) 1,134,336 1688 224 C OM3KAG (OM3s CIR,TRU,TWR, TZI,WDX,ZFM) 1,019,730 1789 190 C OH2PM (+OH1WZ) 975,390 1586 205 C OH0BBF (+OH2IC) 911,988 1617 188 C EA7RCL (EA7s FL,GZJ,TL,ops) 847,200 1412 200 C IK2HDG (IK2s DID,GWH,HDF, MLW,OA,SFZ,SGC,ops) 723,330 1629 190 B IK0IXI (+I0s MM1,MYQ,IK0s LZR, PHU,SVD) 616,392 1223 168 B GB5CW (KT4W,AA5MC,ops) 514,305 1039 165 C US7I (RB5ID,BS3s IM,IO,ops) 470,610 945 166 C UB4SWB (UB4S/UB4LRQ,UB4LSB, UW0CR,ops) 193,860 718 90 B	South America 5H3XX (+5H3s MT,RA) 598,764 1217 164 B	
Guam KN4DG/KH2 2,646 42 21 B KH2T 1,014 26 13 C 40	Hawaiian Islands KH6NO 2,210,346 2622 281 C AH5HJ 1,028,151 1609 213 C K9VV/H 8,064 96 28 C 160 KH6XT 78,792 536 49 C 40 KH6HT 180,612 1038 58 C 15	Eastern Kiribati T32AF (KH6UR,op) 227,244 1306 58 C 40	Asia JA1YFG (JP1FGQ,JO1BRW, JS1MJE,JO3AXP,ops) 381,291 853 149 B	
Marshall Islands V73C 1,249,416 1876 222 A	Venezuela 4M5V (K3UOC,op) 2,603,040 2992 290 C	Europe YV1OB 114,348 733 52 C 80	Europe HG5A (HA5s AWH,GF,IW,MK, ML,OM,T,I,HA5s BGG,CCC, HA7s RY,BV,ops) 3,453,240 4111 280 C	
Australia VK2APK 1,074,708 1674 214 B VK8AV 532,170 1095 162 C VK2NV 17,328 76 76 B VK8BE 2,280 38 20 B VK6GH 10,788 116 31 B 40 VK3APN 3,864 56 23 B 40 VK4TK 27,183 221 41 B 20 VK4XA 75,852 516 149 B 10	Single Operator, Assisted VK2APK 1,074,708 1674 214 B VK8AV 532,170 1095 162 C VK2NV 17,328 76 76 B VK8BE 2,280 38 20 B VK6GH 10,788 116 31 B 40 VK3APN 3,864 56 23 B 40 VK4TK 27,183 221 41 B 20 VK4XA 75,852 516 149 B 10	Marine Mobile W7SW/MM3 696 29 8 B 40	Europe HG5A (HA5s AWH,GF,IW,MK, ML,OM,T,I,HA5s BGG,CCC, HA7s RY,BV,ops) 3,453,240 4111 280 C	
Pitcairn Is VR6BB 220,875 589 125 B	Multioperator Single Transmitter	Single Operator, Assisted VQ9IO (+VO9AC) 6,912 72 32 C	Asia JA7SUR 156,648 488 107 B JR4GPA 20,460 155 44 B	
Indonesia YB3OSE 41,241 233 59 B YB2UDH 1,230 41 10 B 40 YB2FEA 192 16 4 B 15	Europe ON4VWW 463,680 920 168 B DK7ZT 321,750 750 143 C F1OIE 131,352 421 104 B	Multioperator Single Transmitter	Asia JA7SUR 156,648 488 107 B JR4GPA 20,460 155 44 B	
South America Chile CE3BFZ 188,370 546 115 C	Asia EA4KR/EA8 (+EA1AK) 3,270,939 3799 287 C	Single Operator, Assisted VQ9IO (+VO9AC) 6,912 72 32 C	Asia JA7SUR 156,648 488 107 B JR4GPA 20,460 155 44 B	
Ecuador HC1MD/4 (NE8Z,op) 222,024 1276 58 C 15	Asia JA3YBB (JA3s FHL,PJL,JE3TXA, JG3CAY,JH3FBS,JA3SER,ops) 969,528 1624 199 C	Multioperator Single Transmitter	Asia JA1YDU (JF1QOW,JO1BMV, JS1INN, JF7TFK, JH8PNE, JH0NZN, JR6ZQF, J7K1OQE,ops) 1,552,776 2231 232 C	
Argentina LU1EWL 241,056 648 124 B LU1WFA 83,505 293 95 C LU5EW 1,890 30 21 C 20 LU1FNH 64,260 420 51 A 10	Asia JA1ZLO (JJ1MED,JO1LWF, JN2MRJ, JF3TBL, JG4DDN,ops) 474,789 983 161 C UZ0CWW (UA0s CF,CHW, UW0CR,ops) 193,860 718 90 B	Single Operator, Assisted VQ9IO (+VO9AC) 6,912 72 32 C	Europe JA1YEW (JA1WYZ,JA1FWX, JA9-10148,ops) 99,528 377 88 B	
PHONE W/VE Single Operator 1	Asia JA3YBB (JA3s FHL,PJL,JE3TXA, JG3CAY,JH3FBS,JA3SER,ops) 969,528 1624 199 C	Connecticut K1EFI 725,760 756 320 C K1VDF 518,988 709 244 C K1VWL 472,500 630 250 B K1DW 433,242 639 226 B WA1ECA 271,410 415 218 C K1IN 199,584 378 176 C WO1P 183,447 327 187 C WV1WC 173,304 346 166 C N1MM 147,840 352 140 C KA1CZF 147,258 303 162 A N1KWF 45,524 156 93 B N2LTK 23,598 114 69 C AA1CB 17,100 100 57 B K1IRI 12,702 73 58 C K1NCD 10,716 76 47 B K1TN 8,319 59 47 B K1BNO 3,915 45 29 B NA1O 588 14 14 A W1CKA 2,652 34 26 C 160 WB1CBBY 9,828 84 39 B 80 KA1WIF 5,655 63 35 B 40 W0MHK 75,480 296 85 B 20 K1YXG 22,935 139 55 B 20 WE1M 11,808 82 48 B 20 KS1L 602,937 1467 137 C 15 AB1U 6,327 57 37 C 15 KA1DSQ 3,096 43 24 C 15 N1NQD 13,230 90 49 B 10	Maine W1OO 2,147,148 1692 423 C KC1V 214,650 450 159 C KA1EAP 1,539 27 19 C K1UO 147,882 503 98 C 40 N1AFC 61,494 276 74 A 15 NY1E 190,800 636 100 C 10	North America V26AS (V21AS,YU1s NR,RL,ops) 4,572,720 5229 292 C XE2EBE (AA6DP,N6PE,NF6H,ops) 2,902,437 3131 309 C V31RL (+V31Z) WL7E (+NL7GP) 1,422,864 1928 246 C
Eastern Massachusetts N1HQH 869,526 938 309 C KA1DWW 798,870 859 310 C W1KRS 516,402 657 262 C WB2DND 345,807 499 231 C W1MK 202,032 368 183 C N1HVK 150,849 333 151 B N1DEA 123,540 284 145 C W1GOU 99,696 248 134 B A13E 47,142 162 97 C WA1LXP 45,570 155 98 B	Western Massachusetts W2SC 2,455,479 2031 403 C N1FUS (N/T) 18,315 111 55 B 10	Rhode Island K1VSJ 342,108 516 221 B K1DS 39,858 146 91 C W1RFQ 25,704 153 56 C 15	Europe AA2GQ 1,765,782 1578 373 C KB2BF 739,704 952 259 C N2MR 395,280 540 244 C K2FL 294,336 511 192 C W2PAU 280,584 433 218 C N2LTLR 109,296 253 144 C K3JGJ/2 101,400 260 130 C W2FGY 78,975 225 117 B W2ORA 57,225 175 109 B AB2Y 34,293 161 71 C W2AVSQ 34,290 127 90 B KA2KFO 23,615 123 64 C K2RNM 21,186 166 66 C W2CN 19,497 97 67 C WB3X 16,560 92 60 B W2SDO 4,059 41 33 C KA2YKNN 3,762 38 33 B N2AWC 2,754 34 27 C KD2AE 1,650 25 22 B KZ21 202,800 593 114 C 10 N2PKP 65,736 249 88 C 10	South America AA2GQ 1,765,782 1578 373 C KB2BF 739,704 952 259 C N2MR 395,280 540 244 C K2FL 294,336 511 192 C W2PAU 280,584 433 218 C N2LTLR 109,296 253 144 C K3JGJ/2 101,400 260 130 C W2FGY 78,975 225 117 B W2ORA 57,225 175 109 B AB2Y 34,293 161 71 C W2AVSQ 34,290 127 90 B KA2KFO 23,615 123 64 C K2RNM 21,186 166 66 C W2CN 19,497 97 67 C WB3X 16,560 92 60 B W2SDO 4,059 41 33 C KA2YKNN 3,762 38 33 B N2AWC 2,754 34 27 C KD2AE 1,650 25 22 B KZ21 202,800 593 114 C 10 N2PKP 65,736 249 88 C 10
2	Eastern New York K1ZM 4,034,052 2684 501 C	Northern New Jersey N2LT 3,238,497 2383 453 C W1GD 1,623,091 1310 413 C KE2ZZU 703,152 771 304 B AA2U 702,684 786 298 C K3FVN 313,110 497 210 B AA2EM 171,361 357 160 B WA2ASM 138,861 333 139 C W1QGC 103,530 290 119 B	Western New York W2LCC 1,918,836 1956 327 C W2TZ 1,055,610 1110 317 B N2INN 90,009 219 137 B WA2UJK 367,635 541 245 B KA2B 367,545 535 229 B WA2LJY 300,150 435 230 C KA2UDE 233,700 410 190 C KQ2O 35,250 250 47 C	Eastern Pennsylvania W3BGN 3,097,584 2352 436 C KA3DSW 612,216 773 264 C KB3TS 571,290 685 276 C KQ3V 431,871 569 253 A K3TEJ 396,660 601 220 C NY3Y 322,650 450 238 B W3EVW 242,400 404 200 C N3RW 216,944 404 179 C AD3Z 206,568 302 228 C WT3 187,944 382 164 B KS3F 136,170 255 178 B W3NTD 129,987 303 143 B W3EHZ 116,640 270 144 B W3GM 103,224 253 136 C KA3TLE 80,388 251 116 B W3QIR 62,037 183 113 C K4JLD 32,868 132 83 C N3KFG 32,400 150 72 A

K3IE	24,750	110	75	B	WN4K	7,560	72	35	B
KA3LCF	23,040	120	64	B	W4NOO	5,487	59	31	B
A43CN	16,434	83	66	B	KN4LJ	2,046	31	22	B
W3EAN	13,104	84	52	C	W4YWA	855	19	15	B
WB3LNZ	5,040	48	35	C	KD4AS	1,500	25	20	C
W8IJ	297	11	9	B	W1AYR	3,510	39	30	C
WT3W	867	17	17	B	W4YN	1,425	25	19	B
WE3C	73,125	325	75	C	W2SDB/4	1,188	22	18	B
N3EC	42,720	160	89	C	KB4ERI	3	1	1	B
W3SSS	8,100	75	36	B	K9ES	374,220	945	132	C
Maryland									
K3ZO	2,728,713	2257	403	C	KC4HW	85,836	311	92	B
WR3E	2,664,810	2042	435	C	KO4QW (WC4E,op)	437,004	1194	122	C
N3UN	585,750	710	275	C	WD4OAY (N/T)	24,570	126	65	B
W3UJ	544,068	714	254	B	KD4ODA (N/T)	1,575	25	21	B
N3KUJ	88,560	246	120	B	KD4WEH (N/T)	288	12	8	B
W3ERN	35,757	137	87	B					
WK3V	17,424	88	66	C					
W3CPB	17,220	82	70	B					
W3FOE	11,388	73	52	C					
W3EE	9,024	64	47	B					
WJ3N	5,616	48	39	B					
KE3AO	216	9	8	B					
K3TW	15,759	103	51	C					
WA3EEE	55,161	227	81	B					
W3EWL	214,830	651	110	C					
WB3AVN	81,432	348	78	C					
N3HXB	193,026	607	106	C					
WR3L	71,379	231	103	B					
WB2BZR/3 (N/T)	3,952	163	89	C					
W6AXX	36,613	211	61	C					
KA3UIH	20,358	117	58	B					
Western Pennsylvania									
WW3S	277,200	400	231	B					
N3GSC	141,600	295	160	C					
WU3J	40,500	135	100	C					
N3NC3	18,765	139	45	B					
W3EIW	8,496	59	48	B					
W3GWH	117,030	415	94	C					
K3MD	406,536	1303	104	C					
NW3C	114,285	401	95	C					
WB0IWG (N/T)	3,960	44	30	A					
4									
Alabama									
WZ4F	1,951,266	1622	401	C					
KE4BM	635,850	785	270	C					
K0RNZ	364,425	565	215	B					
N4UN	301,740	470	214	C					
W4DEC	74,625	199	125	A					
KD4HA	60,564	186	103	C					
WA4ERU	40,020	145	92	B					
W4NTI	26,568	123	72	C					
Georgia									
KB0G	919,200	800	383	C					
K4BAI	280,725	475	197	B					
KB0JKW	38,367	147	87	B					
K4TEA	884	18	16	C					
W4GTS	70,209	269	87	C					
KB4BBC (N/T)	14,688	102	48	B					
KD4IEY (N/T)	3,900	52	25	C					
Kentucky									
N4CBR	426,306	626	227	C					
KM4TY	317,844	486	218	B					
KC4DWT	236,418	433	182	C					
WB4FOT	149,760	320	156	B					
N4YUS	102,465	253	135	B					
N4DIT	49,296	158	104	C					
WA4QM	78,108	283	92	C					
North Carolina									
N4UH	902,682	1034	291	C					
KI4HN	296,352	441	224	C					
KC4NKR	158,424	328	161	B					
WB8BMV	44,070	130	113	C					
K5LZT	585	15	13	B					
KF4HHE	2,856	34	28	C					
WD8LYN	12,150	81	50	B					
W3TUX	3,432	44	26	B					
N4MO	254,352	757	112	C					
K4FOY	22,272	128	58	B					
WN4BBJ	17,157	133	43	C					
WB4HFL (N/T)	33,600	160	70	B					
Northern Florida									
N6AR	480,150	582	275	C					
W4WKQ	245,700	450	182	C					
W4WTO	50,676	164	103	C					
W3GUJ	21,012	103	68	B					
K4JDV	26,100	145	60	B					
N9RVB	11,160	120	31	C					
KQ4GC	104,076	413	84	C					
K4XS	620,784	1437	144	C					
KD4HXT (N/T)	25,920	135	64	B					
W9CNF/4	1,932	28	23	B					
South Carolina									
K4YLL	1,342,794	1373	326	C					
N3KK	584,568	1412	138	C					
W4YDD	17,136	102	56	B					
Southern Florida									
K4VUD	971,040	1120	289	C					
W4WQK	245,700	450	182	C					
W4WTO	50,676	164	103	C					
W3GUJ	21,012	103	68	B					
K4JDV	26,100	145	60	B					
N9RVB	11,160	120	31	C					
KQ4GC	104,076	413	84	C					
K4XS	620,784	1437	144	C					
KD4HXT (N/T)	25,920	135	64	B					
W9CNF/4	1,932	28	23	B					
West Texas									
N5RZ	2,565,888	2056	416	C					
K5G5YA	216,558	454	159	B					
K5BSYVT	69,498	198	117	B					
K5DX	44,688	106,720	240	151					
WD51QA	40,500	150	90	C					
WD5AH	26,001	107	81	C					
K5HDU	10,971	69	53	C					
N5NMX	14,100	100	47	C					
K5OC	70,656	256	92	C					
North Texas									
N5PXY	216,558	454	159	B					
K5G5YA	216,558	188	134	B					
K5BSYVT	69,498	198	117	B					
W5KFT	114,750	510	75	C					
WF5E	13,608	84	54	C					
N5ZM	2,475	325	25	B					
WA5QCP (N/T)	15,792	112	47	B					
6									
N6BL	336,885	607	185	C					
KK6KX	68,526	243	94	B					
W6RJ	62,016	304	68	C					
N6RO	11,907	63	63	C					
W6BSY	259,245	829	105	C					
East Bay									
K7PE	2,046	31	22	C					
N7XS	19,812	127	52	C					
W7UP	102,084	362	94	C					
W7AYY	37,386	201	62	C					
7									
N7RJ	110,448	312	118	A					
K6TPE	95,319	267	119	C					
N7XS	19,812	127	52	C					
W7UP	102,084	362	94	C					
W7AYY	37,386	201	62	C					
Los Angeles									
N7ER	83,520	232	120	C					
W7LGG	14,418	89	54	C					
W7TV	35,280	210	56	C					
Idaho									
KE7RT	45,666	258	59	B					
K6RN	54,978	238	77	C					
Montana									
KC7UP	241,488	468	172	C					
AA7PD	193,584	436	148	C					
KG7VQ	12,804	97	44	B					
K7ABV	69,870	274	85	C					
Illinois									
WS9V	1,352,340	1366	330	C					
KS9B (KB9BIB,op)									
K9JLJ	795,108	766	346	B					
W9KIA	173,619	303	191	C		</td			

K0BJ	104,706	277	126	C	N1EPU	37,209	157	79	C	K8CV	267,651	431	207	C
W0CEM	25,550	118	75	C	N1IUN	35,784	168	71	B	K8DD	124,320	259	160	C
W0SPF	10,428	79	44	B	KB1H	19,158	103	62	C	N5ACP	108,370	223	162	C
KA0CKN	9,828	63	52	B	WS1L	12,792	82	52	B	WB8SFF	108,174	242	149	B
KG0BZ	6,000	50	40	A	W1AW (KB1GW,op)	8,568	68	42	C	N8AGU	98,271	183	179	C
NO0Y	1,242	23	18	B160					KT8Y	85,077	207	137	C	
Minnesota									AG8Y	15,276	76	67	B	
AC0W	482,922	594	271	B	WA0QOA	1,210,230	1130	357	C	K8CX	12,900	86	50	C
KE0UI	290,472	494	196	B										
W0ML	101,394	262	129	C	W2GD	1,164,834	954	407	C	4				
W0YA	57,024	176	108	C	KE2VB	1,137,705	1039	365	C	W5HHV (+KH6ND)	1,017,405	983	345	C
KA0ZPP	36,105	145	83	B	K2OWE	1,120,878	999	374	C	W4AQL (KC4QFR,KD4EGX, WD4DW,N7FY1,N9HZQ,ops)	259,572	388	223	C
W0HW	12,480	80	52	C	KF2U	1,060,611	1013	349	C	W4PRO (+KO4MR,WB4GCS)	161,733	377	143	C
KB0KDP	147	7	7	B	WR2G	802,944	816	328	C	KO4MF (+KC4URI)	70,059	193	121	C
W0RXL	7,137	61	39	C 40	KE2UV	647,757	727	297	C					
K0IHG	8,658	74	39	B 10	N2VV	645,192	618	348	C	5				
KA0ZA (N/T)	1,530	30	17	B 10	KF2ET	645,016	638	337	C	K7UP (+KF7E)	1,090,800	1200	303	C
Missouri					K2WK	611,280	720	283	C	W9QY (+N8s SEH,XWU,NZ5V, WX5X) 537,834	638	281	C	
K4VX/0 (AA0CR,op)	1,524,432	1456	349	C	K2JLA	505,452	577	292	C	N5FG (WA4BPK,KB5S LIY,WQ, N5UBW,WASSUE,WBSVCE, WNS1JZ,WDOGM,ops)	263,445	455	193	C
K0IFL	276,192	411	224	C	N2AI/F	467,748	549	284	C	N5PYD (-ops)	108,675	207	175	C
W0PKO	104,784	236	148	C	K2NJ	462,375	685	225	C					
N0SRJ	30,012	122	82	C	K2DB	460,902	494	311	C	6				
K0JPL	28,080	117	80	C	WU3A	417,300	535	260	C	W6EEN (+K6XC,K6SAR)	1,755,549	1823	321	C
KF0ZD	12,825	75	57	C	KF2MM	410,643	603	227	C	NV6O (AA6s LB,WJ,K6TC,N6SN0)	1,317,483	1343	327	C
KF0QM	7,434	59	42	B	N3KR	407,088	528	257	C	KV6H (+N6IYs)	748,095	941	265	C
KA0P	3,240	40	27	B	KD2NT	264,000	400	220	C	W6OAT (+W6RRG)	533,619	633	281	C
KM0J	27,450	150	61	C 80	NS2K	220,095	335	219	B	AB6JZ (+N6MSQ)	5,447	303	83	C
NW7Q	134,794	478	94	C 15	W2ARQ	140,085	283	165	C	K6LY (+A6EG,KD6ITB,K6DCS, KQ6G) 34,008	218	52	B	
KM0L	62,016	272	76	C 15	KF2O	1,386	22	21	C	N7LTO (+W6OU)	4,320	80	18	B
WB0GFV	28,275	145	65	B 10										
North Dakota					3									
W800	668,736	774	288	C	K3WW	3,415,464	2132	534	C	7				
WI9H/0	15,456	92	56	B 20	K3IPK	2,818,314	1933	486	C	W7RM (+AA7NX,KL7IZC,N7PKB, NV7F,WT7WL)	1,347,990	1715	262	C
ND1H	35,319	193	61	B 15	N3AD	2,753,184	1904	482	C	N7UJJ (+N7ZTX)	126,546	322	131	B
Nebraska					NW3Y	1,790,712	1428	418	C	AA7BG (+N7XLV)	94,872	236	134	C
W8OLL	25,704	119	72	C	NN3Q	1,665,552	1341	414	C	N7NPC (N/T)	30,912	184	56	B
VE					W3FV	1,200,384	1042	384	C					
Newfoundland					K3ND	1,065,141	957	371	C	8				
VO1XC	107,100	255	140	B	AA3B	1,015,056	848	399	C	K8AZ (+KJ3L,K8NZ,K8WM,NI8L, NX8R,WT8C)	4,130,820	2598	530	C
VO1LT	12,012	91	44	B 15	K3OO	713,115	795	299	C	KW8N (+N7PKB)	3,412,530	2298	495	C
Prince Edward Island					K3II	695,250	618	375	C	A8A8 (+N3KOU,K8s OC,MJZ, KB8INQ,UF,KD8B,KF8QE, N8s BNE,CC)	3,206,268	2418	442	C
YV2SS	645,888	928	232	B	KZ3H	586,866	623	314	C	K8LX (+WA8ZDT)	1,261,395	1171	374	C
Quebec					K9NZ	156,156	286	182	C	W8BMTT (KA8CMR,N8s MRI,RWS, SF6,WBBMIW,WDBPUP,WK8X, WM8C,ops)	5,435,661	3224	562	C
VE2AYU	655,248	803	272	C	W3QV	290,493	477	203	C	NF2L (+K2B TU,K2Y, WB2DN,IN,WY2X,K3KHN)	4,603,365	2745	559	C
VE2AWR	30,000	125	80	B	K3QJN	556,827	593	313	C	NK7U (+KG6LF,WA6QOF, AA7TF,N7BZQ,W7ZJ)	5,746,284	3534	542	C
VE2EM	16,929	99	57	B	W3QJ	418,603	513	272	C	K3ANS (+WB2K,KE3GA,N8s ADL, IDP,MKZ,NU3L,WJ8F)	4,411,281	2655	553	C
Ontario					K3XJD	411,076	523	262	C	KY1H (+AA1AS,KB1W, NU1P,AA2MF,KB2R,AK4L)	5,918,531	3889	593	C
VE3RM	1,156,680	1224	315	B	K3ATO	388,188	492	263	C	NF2L2 (+K2B TU,K2Y, WB2DN,IN,WY2X,K3KHN)	4,380,192	2724	536	C
XK2AT	702,080	1085	216	C	N1SP	373,488	502	248	C	W0AIH (AA9D,K9PW,WK9BJM, WB9EE,WA9R,K9VF,V,NOs	2,169,450	1607	450	C
VE3RRH	348,894	497	234	B	K4K3Z	333,201	439	253	C	W2DOX (-WB3FZ)	1,840,356	1308	469	C
VE3CWE	230,325	415	185	C	W3N3X	314,388	426	246	C	WN3K (+N7YC,WW3F)	636,870	710	299	C
XK3ITA	123,816	268	154	B	W4AIG	427,503	719	379	C	N4DW (+ops)	55,917	171	109	C
VE3WZ	49,386	163	101	B	W4BLX	801,204	746	358	C	K4PD (NW1N,K4VCO,KD4US, KE9IG,ops)	55,440	176	105	C
VE3ZTH	42,723	141	101	B	N4MM	792,207	793	333	C					
XK3RL (VE3LH,op)	35,328	128	92	B	W4RDU	740,052	732	337	C	DX Phone				
VE3SKX	32,370	130	83	B	K8BU	4,534,068	2804	539	C	Single Operator				
VE3TPB	26,325	117	75	B	KG4W	1,889,450	1350	468	C	Africa				
VE3ECH	19,800	100	66	B	NK4J	1,638,210	1345	406	C	Tanzania				
VE3VSM	16,128	84	64	B	W8BD	878,985	765	383	C	5H3MT	1,302	31	14	B 20
VE3TEE	588	14	14	B	W4APM	817,503	719	379	C	Nigeria				
VE3ST	264	11	8	C	W4RJW	223,396	378	197	C	N9MDW/5N6	134,652	458	98	B
VE3POS	16,362	101	54	C 80	W4H4W	194,910	365	178	C	Niger				
VE3ZD	122,400	400	102	C 15	N4EKR	98,892	268	123	C	5U7M (JH4NMT,op)	2,269,938	3586	211	C
VE3WDJ	17,172	108	53	B 15	W4DVR	173,280	304	190	C	Kenya				
VE3HG	11,880	99	40	B 15	N4AA	462,840	580	266	C	N9LCR (+N9MCN)	81,528	316	86	C
VE3HX	42,354	181	78	B 10	W4BHU	292,353	437	223	C	KC9IC (+KA9s GTX,GTY,N9HJ)	12,570	202	120	57
Saskatchewan					AB4RU	292,353	437	223	C					
VE5CX	14,520	88	55	B	KC6X	409,224	578	236	C	Africa				
VE6AV	45,738	154	99	B	K6SG	381,024	504	252	C	Tanzania				
VE6SH	17,568	96	61	A	N6CL	327,888	506	216	C	W9QY (+K9RCB,K9FOX,N9AW, NB9C,WE9V)	1,197,495	1157	345	C
VE6SF	1,311	23	19	C 80	W6TKF	479,220	815	196	C	N9IUO (+K9RCB,N9KAH)	694,485	759	305	C
British Columbia					W6AFAE	422,242	314	151	C	KE9UR (+KA9WRL,KE9WC,N9s JER,LFY,W9BQ)	1,295,802	1158	373	C
VE7SZ (VE7NT,op)	2,277,444	2246	338	C	W6BIP	151,803	303	167	C	K9FDU (+N2PQ,N3SL,KG5EG, WA8SWM,KC0GU,NS0W)	3,779,787	2437	517	C
VE7IN	548,772	973	188	C	W6AFAE	142,242	314	151	C	N9SBIW (+N0TV,NW0F)	447,758	559	267	C
VE7XO	163,236	446	122	C	W6AFAH	875,725	225	127	C	W3GRW (+WB7VH)	329,940	585	188	C
VE7JMN	78,000	260	100	B	W6A6HF	197,778	361	166	C	WB0SVA (N9LUF,A0AW, K6B0s DBO,DJX,NOs TCR,UJK, UOZ,ops)	1,304,047	1211	369	C
VE7RBL	63,075	145	145	B	W6C6K	409,224	578	236	C	127,224	279	152	B	
VE7LET	49,590	285	58	B	W6G5G	348,984	524	222	C	DX Phone				
VE7CFD	35,498	204	58	B	N6CC	327,888	506	216	C	Single Operator				
VE7EKS	1,092	52	7	A 10	W6BIP	151,803	303	167	C	Africa				
Single Operator, Assisted					W6BIP	151,803	303	167	C	Tanzania				
1					W6BIP	151,803	303	167	C	W6BIP (+VE3OI)	390,744	536	243	C
K1TO	3,074,415	2113	485	C	W6BIP	151,803	303	167	C	VE3RFA (VE3RMX)	191,646	378	169	C
KC1F	2,386,098	1854	429	C	W6BIP	151,803	303	167	C	VE6AO (+ops)	182,856	401	152	C
KC9Z	1,613,841	1093	353	C	W6BIP	151,803	303	167	C	Mozambique				
K1HMO	1,008,126	882	381	C	W6BIP	151,803	303	167	C	K10SNA (KA9s ED,RD,NW3B,WT3Q)	9,851,358	5147	638	C
W1NG	97,776	774	147	C	W6BIP	151,803	303	167	C	N3RS (+N8s ED,RD,NW3B,WT3Q)	7,42,970</td			

EA1AK/EA8	87,840	610	48 B	40	JJ1NNJ	7,980	95	28 C	20	Portugal	CT1BWW	293,304	968	101 B	G0FDX (G0NEI,op)	58,266	234	83 B
EA8ZS	71,148	539	44 C	10	JE1LGY	288	12	B	20	CT1DVF	209,466	1293	54 C	10	SP2SCX/OE	63,828	394	54 C 15
Ceuta and Melilla					JA4PA	144	8	6	20						G4BUO	181,440	1260	48 C 10
EA9UK	215,748	1383	52 B	10	JI3BFC	48	4	4	A 20					G3UFY	90,687	703	43 C 10	
Ivory Coast					JA0BQB	30	5	2	B 20	Azores	CU2CE	39,516	356	37 C 160	Isle of Man	25,740	143	60 B
TU2CI	721,656	1542	156 B		JM1ZDE	27	3	3	B 20	CU2AK	141,912	876	54 C 40	G0DSL (K3RV,op)	22,572	132	57 B	
Burkina Faso					JH7AFR	255,090	1546	55 C	15	CU2AF	151,200	900	56 B 15	OE1BKA	5,481	63	29 B	
XT2BW	388,440	996	130 B		JR7OMD/2	102,024	654	52 B	15	Federal Republic of Germany	DL8PC	1,763,854	2722	216 C	OE1XTU (4N4JJ,op)	172,575	975	59 C 20
Zimbabwe					JH2BCN	100,806	634	53 C	15	DL3DBL	661,051	1469	150 C	OE1HQX	34,398	294	39 B 20	
Z21HS	1,887	37	17 C	40	JR8OGB	91,200	608	50 B	15	DL1EK	655,941	1573	139 C	OE2LCM	225,675	1275	59 C 15	
Ascension Island					JA3MOY	88,350	589	50 C	15	DA1WA	512,868	1082	158 C					
ZD8LII (G0LI,op)	516,309	2917	59 C	10	JE2NWN	29,430	218	45 B	15	DL7UTA	402,264	888	151 C	Northern Ireland	271,788	1562	58 C 15	
					7K2MPE	8,091	93	29 B	15	DL2DX	330,330	1001	110 C	GM0ECO	8,256	86	32 C 15	
JL1DRX	7,176				JK6ISK	5,658	82	23 B	15	DL8UCC	218,592	506	144 C	OH0NJ	19,800	220	30 C 10	
					JE1ELX	4,347	69	21	B 15	DL0KB (DJ7GS,op)	157,074	557	94 C	Aland Island				
Asia					JM1LAW	3,420	60	19 B	15	DL8SDC	80,178	322	83 B	OH0MAM	244,083	1379	59 C 20	
Israel					JA1CZO	2,346	46	17	B 15	DL9ZBG	69,372	282	82 B	OH1EH/OH0				
4X6FR	651,567	1349	161 B		JJ1NU1	1,833	47	12 B	15	DK6BT	47,586	206	77 B	GM0BRC	1,845,450	2734	225 C	
4X59PR	44,496	206	72 C		7M2KX1	1,476	41	12 B	15	DL1DRW	28,620	180	53 C	GS4TMS	121,659	379	107 C	
4X1VF	16,359	133	41 C		JK1NSR	1,440	32	15 B	15	DL8GCL	42,000	200	70 B	Wales				
Kuwait					JT0QED	1,176	28	14 B	15	DF3IS	28,014	203	46 C	GW4BLE	336,831	1903	59 C 20	
9K2ZZ	81,600	544	50 B	15	JT7GXE	1,155	35	11 B	15	DL8UVG	27,390	166	55 B	GW0RTA	1,848	44	14 B 20	
China					JA3BCT	1,023	31	11 B	15	DL4JYT	20,862	122	57 B	GW0ARK	183,918	1057	58 C 15	
BZ4DJW	228	19	4 B	15	JF3NDW	756	21	12 B	15	DL6DCM	18,753	133	47 B	OH6NM	314,175	1775	59 C 15	
Korea					JH3TXR	744	31	8 B	15	DF1QO	16,356	116	47 B	OH1AA (OH1JD,op)	262,137	1481	59 C 15	
HL9UH	7,134	82	29 B		JH9THA	690	23	10 B	15	DL2AWA	10,179	87	39 B	Hungary				
HL9AF (K8AAPP,op)	1,890	45	14 B	15	JH3TWR	690	23	10 B	15	DK5KJ	10,080	80	42 B	H5AGS	342,417	727	157 C	
Saudi Arabia					JT1RCB	450	25	6 B	15	DL1HSL	9,408	98	32 B	H5AMY	14,355	87	55 C	
HZ1AB	57,519	249	77 C		JA1XPU	420	20	7 B	15	DL6AMI	8,670	85	34 B	H6ANW	23,760	198	40 B 15	
7Z2AB (K2XR,op)	96,585	685	47 B	10	JA1HRB	357	17	7 B	15	DJ6DO	6,831	69	33 B	H7TRC	20,736	192	36 B 15	
Japan					JA1RKI	273	13	7 B	15	DJ6OO	2,109	37	19 B	HATTM	81,792	568	48 C 10	
JH7DNO	1,506,168	2202	228 C		JF1MRG	255	17	5 B	15	DL5ANS	120	8	5 A	HACQ	4,347	63	23 B 10	
JA8BWW1	1,326,780	2106	210 C		JM6EBU	135	9	5 B	15	DL5XU	35,187	317	37 C 80	Czech Republic				
JA2WHS	108	6	6 B	15	JH2WHS	108	6	6 B	15	DL3LAB	28,188	261	36 C 80	OK2FD	820,512	1554	176 C	
7K1CFN	63	7	3 A	15	JK1CNF	63	7	3 A	15	DK2YE	180	10	6 B 40	OK1KT	96,030	330	97 B	
JM1PJX	60	5	4 B	15	JT6ESY	54	6	3 B	15	DL4MCF	320,370	1810	59 C 15	OK1DXW	52,437	227	77 B	
JL1YFD	45	5	3 B	15	JA1SGX	88,290	654	45 B	10	DL9AWI	102,708	634	54 C 15	OK2BJT	39,168	204	64 C	
JA1MVO	27	3	3 B	15	JH3LCU/1	62,436	473	44 B	10	DL6FCB	11,484	116	33 C 15	OK1BLC	37,989	201	63 B	
J01MC	12	2	2 B	15	JA2JNA	43,911	357	41 C	10	DL2SBY	6,264	72	29 B	OK1DKS	36,984	184	67 A	
JM1EGG	159,789	1087	49 B	10	JE2LPC	14,580	135	38 B	10	DJ0BX	4,500	50	30 C 15	OK2BAT	12,051	103	39 A	
JH2WHS	108	6	6 B	15	JF1EGG	11,040	160	23 B	10	DL1HSL	462	14	11 B	OK2SWD	11,484	87	44 B	
JH4XW	9,144	127	24 B	10	JH4XXW	10,962	174	21 B	10	DL3HJ	65,403	507	43 C 10	OK1ALW	37,674	322	39 C 80	
JF1SEK	96,255	713	45 B	10	JT1VTK	9,144	127	24 B	10	DK4JTH	14,070	134	35 B	OL3A (OK2PZW,op)				
JR3NCZ	558,747	1267	147 B		JF3EIL	8,883	141	21 A	10	DL6KY	20,722	66	14 B	Switzerland				
JR1GSE	46,424	1046	148 C		JM4ETH	2,142	51	14 B	10	DK4UTP/1	94,668	144	19 B	HB9AAA	488,694	1031	158 C	
JA5ONK	415,290	1090	127 C		JF3FZ1	2,142	51	14 B	10	DK5ZP	20,784	684	132 C	HB9DX	17,097	139	41 C 15	
JA7BEW	341,112	932	122 C		JF3FZ1	2,142	51	14 B	10	DK5RS	27,864	684	132 C	HB9KC	8,181	101	27 C 10	
JA2AXB	238,140	756	105 C		JF3FZ1	2,142	51	14 B	10	DK5RY	30,230	261	36 C 80	Italy				
JH1UU1	155,394	582	89 B		JF3FZ1	2,142	51	14 B	10	DK6BL	30,627	919	111 B	HB9AA	306,027	919	111 B	
JA5JCC	144,801	519	93 C		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JA6BIF	142,500	475	100 C		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JL1MW1	106,476	467	76 B		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JH8KYU/1	88,800	406	74 B		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JK1BVM	68,562	293	78 B		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JA1BU1	67,176	311	72 B		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JH6FTJ	63,180	324	65 B		JF3FZ1	2,142	51	14 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JH8DHV	54,873	273	67 B		JH1BUB	1,188	36	11 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JA0ONJ	54,471	271	67 C		J01TLP	1,080	36	10 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JE7DOT	38,880	240	54 B		JA1IAH	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JH1BDS	34,008	218	52 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JA1P JL	6,642	89	26 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JG1RDV	6,510	70	31 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J71ABD	6,336	68	32 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JG9GHC	6,240	65	32 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J71AMM	5,184	64	27 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JA1STY	3,105	45	23 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
JQ3QOS	2,916	54	18 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J3MPX	2,880	60	16 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J4BWH	2,880	60	16 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J43JOT	2,475	55	16 B		JA2JNA	504	24	7 B	10	DK6BL	1,376,949	2261	203 C	HB9AA	1,376,949	2261	203 C	
J4ADHN	2,112	44	16 B		JA2JNA	50												

SM6MVL	21,147	133	53 C
SM0FM	2,268	42	18 B
SM6LIF	1,170	26	15 B
SM0DZH	162	9	6 C 40
SM4POB	1,584	33	16 B 20
SK4IL	966	23	14 B 15
SM7INY	561	17	11 B 15
Poland			
SP9LJD	486,066	1141	142 C
SP6YAQ	310,481	761	136 C
SP1EOI	75,225	295	85 B
SP6NIC	68,370	265	86 B
SP8ARY	38,148	187	68 B
SP7LZD	21,528	156	46 A
SP6YFU	17,787	121	49 B
SP3KVE	13,950	155	30 B
SP9MOH	11,100	100	37 B
SP7GAQ	10,212	74	46 B
SP6SOX	6,231	67	31 B
SP2AHD	3,876	68	19 B
SP7LHX	2,376	33	24 B
SP9CLO	1,980	33	20 B
SP4SHD	1,911	49	13 B 20
SP5LGN	1,092	28	13 B 20
SP3PMA (SP3OCQ,op)	81,291	553	49 B 15
SP3KEY	34,272	272	42 B 15
SP9RVD	18,240	152	40 B 15
SP4PBI	5,148	66	26 B 15
SP3KPN	1,530	34	15 B 15
SP8OON	756	21	12 B 15
SP7FQI	450	15	10 B 15
SP3UIW	330	11	10 A 15
SP5CEQ	324	12	9 B 15
SP2BUC	6,864	88	26 B 10
SP1AEN	6,630	85	26 B 10
Greece			
SV1SV (SV1BDO,op)	13,770	102	45 B
SV2BNF	4,428	82	18 B 20
Kaliningrad			
UA2FFD	5,130	57	30 B 15
European Russian RSFSR			
UW1ZU	77,280	322	80 C
UZ4WWF (UA4WI,op)	142,272	832	57 C 20
RV3DDZ	1,566	29	18 C 20
RZ6LG	45,288	296	51 B 15
RA3QR	26,586	211	42 C 15
UV3DRU	4,992	64	26 B 15
RA4PO	5,280	110	16 C 10
Ukraine			
UT5UGR	7,524	66	38 B
RB5QW	2,457	39	21 C
UT4JLM	2,214	41	18 B
RB5TBS	1,584	33	16 B
RB5DX	9,525	127	25 C 80
UB5UT	9,438	121	26 C 80
RB4II	36	4	3 C 80
UR5CDX	9,801	121	27 C 40
RB5QRW	336	14	8 B 40
UB5EDU	113,100	725	52 C 20
UB3JWW (UB2JZ,op)	175,053	989	59 C 15
UT4LUZ	121,632	724	56 C 15
RB4IRO	63,750	425	50 C 15
UB5QMA	31,476	244	43 B 15
UB5RCW	5,292	63	28 B 15
UY7E (UB5EC,op)	56,499	505	37 C 10
USSI (RB5IM,op)	32,724	303	36 B 10
Belarus			
UC1WWR	28,620	180	53 B
UC2LB	4,176	87	16 C 80
UC2LR	16,533	167	33 C 20
Moldavia			
UO4OF	31,800	212	50 B
UO5IV	2,679	47	19 B 15
Latvia			
YL2SM	75,168	348	72 B
YL2GVW	2,448	48	17 B 10
Romania			
Y07AEW	15,720	131	40 B
YRF6 (Y06DF,op)	9,126	78	39 B
Y09AHX	2,280	40	19 B 15
Y06KEA (Y06AWF,op)	66,420	540	41 B 10
Y04FYQ	6,096	127	16 B 10
Yugoslavia			
YU7AV	1,461,495	2245	217 C
4N9A	32,832	288	38 C 80
YT7A (YT7GM,op)	287,280	1596	60 C 15
YU7KM	14,178	139	34 B 15
4NSJA	81,426	662	41 B 10
YU7SF	1,404	36	13 C 10
Gibraltar			
ZB2JL	758,250	1685	150 B
North America			
Martinique			
TOSM (FM5CD,op)	2,741,370	3335	274 C
FM5DN	1,380,288	2528	182 C
Haiti			
HH2PK	5,026,194	5422	309 C
Dominican Republic			
HI8JPJ	78,561	609	43 C 10
Panama			
HP1COO	60,582	439	46 B 10
Grenada			
J37K (W8KKF,op)	3,817,011	5029	253 C
Dominica			
J76EK (N6EK,op)	5,010,670	5662	295 C
J73WA	980,562	1969	166 B
Alaska			
AL7CQ	1,802,706	2917	206 C
KL7FAP	61,992	287	72 B
AL7MX	8,928	96	31 C 160
Virgin Islands			
VE4GV/KP2	486,036	1174	138 B
Puerto Rico			
WBHNI/KP4	1,174,800	1780	220 B
KP4/NDX	313,443	741	141 B
WP4WD	509,580	2980	57 B 10
Netherland Antilles			
PJ9JT (W1BH,op)	341,040	1960	58 C 10
Costa Rica			
TEST (T1S4U,op)	111,780	690	54 B 10
Anguilla			
VP2EE/WB9HRO	979,017	1931	169 B
VP2EE	133,650	810	55 B 10
British Virgin Islands			
VP2VHD (W3FPO,op)	374,616	726	172 B
VP2VF	464,094	2714	57 C 10
Mexico			
XE1AA6RX	171,936	597	96 B
XE2VOP	96,558	418	77 B
XE2OEM	94,320	393	80 B
XE1MK	93,969	591	53 C 40
El Salvador			
YS/WD4FN41,6001472	100 B		
Cayman Islands			
ZF2ND	365,859	2067	59 C 40
Oceania			
Philippines			
DUTAFT	432	24	6 B 15
DU9AXJ	116,100	860	45 B 10
Guam			
KH4DG/KH2	3,870	43	30 B
Hawaiian Islands			
KH6/WGR	5,329,242	5534	321 C
K7SS/KH6	1,885,356	2484	253 A
KH6NO	92,697	583	53 C 40
KH6FKG	222,471	1301	57 C 20
KH6GMP	10,791	109	33 B 15
AH4IM	244,992	1408	58 B 10
Papua New Guinea			
P29DX	182,589	503	121 C
Federal States of Micronesia			
V63OM	20,178	177	38 C 20
Marshall Islands			
V7A (V73C,op)	2,016,333	3069	219 A
Australia			
VK5GN	918,450	1570	195 C
VK3DZM	12,342	121	34 C 80
VK3EW	123,090	746	55 C 40
VK2VM	3,366	51	22 B 40
VK2GAH	79,713	521	51 C 10
VK6BEE	5,538	71	26 B 10
Pitcairn I			
VR6JJ	101,250	675	50 C 10
Indonesia			
YB3OSE	92,664	351	88 B
YB1ARW	35,616	224	53 B
YC7BVY	3,762	66	19 B 15
New Zealand			
ZL4NF	471,006	1146	137 C
ZL2AH	48,675	275	59 C
South America			
E7M	1,913,904	4888	286 C
E7M	(E17BZ,E17DB,E18GS,ops)		
E7M	2,435,955	3235	251 C
SN3A (SP3s GEM,RBI,RBR,ops)	2,107,350	3150	223 C
OL1A (OK1DFP,DIX,DWX,FCW,FI,FOA,OK2BFN,ops)	2,026,332	2924	231 C
HB9AUAS (+HB9s CXZ,SFD,STL)	2,006,883	2799	239 C
II5NA (I5s JHW,NSR,NXH,OY,XX,FW,K5s JAN,MES,NAW,NLA,PWC,RUN,ops)	1,671,300	2476	225 C
G0SDX (G3s LNS,MXH,XZO,G0s CDO,TRI,MRH,REP,ops)	1,569,048	2444	214 C
Europe			
HC1OT	443,700	2550	58 B 15
Galapagos Islands			
HC8A (N6KT,op)	10,114,020	10470	322 C
Colombia			
HK4OTF	192,024	1143	56 B 20
Argentina			
LU2NI	1,156,194	2379	162 B
LU6FDZ	456,000	1000	152 C
LU7FEU	233,856	696	112 B
LU8DY	213,570	791	90 B
LU6ETB	523,212	2956	59 C 10
LU2OC	270,351	1581	57 C 10
LU6EJP	218,709	1279	57 C 10
LU3HIP	199,248	1186	56 B 10
Ecuador			
HC1OT	443,700	2550	58 B 15
OM3KFF (OM3s TLU,TPG,TPW,TUL,TYQ,ops)			
OH5NQ (+OH1IWZ,OH6EI)	1,434,000	2390	200 C
OM4KMF (+I4s DYZ,FYF,IFL,MNY,IK4s FAL,HVR,MXW,IW4DCDT)	1,260,480	2080	202 C
OM3KAG (OM3s CGN,DCN,TRU,WDX,ZFM,K1JCQ,ops)	1,060,884	1881	188 C
FF1PBT (F11FP,FD1PEP,PY1,SIH,ops)	1,056,528	2001	176 C
IK4MF (I4s DYZ,FYF,IFL,MNY,IK4s FAL,HVR,MXW,IW4DCDT)	1,035,831	1789	193 C
ED3RKG (EA3s BOW,BOX,DGQ,IE1,ops)	779,625	1575	166 B
US71 (RB5IP,UB3IO,UB5IKW,ops)	729,810	1530	159 C
DL0CMA (DG1GJ,DL1EDB,ETT,DL3KDQ,ops)	713,736	1293	184 C
DL0GK (DL1DCL,DL2DBS,WF,DH4ZK,DG6DDC,DF8QB,DH8YAQ,DC9KZ,ops)	672,807	1637	137 C
UZ3DXW (+ops)	672,000	600	115 C
EA3IN (+EA3s CCI,DMN,GGG,EC3CVU)	645,474	1202	179 C
OH4JK (+OH4s LTK,ML,YCZ,CD,ops)	618,183	1599	129 C
R6Y (RA6AX,RW6YY,U6A-1029,ops)	443,025	895	165 C
UZ1OWZ (UA1s 113-244,113-619,113-661,ops)	76,551	323	79 C
EA3IW (EA3GGO,EC3s CTU,CVD)	340,920	545	128 C
SK7BV (SM7s AIO,GXE,SEA,TWW,ops)	207,000	600	115 C
DK3YD (+DL5MFH,ops)	76,551	323	79 C
LY1BZB (LY1s FF,FR,LY1ZB,LY2BKF,ops)	57,912	254	76 C
GX6OI (G4s BEOM,XOM,G7s HEZ,JY2,G0RKO,ops)	56,808	263	72 B
UT4UXW (UB5DX,KB2PB,UB2PB,ops)	10,998	94	38 B
OH5AT (OH3s DC,FB,NB,ops)	7,047	81	29 C
UZ1AWO (UA1s 169-900,169-2391,ops)	6,633	67	33 C
Single Operator Assisted			
Asia			
UA9LP	55,272	392	47 C
JQ1NGT	49,887	241	69 B
JR4GPA	25,800	215	40 B
JAT7UR	20,043	131	51 B
Europe			
DJ1XT	244,080	720	113 C
IK4DCT	43,740	324	45 C
North America			
NP21	3,334,500	4500	247 B
TG9AJR	2,108,106	3003	234 B
XB21 (XE2FIN,ops)	340,362	2101	54 B
South America			
PY0FM (PY5CC,op)	7,896,600	8025	328 C
VP5W (W5MVG,KC0ZC,WA0PU,ops)	7,081,452	6902	342 C
XH9Z (XH2Z,BI,ZG,LY40W,ops)	5,709,888	6896	276 C
XA5T (+ops)	4,038,639	4301	313 C
HIBOMA (+ops)	2,031,423	2983	227 B
WL7E (+NL7GP)	1,930,500	2475	260 C
KL7TG (+KL5LSM,NIV,NL7RE)	794,409	1463	181 B
WA1C/LK7 (+N1HJ,KD6SIK)	32,574	178	61 B
AL7E (+N7QAV)	22,785	155	49 B
Oceania			
ZL2NX (ZL2s BI,IO,LY40W,ops)	1,126,488	2008	187 B
VK1DX (VK1s PJ,ST,VK2s ILK,IVK,ops)	661,878	1442	153 C
South America			
LU1VV (+LU1VK,LU4VZ,LU5VC,ops)	3,350,985	4415	253 C
LU4HH (LU3s HAK,HEU,LQ4s HKN,HLF,LU9HIG,ops)	1,553,256	2754	188 C
PW2N (PY2s AFR,EMT,NY,ops)	63,246	254	83 B
Two Transmitter			
Africa			
EA9IE (+EA9AM,EA7JB)	962,160	2110	152 B
Asia			
JAT7AA (JF1CKJ,JE7JZC,JG7PSJ,JE0AWL,ops)	1,677,690	2663	210 C
JA1YKX (JH1QHK,JL1STM,JN1ATL,JQ1NVM,ops)	739,035	1493	165 C
J2AYAF (JA2JAO,JE2LCC,JZ2RFS,JK2VOC,JI2ONQ,JN2s	1,026,332	2924	231 C
AI1YQ,ZQ,JZ2XB,JZ2NC,KJ4BKK,J3VE,XJ6,WA1EHK,WA1EQU,WA2RUA,WB8CKV,WM9M,WW2X and YT1MM	1,126,488	2008	187 B