

2003 ARRL International DX CW Contest Results

Preparation and planning are the keys to every successful ARRL DX CW contest operation, whether it takes place from inside W/VE or from a DX location. Noncontesters can't appreciate the amount of effort that goes into the typical all-out contest effort, regardless of the class of entry of the participating station.

It can be as simple as keeping up maintenance on a home station or as complicated as figuring out flight schedules and coordinating with a distant host to assess equipment needs prior to a boom or bust weekend on the bands from a location far from home.

Goals vary. Many of us compete with ourselves. Others are jazzed by the mental challenge of "decoding" a contest. Others are pushed by ego or will to compete against the best of the best on equal terms. The vast majority of contest participants aren't planning on "winning" anything—only enjoying a few hours on the bands seeking out more contacts or the sheer pleasure of doing it.

Perseverance, long term, is the key to success in contesting. Rare is the contest operator who appears out of nowhere to make a category top 10 as a first time contest entrant. Many top 10 visitors are familiar call signs, and they have become familiar for no other reason than year after year they're on the air making contacts and soaking up knowledge that will be useful for future contest ventures. Accumulated knowledge leads to better results—and as years pass and entrants rotate in and out of serious contesting, the knowledgeable and committed rise to the top and new call signs appear in the top 10 boxes to start yet another cycle.

The W/VE single op all band unassisted QRP, Low Power, and High Power categories all featured decisive victories by the three winners, a new Canadian record for Low Power set by VE3EJ and a near miss by NT1N at KT1V to break the High Power single operator record. Dave will happily settle for both his victory and the #2 all-time highest score in the category.

From the DX side, the QRP single operator record was broken by FY5KE



The PJ2T team for the 2003 ARRL International DX CW contest included W0NB, WA9S, W0CG (kneeling), W8TK, and W9EFL.

Expanded Results, Line Score Printouts Available

For complete contest results online, please visit www.arrl.org/contests/results. ARRL members without Internet access may obtain a printout of the complete line scores by sending a self-addressed stamped envelope to ARRL Contest Results, 225 Main St, Newington, CT 06111. Please be sure to include the contest name and year.

(F5MZN, op). V26G took it down to the wire for a victory and also squeezed by the log checking process to set the new DX Single Op, Assisted category score record. We saw an extremely close race in the High Power category where ultimately WP3R (K9PG, op) prevailed over two other battle-seasoned contest operators.

Generally, scores were lower in most categories than in the last three runnings of ARRL DX CW. In the three W/VE multioperator categories, a good indicator of overall activity, scores were down some 20% over 2002. With the continued decline in the sunspots, the trend will likely continue for the next several years. There are always surprises to be had during those solar minimums, however, and

plenty of time to be planning for the upswing in sunspots late in the decade. Start building that 10 meter "elephant gun" monobander stack—now!

W/VE QRP

Long term perseverance paid off in the QRP category with the awarding of the Tod Olson, K0TO plaque to QRP winner George Briggs, K2DM. George finished 2nd in the QRP category in 2000, 2001 and 2002. Operating 41 hours total, George had a QRP top-10 best 0.2% error rate for a line score of 1117 QSOs/305 mults for a point total of just over 1 million.

As usual, the QRP top 10 was spread over a geographically diverse area with top 10 finishers from 7 different US call areas. The southeast was well represented with perennial QRP entrant Tom Russell, N4KG, operating his fine monobander-equipped Alabama station to a second place finish at 773,388 points.

Dale Martin, KG5U, of Houston, Texas comments, "I must have sent my call a million times in this contest," and finished third with 481,425. Fourth place went to Arizona's Gary Hembree, N7IR, with a score of 374,472.

2003 Kansas City DX Club Dayton CW pileup champion Doug Smith, W9WI, finished fifth from Tennessee with a score of 371,280.

Rounding out the top 10 were W6JTI (SF), N1TM (CT), K3AJ (MDC), WB3BEL (VA) and NU4B (TN).

W/VE Low Power

This year's W/VE low power winner is three-time WRTC competitor and Ontario resident John Sluymmer, VE3EJ. John's line score of 2700/400=2,484,000 was both a victory in the low power category and a new Canadian record.

Positions 2 through 10 for the low power top 10 were a toss-up, with only some 400,000 points separating the remaining 9 slots. Very competitive, to say the least. It was Ed Sawyer, N1UR (VT) finishing second with 1810/349 for just under 1.9 million points in the self-described "little pistol" category. Ed ran

Top Ten—US CW

US CW Single

Operator High Power

KT1V	6,226,974
(NT1N, op)	
KQ2M	5,675,454
VY2ZM	5,490,114
(K1ZM, op)	
K1TO	5,480,952
K5ZD	5,458,815
(W4PA, op)	
N2NT	4,914,630
AA1K	4,461,795
K3ZO	4,357,794
K2UA	4,212,600
VY2TT	4,043,034
(K6LA, op)	

US CW Single Operator

Low Power

VE3EJ	2,484,000
N1UR	1,895,070
W3EF	1,844,814
K2PS	1,749,150
KK9A	1,653,900
(@ W6YX)	
W1WAI	1,621,224
N5AW	1,618,875
W2TZ	1,585,503
WJ9B	1,498,941
N4TZ	1,430,244

US CW Single Operator

QRP

K2DM	1,022,055
N4KG	773,388
KG5U	481,425
K3TW	433,497
K2JT	376,650
N7IR	374,742
W9WI	371,280
W6JTI	358,545
N1TM	326,151
K3AJ	319,872

US CW 10

W4ZV	442,734
K5RX	310,086
K1XX	298,494
N4AO	231,264
WB4TDH	193,776
W9XT	114,144
K9OM	108,780
WR3L	91,530
K9HUY	86,526
K6EID	82,476

US CW 15

W4KZ	472,548
(K4BAI, op @ NQ4I)	
KR2Q	416,988
K4OAO	392,337
N6IG	273,537
KV0Q	267,138
K2BA	238,545
W7UT	227,850
N8BJQ	203,820
WX5S	182,250
(@ W6YX)	
KA6A	157,080

US CW 20

N2MF	505,080
N8II	386,484
K9NW	364,704
W7WA	322,296
NQ4I	312,480
VE6EX	108,480
(@ VE6JY)	
VE1AYY	87,129
KA7T	74,337
WA1FCN	73,485
K9CAN	71,910

US CW 40

N4PN	307,098
W5UN	244,125
N2WW	152,490

K2UOP	130,005
K4TX	117,234
W3PP	86,592
K0FX	77,787
W9SE	51,984
KT8X	43,362
W4IDX	42,411

US CW 80

W1MK	198,198
KU8E (@NQ4J)	83,808
K4DLJ	45,738
K8AQM	31,680
W8QID	28,728
VE3PN	26,847
VO1TA	20,412
K4ESE	18,921
K6OY	18,270
K8MD	15,066

US CW 160

K4TEA	8,442
K3JJG	7,257
W3GH	4,488
W2VO	3,828
W8TOP	3,330
(W8UVZ, op)	
K6SE	1,176
N4PSE	960
VE7SL	546
W7DRA	252
K7UIR	156

US CW Single Operator

Assisted

W2UP	5,636,958
K3WW	5,513,832
K1G	4,510,584
AA3B	3,898,500
N1EU	3,841,830
W2GD	3,250,944
K2XA	3,242,160
K4MA	3,178,140

W3FV	2,882,064
W4NF	2,803,086

US CW Multioperator

Single Transmitter

K8AZ	4,511,910
K1IR	4,184,544
WT1T	3,561,345
K5TR	3,455,910
K4NNN	3,143,640
W8AV	3,121,092
N0NI	2,767,770
W2MU	2,281,554
K9ES	2,267,190
WN9O	2,065,140

US CW Multioperator

Two Transmitters

K4JA	9,566,580
N3RS	9,527,637
K1KI	8,781,804
N4RV	6,399,000
K8CC	5,267,520
K0TV	5,105,232
K8LX	4,947,000
VE1JF	4,192,260
K6KM	3,269,370
W6OAT	1,999,404

US CW Multioperator

Unlimited Transmitters

KC1XX	13,784,511
W3LPL	12,682,272
K1XM	12,288,051
K1TTT	9,703,470
K1RX	9,458,010
W4MYA	8,889,030
K9NS	8,879,544
N2RM	7,709,394
KB1H	6,605,016
K5GO	6,362,874

K2UA (WNY) 4,212,600 and VY2TT (K6LA, op, PEI) at 4,034,034.

Tied for the best error accuracy rate with KT1V (NT1N) at 0.2% was 8th place finisher Fred Laun, K3ZO.

W/VE Single Op, Assisted

Eastern Pennsylvania stations took the top 2 spots for the single operator, assisted category in 2003. Coming in #1 was Barry Kutner, W2UP with a line score of 3743/502 for 5,636,958 points and his first single op, assisted category victory.

Perennial assisted contender Charles Fulp, K3WW finished a close second with 3618/508 for 5,513,832. Chas' multiplier count of 508 was tops among all single operator entrants. Since the introduction of the assisted category in 14 years ago, Chas has finished either #1 or #2 every year except 1992, with wins in 1993, 1994, 1999, and 2002.

In third place was 5-time assisted category winner Rick Davenport, KI1G (RI) with 4,510,584 points. The top 5 were rounded out by Bud Trench, AA3B (EPA) at 3,898,500 and Barry Gross, N1EU (ENY) with 3,841,830.

Name the only operator in radio contesting history to have won the single op unassisted high power category from the DX side for both modes of the ARRL DX and CQ WW contests? You'd have 6th place finisher and CQ Contest Hall of Famer John Crovelli, W2GD (alter ego P4ØW) operating assisted from the domestic side this time for a score of 3,250,944 from Northern New Jersey. The rest of the category Top Ten is inhabited by K2XA (ENY), K4MA (NC), W3FV (EPA), and W4NF (VA).

W/VE Single Band

Bill Tippett, W4ZV (NC) made it a "two-fer" with his second consecutive victory in the W/VE single band 10 meter category, working 1306 QSOs and 113 countries for total score of 442,734

On 15 meters, John Laney, K4BAI, operating as W4KZ at the contest superstation of NQ4I, took home the win with 1486/106 for 472,548. Finishing a close second was Doug Zwiebel, KR2Q (NNJ), with 1404/99 for 416,988.

Moving up a band after winning the 15 meter category in 2002 was Brian Edward, N2MF (WNY), who handily won the 20 meter single band trophy with a line score of 1464/115 for 505,080 points. Jeff Hartley, N8II (WV), was second with 386,484 and Mike Tessmer, K9NW (IN), was third at 364,704.

Forty meters featured last year's second place finisher Paul Newberry, N4PN (NFL), moving up a notch to take first prize at 1034/99 for 307,098 points. VHF moonbounce guru David Blaschke,

100 W to "Field Day-style" ladder mounted, rope-guyed 10 and 15 meter beams at 25 feet up, a 20 meter delta loop, 2 el, 40 m beam at 40 feet, With dipoles on 80 and 160 meters he was able to squeeze by the rest of the pack for a second place finish.

We were sorry to note that 6th place finisher David Allen, W1WAI (EMA), a well liked member of the Yankee Clipper Contest Club, became a silent key in May 2003.

The high finisher from west of the Mississippi was N5AW (STX) who finished 7th overall with a line score of 1439 QSOs and 375 multipliers for 1,618,875 points. Others making an appearance in the Top Ten were W3EF (MDC), K2PS (SNJ), KK9A (IL), W2TZ (WNY), WJ9B (NC) and N4TZ (IN).

W/VE High Power

Magic numbers abound in ham radio. "100" for DXCC and VUCC. "40" for the CQ Worked All Zones award. "3076" for the USA-CA county award. For the ARRL DX CW single op category, the magic number in recent years has been "6,000,000." The W/VE single op high power winner for 2003 is Dave Patton, NT1N, who operated from and as KT1V in New Hampshire. Dave's score of 6,226,974 is the second highest ever recorded in the category, and represents only the 4th time a score of 6,000,000 or greater has been recorded by a single op, high power entrant—and the

first unassisted single op to break 500 countries on CW (507). Dave was aggressively moving multipliers from band to band and ended up finishing only one counter behind the top packet-assisted multiplier hunter for mult total. The top 5 finishers had a "low" of 3902 QSOs (VY2ZM) to a "high" of KT1V's 4094. Dave was able to outdistance the pack by virtue of his excellent QSO error percentage of 0.2% and nonstop multiplier hunting.

Second place finisher is 2001 single op high power winner Bob Shohet, KQ2M (CT) with a line score of 4086/463 for 5,675,454.

After Bob's second place finish there was a horseshoe for the next three spots, with only 31,000 points separating positions 3 through 5. In third place was VY2ZM (MAR) operated by Jeff Briggs, K1ZM, at 3902/469 for 5,490,114. 2003 CQ Contest Hall of Fame entrant and three time WRTC co-champion Dan Street, K1TO had the top high power score from outside the Northeast, finishing #4 from West Central Florida with a superb line score of 4042/452 for 5,480,952. At the bottom end of the top 5 was 2002 high power winner Scott Robbins, W4PA, operating from K5ZD (WMA) with a line score of 4089/445 for 5,458,815 points.

Rounding out positions 6 through 10 were N2NT (NNJ) at 4,914,630, AA1K (DE) 4,461,795, K3ZO (MDC) 4,357,794,



DX Single Operator High Power winner Paul, K9PG, who was the op at WP3R.

W5UN, went for the longer waves this time to take 2nd place from his Texas QTH with a score of 244,125.

Perennial 80 meter victor Robye Lahlum, W1MK (EMA), kept his 80 meter single band streak alive with his 10th consecutive win in the category with a score of 198,198. Second place went to Jeff Clarke, KU8E (GA), also operating from the NQ4I station and finishing with a total score of 83,808.

Competition was light in the W/VE 160 meter single band category, with winner K4TEA (GA) making 67 contacts with 42 counters for a total score of 8442. Second place 160 meter finisher was K3JJG (EPA) with 7257 points.

W/VE Multi-Op Categories

Also scoring a “two-fer” in the W/VE Multioperator Single Transmitter category were a group from the North Coast Contesters, who operated K8AZ (OH) to a second consecutive win in the Multi-Single category. Two Yankee Clipper Contest Club teams both operating from eastern Massachusetts filled the next two slots with K1IR at 4,184,544 in 2nd place and WT1T at 3,561,345 third. The K5TR team in south Texas made an excellent effort to finish 4th with 3,455,910 points.

The extremely competitive Multioperator Two Transmitter category featured the closest finish of the 2003 contest, with the Virginia team at K4JA edging Pennsylvania’s N3RS by 9,566,580 to 9,527,637. K4JA was 99 contacts off the lead but was able to make up the difference with 12 extra multipliers to take the victory. K1KI in Connecticut was a close third with 8,781,804.

The Multioperator Multitransmitter category featured a close race among three battle-seasoned contest teams. It was KC1XX in New Hampshire taking victory over Maryland’s W3LPL and the K1XM crew operating from W1KM’s QTH in eastern Massachusetts—13,784,511 to

12,682,272 to 12,288,051.

DX High Power

Puerto Rico...Palm trees...Lawn chairs in the sun...Clear skies...Beautiful beachfront hotels...It even smells like “vacation” from a distance. On the other hand, one could always go to Puerto Rico and stay awake for 48 straight hours, not go outside, sleep on the floor of a half-finished building and rent a car for four days that you don’t drive anywhere. Who else but a committed radio contester would subject himself to this?

Society of Midwest Contesters President Paul Gentry, K9PG, journeyed from Illinois to the WP3R club station in Puerto Rico to do exactly that and was rewarded with the Frankford Radio Club DX High Power plaque. Paul’s line score of 5375 QSOs and 343 multipliers was good for 5,530,875 points and a first place finish. This is Paul’s first High Power victory in ARRL DX CW; he was the CW low power winner in 1996 operating FS5PL from French St Martin. Congratulations!

Coming up right behind WP3R in a close race to the finish were Jim Neiger, N6TJ, operating from Aruba as P40T, and Alexander Teimurazov, 4L5A, who operated D4B from the Cape Verde Islands off the west coast of Africa. P40T and D4B both had score totals in the mid-5 million range but Paul just squeaked past them for the victory. All of the top 3 finishers were in essentially a dead heat for QSO total and multipliers with WP3R at 5375/343, P40T at 5353/339 and D4B at 5345/328. Small margins can make the difference!

High score from Oceania was our 2002 winner Mike Gibson, KH6ND, who operated KH7X to a 6th place High Power finish with a 4938 QSO, 325 multiplier effort for 4,814,550 points.

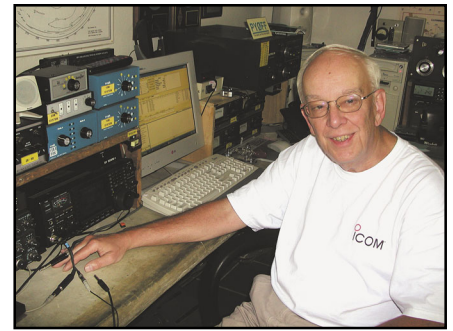
Top European finisher was Jacques Saget, F6BEE, who finished just outside the top 10 with a score of 2,754,360.

DX Low Power

Puerto Rico...Palm trees...Lawn chairs...Wait a minute. I think we’ve already discussed this!

As WP3R was streaking to victory in the High Power category, another contender on the same island was dit-dahing his way to the win at the 100-W level. It was Barney Bandrack, DK8ZB, operating KP4KE to take the Dauberville DX Association Low Power plaque. His line score of 4309 QSOs and 328 multipliers for 4,240,056 was a decisive victory, his first DX Low Power win, and was within striking distance of the Low Power single op record of 4,542,060 set by 6V6U (K3IPK, op) in 1995.

Naturally, the Caribbean is a favorite spot for expeditioners to target for ARRL DX CW, and it comes as no surprise that



Bill, W9VA, took another trip to PYØFF and pulled in a victory in the DX Single Band 10 Meter category.

the next three finishers also picked islands to operate from. Bill Vanderheide, N7OU, ventured to the Isle of Hispanola to operate N7OU/HI9 from the Dominican Republic to a second place Low Power finish with a total of 4034/268 for 3,243,336 points. Kurt Pauer, W6PH operated from Bermuda as VP9/W6PH to finish third with 3427/304 for 3,125,424. St Maarten was the site of Ronald St Laurent’s 4th place operation as PJ7/ND5S, with a line score of 2856/296 for 2,536,128 points.

Low Power continental leaders outside of North America were OA4DKC for South America (who also finished 5th overall in the Low Power category), F6EYB for Europe (10th place overall), VK5GN for Oceania, JH4UYB in Asia, and EA8CN for Africa.

DX QRP

Olivier Le Cam, F5MZN, operating FY5KE from French Guiana is our 2003 winner in the DX QRP category. His line score of 2658/245 for 1,953,630 bests the previous DX QRP category record of 1.79 million set in 1998 by VP9ID (AJ2U, op). Olivier took advantage of the somewhat disturbed high band conditions during the contest to make nearly 1000 contacts on 10 meters to come in for a runaway victory and the new benchmark.

Finishing second, operating from Hungary was Gyorgy Kasper, HA1CW, with 823/172 for 424,668 points. High North American DX QRP score was from (take a guess?) Puerto Rico, with WP4JXD finishing at 191,391 to take 5th place overall.

Aside from FY5KE and WP4JXD, Europeans filled out the remaining 8 spots in the top 10, with HA1CW, I1BAY, G0DCK, HB9BMY, I3BBK, DL3KVR, ON6NL and I0ZUT all making the box. Top Asian operator was Japan’s JR4DAH at 112,716 and top Oceania QRP score was submitted from the Philippines by N7ET/DU7 at 23,244.

DX Single Op, Assisted

Not even close is the only way to describe the DX Single Op, Assisted category

Top Ten—DX CW

DX CW Single Operator High Power	ON6NL LZ2RS	158,400 139,536
WP3R (K9PG, op)	DX CW 10 PY0FF (W9VA, op)	338,247
P40T (N6TJ, op)	PT5T	329,730
D4B (4L5A, op)	PY3DX	321,786
P40Y (AE6Y, op)	LU1FAM	290,103
TG0AA (K7BV, op)	LT5F (LU4FPZ, op)	287,802
KH7X (KH6ND, op @ KH7R)	LQ7D	209,670
V31DJ (W0CP, op)	(LW9DA, op)	
EA8BH (N7NG, op)	M7M	186,450
FM5BH (AJ6V, op)	(G0CKP, op)	
6Y0T (K3TEJ, op)	LW9EOC	173,826
V47KP (W2OX, op)	LU3HIP	173,565
DX CW Single Operator Low Power	LU8DW	172,086
KP4KE (DK8ZB, op)	DX CW 15 XT2WP (G4BWP, op)	440,376
N7OU/HI9	ZF1A	358,956
VP9/W6PH	(W5ASP, op)	
PJ7/ND5S	M5X (G4TSH, op)	246,036
OA4DKC	CX7BY	232,638
P4/K2LE	M0TTT	229,038
VP9/K9CC	IR4T	224,967
LU5FF	PY2KN (PY1KN, op)	201,609
F6EYB	F5IN	198,012
VK5GN	YU1ZZ	191,922
DX CW Single Operator QRP	9A5Y (9A3NM, op)	189,312
FY5KE (F5MZN, op)	DX CW 20 IU9S (IT9BLB, op)	262,218
HA1CW	9G5ZZ (DL1CW, op)	260,130
HBAY	GM3POI	241,605
G0DCK	EI4BZ	209,922
WP4JXD	7S2E	192,444
HB9BMY	(SM2DMU, op)	
I3BBK	G4BUO	179,208
DL3KVR	OH8L	172,260
	(OH8LQ, op)	
	S57DX	169,920
	OH4A	159,036
	(OH6QU, op)	
	PY2NY	157,491

DX CW 40	DK3GI	1,897,500
HP1/DJ7AA	IK0YVV	1,547,913
ZW5B (PY2NDX, op)	LY7Z (LY2TA, op)	1,123,128
CO2JD	IK2AHB	1,121,676
C6ALK	PY8AZT	966,600
YT7A (4N7DW, op)	PA5KT	946,815
9A3IQ	LY2CY	651,501
HA9SU	OE8CIQ	573,516
OM5M	DJ9RR	400,824
(OM2RA, op)	DX CW Multioperator Single Transmitter	
IU3X (IV3SKB, op)	ZF2NT	5,949,768
UW5Q	9Y4TBG	5,602,182
(UR3Q CW, op)	PJ4G	5,165,532
DX CW 80	PJ2T	5,152,284
C6AKQ (N4BP, op)	TM5C	3,423,126
YV5OHV	HG1S	2,457,036
YV4GLD	V47WW	2,410,545
G0IVZ	OM7M	2,354,160
OR3T	IR4A	1,637,559
SO2R (SP2FAX, op)	JA8RWU	1,181,454
IR2C	DX CW Multioperator Two Transmitters	
(IK2NCJ, op)	VP5LP	7,891,914
HG8C	6D2YFM	6,840,444
(HA8EK, op)	9A7A	3,239,502
DJ0MDR	HG6N	2,662,983
OL8M	RU1A	2,201,580
DX CW 160	OL7W	1,879,956
KV4FZ	V31YN	1,798,920
CM6RCR	JH5FXP	1,787,256
T31MY (KM9D, op)	LZ9W	1,729,308
CO8TW	DL1MGB	357,435
G4VGO	DX CW Multioperator Unlimited Transmitters	
F6FGZ	T15N	6,453,540
IK4MGP	CS6V	5,913,303
YV5MBX	9A1A	4,331,151
DJ3TF	RW2F	3,050,784
JA8NFV	HG3DX	2,646,270
DX CW Single Operator Assisted	JA3YBK	2,476,671
V26G	RO4M/6	2,209,662
(N2ED, op)	OZ5W	1,794,672
	8S5X	1,648,746
	LY7A	1,166,160

for 2003. Not only did winner V26G (Ed Wlodarski, N2ED, op) outdistance the pack by a huge margin, his score was good enough to set the SO/A category record with a line score of 4127 QSOs and 325 multipliers for 4,023,825 points.

Second place finisher and top European score was Roland Mensch, DK3GI, with 1,897,500 points. Top South American finisher was the 6th place score of Luciano Silva, PY8AZT at 966,600 points. #1 Asian finisher was OD5/OK1MU in Lebanon, operating one of his last contests from there before returning to Europe. Thanks for the OD multiplier for all those years, Pavel!

DX Single Band

Bill Smith, W9VA, ventured to Fernando de Noronha to operate PY0FF to victory in the DX 10 meter single band category with a line of 1911/59 for 338,247, narrowly edging past two Brazilians in the second and third positions to take the win. It was Oms, PY5EG, operating PT5T taking second at 329,730 and Paul Toledo, PY3DX, finishing third at 321,786. South America represented 9 of the top 10 positions in the category, with M7M (G0CKP, op) coming in at #7 the lone European.

WRTC-2002 competitor Fred Handscombe, G4BWP operated as XT2WP from Burkina Faso in west Africa to take the top 15 meter single band spot with a score of 440,376. This was also good enough to break the previous DX 15 meter single band record set by VP5TT (K2KW, op) in 2000. Second place went to Joe Staples, W5ASP, who operated ZF1A and finished with 358,956—exactly the same score that VP5TT ended with to set the previous record.

Twenty meters featured a very tight race with WRTC-1996 competitor Giuseppe La Parola, IT9BLB, operating as IU9S with a score of 262,218, edging out second place finisher 9G5ZZ (Arno Polinsky, DL1CW, op) at 260,130.

Forty meters was won decisively from Panama by Wil Gottschald, DJ7AA, operating as HP1/DJ7AA and coming in with a line score of 1683/60 for 302,940 points. Second place went to Rafael Martins, PY2NDX, operating as ZW5B.

Bob Patten, N4BP, winner of the 40 meter single band plaque in 2002, moved to 80 meters for 2003 to take the win from the Bahamas, operating as C6AKQ. 160 meters was won by Herb Schoenbohm, KV4FZ, with a score of 65,208.

DX Multi-Op Categories

It was a team of operators working from the island house owned by Bruce Sawyer, N6NT, that are this year's winner in the DX Multi-Operator Single-Transmitter

Plaque Winners

Plaque Category

W/VE Single Operator High Power CW	Winner	KT1V (NT1N, op)
W/VE Single Operator Low Power CW	VE3EJ	
W/VE Single Operator QRP CW	K2DM	
W/VE Single Operator Assisted CW	W2UP	
W/VE 3.5 MHz CW	W1MK	
W/VE 7 MHz CW	N4PN	
W/VE 14 MHz CW	N2MF	
W/VE 21 MHz CW	W4KZ (K4BAI, op)	
W/VE 28 MHz CW	W4ZV	
W/VE Multioperator Single Transmitter CW	K8AZ	
World Single Operator High Power CW	WP3R (K9PG, op)	
World Single Operator Low Power CW	KP4KE (DK8ZB, op)	
World Single Operator Assisted CW	V26G	
World 1.8 MHz CW	KV4FZ	
World 28 MHz CW	PY0FF (W9VA, op)	
World Multioperator Two Transmitter CW	VP5LP	
World Multioperator Unlimited CW	T15N	
Single Operator Asia High Power CW	P3F (5B4AGN, op)	
Single Operator North American High Power CW	TG0AA (K7BV, op)*	

Asian Multioperator Single Transmitter CW	Yankee Clipper Contest Club
Europe Multioperator Two Transmitter CW	Jim George, N3BB
Europe Multioperator Unlimited CW	Texas DX Society
Japan Low Power All Band CW	Western Washington DX Club
Ninth Call Area All Band CW	Northern Illinois DX Association
Seventh Call Area All Band CW	Willamette Valley DX Club
Central Division High Power All Band CW	Society of Midwest Contesters
Central Division Multioperator Single Transmitter CW	Society of Midwest Contesters
Central Division Low Power All Band CW	Society of Midwest Contesters
Rocky Mountain Division Single Operator Low Power CW	Grand Mesa Contesters of Colorado

If you would like to purchase an unsponsored plaque for a Division, Call Area, Continental or Overall Category win, please contact contests@arrl.org or phone 860-594-0295. Plaques are \$60 each.

*Plaque awarded to second-place finisher; winner awarded higher-level finishing plaque.

Continental Leaders

Single Operator QRP		Europe		Oceania		Asia		South America		
Asia		F6BEE	2,754,360	DU9/N0NM	4,860	JH3AIU	140,292	15	PY8AZT	966,600
JR4DAH	112,716	North America		South America		Europe		Multioperator Single Transmitter		
Europe		WP3R (K9PG, op)	5,530,875	YV5OHW	162,279	80	MSX (G4TSH, op)	246,036	15	Asia
HA1CW	424,668	Oceania		Asia		North America		South America		
North America		KH7X (KH6ND, op @ KH7R)	4,814,5503	JH1AEP	87,291	40	ZF1A (W5ASP, op)	358,956	15	JA8RWU
WP4JXD	191,391	South America		Europe		South America		Europe		
Oceania		HP1/DJ7AA	302,940	YT7A (4N7DW, op)	170,868	40	CX7BY	232,638	15	TM5C
N7ET/DU7	23,244	Single Operator Single Band		North America		Africa		North America		
South America		ZA3G	5,742	HP1/DJ7AA	302,940	40	9G5GA (DL3GA, op)	147,744	10	ZF2NT
FY5KE	1,953,630	Asia		Oceania		Asia		South America		
Low		JA8NFV	798	ZL3GA	5,742	40	JF1SQC	34,650	10	9Y4TBG
Africa		South America		South America		Europe		Multioperator Two Transmitter		
EA8CN	783,156	ZW5B (PY2NDX, op)	228,240	40	M7M (G0CKP, op)	186,450	10	10	1,787,256	
Asia		Africa		North America		North America		Europe		
JH4UYB	708,948	9G5ZZ (DL1CW, op)	260,130	20	HT4T (YN4SU, op)	150,684	10	9A7A	3,239,502	
Europe		Asia		Europe		Oceania		North America		
F6EYB	1,017,360	UA9KM	85,470	20	A35RK	161,370	10	VP5LP	7,891,914	
North America		Europe		North America		South America		Multioperator Unlimited Transmitter		
KP4KE (DK8ZB, op)	4,240,056	IU9S (IT9BLB, op)	262,218	20	PT5T	329,730	10	10	2,476,671	
Oceania		South America		Single Operator Assisted		Asia		Europe		
VK5GN	916,266	YV5MBX	3,672	160	OD5/OK1MU	85,440	10	CS6V	5,913,303	
South America		Asia		Oceania		Europe		North America		
OA4DKC	2,032,128	JM1LRQ	3,627	80	YB2MTA	3,381	20	TI5N	6,453,540	
High		North America		South America		Africa				
Africa		C6AKQ (N4BP, op)	175,275	80	PY2NY	157,491	20			
D4B (4L5A, op)	5,259,480	North America		Africa		North America				
Asia		XT2WP (G4BWP, op)	440,376	15	40	V26G	4,023,825			
P3F (5B4AGN, op)	1,055,799									



The EA8BH antenna system in the Canary Islands where Wayne, N7NG, posted an 8th place finish in the Single Operator High Power DX category.

W/VE Region Leaders

Tables list call sign, score and power (A = QRP, B = Low Power, C = High Power).

CW		Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)		Southeast Region (Delta, Roanoke and Southeastern Divisions)		Central Region (Central and Great Lakes Divisions; Ontario Section)		Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)				
KT1V (NT1N, op)	6,226,974	C	K1TO	5,480,952	C	N9RV	3,081,471	C	K5GN	3,529,812	C	KC7V	1,606,479	C
KQ2M	5,675,454	C	N4ZR	2,836,872	C	K8GL	2,645,985	C	W5KFT (K5PI, op)		C	WA6O (@ N6RO)		C
VY2ZM (K1ZM, op)	5,490,114	C	K4EU	2,341,083	C	VE3AT	2,459,250	C		2,550,366	C	W2VJN	1,545,480	C
K5ZD (W4PA, op)	5,458,815	C	W4NZ	1,732,728	C	K9SD	1,896,552	C	K5NA	2,467,920	C	W7GG	1,274,064	C
N2NT	4,914,630	C	W4/G4BUE	1,555,866	C	N9CK	1,877,631	C	N3BB	2,404,224	C	N6AA	1,225,890	C
									K0SR	1,420,710	C			
N1UR	1,895,070	B	WJ9B	1,498,941	B	VE3EJ	2,484,000	B	N5AW	1,618,875	B	N6NF	693,504	B
W3EF	1,844,814	B	K4GKD	1,257,138	B	KK9A	1,653,900	B	W5AC (NT5TU, op)		B	WN6K	494,100	B
K2PS	1,749,150	B	N4IG	1,183,656	B	N4TZ	1,430,244	B		647,064	B	K6TA	481,800	B
W1WAI	1,621,224	B	W4AA	1,132,638	B	VE3ANX	1,198,368	B	N5PO	628,002	B	K8IA	377,325	B
W2TZ	1,585,503	B	NA4K	1,079,850	B	VE3XB	992,772	B	N0FP	434,565	B	K7HBN	370,116	B
									K0SR	295,776	B			
K2DM	1,022,055	A	N4KG	773,388	A	K8ZT	222,264	A	KG5U	481,425	A	N7IR	374,742	A
K3TW	433,497	A	W9WI	371,280	A	WB8RTJ	216,540	A	N0UR	221,400	A	W6JT1	358,545	A
K2JT	376,650	A	WB3BEL	303,810	A	N8IE	206,025	A	WA8ZBT	165,540	A	W7YAQ	208,662	A
N1TM	326,151	A	NU4B	267,741	A	VA3DF	134,406	A	K5IC	96,642	A	W6QU	186,624	A
K3AJ	319,872	A	WD4GBW	209,160	A	VE3WZ	84,201	A	N0TK	43,680	A	NQ7X	83,889	A

category. Operating as ZF2NT from the Cayman Islands, they led the category in both QSOs and multipliers to take the top spot with a score of 5,949,768. This was only 30,000 points shy of the DX M/S category record, also set from the Caymans in 1990.

The next three positions were filled by stations off the coast of South America with a German team operating from Trinidad and Tobago as 9Y4TBG finishing second with 5,602,182. Third and fourth were teams operating from the A-B-C island chain off the coast of Venezuela, with PJ4G on Bonaire third with 5,165,532 and PJ2T on Curacao fourth with 5,152,284.

Top European M/S score was France's TM5C at 3,423,126. Top Asian score was JA8RWU at 1,181,454.

The DX Multi-Operator Two Transmitter category featured a runaway win by a group operating from Turks and Caicos as VP5LP. Their score of 7,891,914 was more than 1 million points ahead of second place finisher 6D2YFM at 6,840,444. Top M/2 European score was 9A7A with 3,239,502.

In the battle of the DX big boys, it was TI5N taking the DX Multi-Operator Multi-Transmitter category from Costa Rica with a score of 6,453,540. Second place finisher and top European score was Portugal's CS6V with 5,913,303 points. Top score for M/M from Asia was the JA3YBK club at 2,476,671.

Coda

"Sunspots, we hardly knew ye." A mutation of the traditional Irish ballad, for sure, but no less true. While scores are down, participation in ARRL DX CW remains high, with 2354 logs submitted for the 2003 running. This represents a slight decline from the last two years but is still the third highest log submission total recorded to date. Despite the solar variations, let's hope that participation levels continue to be stable in the years to come. Be prepared...February 21-22 will bring more than snow and ice in 2004...It will bring the opportunity to test your skills once again in one of the premier contest events. 73!



Scores

Scores are listed by DXCC Countries and ARRL-RAC Sections. Within each Country or Section, scores are listed in descending order, by power category, followed by multi-operators. Line scores list call sign, score, QSOs, multipliers, power (A = QRP, B = Low Power, C = High Power, D = Multioperator), and band (if Single Operator Single Band).

CW				Vermont				Western New York				K1EFI			
W/VE				N1UR				W2TZ				84,480			
Single Operator				1,895,070				1,585,503				220			
1				1810				1559				128			
Connecticut				349				339				B			
N1TM				501				259				B			
KA1VEC (NM1K,op)				217				236				B			
14,274				78				130				B			
78				61				130				B			
W1EQ				909,216				67,116				W3HVQ			
1148				264				188				1,034,931			
1148				264				188				283			
W3TB				466,473				54,648				W3AZ			
679				229				184				484,056			
679				229				184				243			
K1BV				214,200				50,868				W3DAD			
408				175				157				406,923			
408				175				157				209			
W1JQ				200,934				30,888				W3WB			
366				183				117				348,159			
366				183				117				281			
W1UK				162,279				4,212,600				W3GN			
247				219				425				322,245			
247				219				425				217			
K1ZE				151,980				2,981,460				W6NRJ			
298				170				395				18,212			
298				170				395				66			
W1CTN				61,047				2,334,960				W3EWL			
171				119				368				94,944			
171				119				368				86			
WW3K				41,613				2,110,968				W3YKI			
143				97				348				38,214			
143				97				348				6			
K3UFG				20,367				1,862,685				WR3L			
93				73				355				91,530			
93				73				355				90			
N1API				12,702				799,920				339			
58				8				880				6			
58				8				880				6			
KQ2M				5,675,454				646,758				312			
4086				463				826				152			
4086				463				826				152			
W1WEF				1,140,984				95,580				W3VAV			
1219				312				236				17,094			
1219				312				236				77			
K1YR				378,048				3,828				W3WS			
704				179				44				1,159,152			
704				179				44				328			
N1JW				97,104				9,792				N3FR			
238				136				80				738,684			
238				136				80				289			
KA1VMG				28,536				NA2X				WA3EQJ			
116				82				3,960				150,612			
116				82				3,960				154			
WA1FCN				73,485				WB2DVU				NA3V			
345				20				42,000				73,800			
345				20				42,000				107			
Eastern Massachusetts				2				Eastern New York				Western Pennsylvania			
W1TW				78,561				K2UG (AA2DY, op @ WA2MM)				K3WWP			
203				129				589,764				142,272			
203				129				1003				312			
K1HJ				67,830				K2UF				WN3VAV			
190				119				394,992				17,094			
190				119				624				77			
W1WAI				1,621,224				KE2SD				W3WS			
1518				356				98,241				1,159,152			
1518				356				229				1178			
K1HT				1,131,495				N2SQW				N3FR			
1205				313				36,636				738,684			
1205				313				86				289			
W1TE				1,097,046				W2XL				WA3EQJ			
1033				354				2,398,680				150,612			
1033				354				2221				326			
N1DC				781,293				K2KQ				NA3V			
961				271				1,657,908				144,597			
961				271				1428				307			
K1EP				491,073				K2XF				K3VX			
647				253				514,212				73,800			
647				253				587				205			
WG1Z				438,489				W2YK				K3FH			
587				249				504,849				54,891			
587				249				521				171			
N3KCJ				398,268				K2DW				N3ZN			
598				222				15,288				47,709			
598				222				98				279			
KR1B				214,830				WX2N				K3JHT			
186				6				19,431				4,320			
186				6				51				32			
WA1OLV				180,030				NYC-Long Island				K3CR			
353				170				AK2P				2,854,827			
353				170				156,240				2397			
N1DS				167,007				N2GA				K3GW			
311				179				1,108,890				290,460			
311				179				1369				412			
KY1B				106,650				WA2VZQ				W3GH			
225				158				274,446				4,488			
225				158				474				34			
WB1FLA				106,002				WB2ART				N3GJ			
234				151				35,910				38,979			
234				151				133				71			
KQ1F				100,548				K2EL				KM3J			
252				133				32,487				7,560			
252				133				119				42			
WS1L				91,440				KD2RD				Alabama			
240				127				2,175,363				N4KG			
240				127				2139				773,388			
W1VIV				78,120				N2UN				N4NR			
248				105				560,142				44,100			
248				105				759				147			
K1RB				31,668				N2GC				K4AGT			
116				91				100,440				29,151			
116				91				120				79			
KV1J				18,300				AB2GG				N4JF			
100				61				12,180				14,100			
100				61				58				47			
K5ZD (W4PA, op)				5,458,815				W3EH				K4NVJ			
4089				445				966				33,480			
4089				445				23				180			
K5MA				1,258,578				K2MFY				K4WI			
1371				306				145,530				51,708			
1371				306				98				278			
K1GU				1,106,001				WB2AMU				Georgia			
1233				299				52,836				WB6BWZ			
1233				299				238				89,964			
W1ZT				790,938				KD2HE				AA4GA			
302				C				41,856				1,036,656			
302				C				64				1104			
K1YA				128,643				Northern New Jersey				N4NX			
313				137				K2DM				455,994			
313				137				1,022,055				462			
W1FM				127,224				K2JT				AE4Y			
279				152				376,650				48,480			
279				152				558				160			
W1MK				198,198				WA2ALY				K4OGG			
847				80				33,012				16,896			
847				80				131				88			
K2LP				14,832				W2JFK				W4RHG			
103				80				21,216				58,422			
103				80				104				182			
K1MC				15,288				KX2S				K4TEA			
104				20				220,008				8,442			
104				20				412				67			
K1PNQ				11,475				K2WA				KU8E (@NQ4I)			
85				45				185,325				83,808			
85				45				175				388			
Maine				W2CVW				Northern New Jersey				K2UFT			
W1AH				470,232				K2YLN				18,981			
622				B				129,888				111			
622				B				264				57			
K1SWG				77,184				N2LK				NQ4I			
192				B				84,546				312,480			
192				B				231				992			
N1LW				8,556				N2CG				W4KZ (K4BAI, op)			
62				46				70,104				472,548			
62				46				184				1486			
W1AO				1,890,000				N2VM				82,476			
1800				350				68,625				348			
1800				350				125				79			
K1PQS				867,360				WA2BMH				Kentucky			
278				C				28,665				KD9B			
278				C				4,428				9,558			
W1GF				404,172				WA2TWS				KM4FO			
654				206				4,428				64,032			
654				206				36				184			
New Hampshire				N2NT											

WZ7W	1,587	23	23	A	20	WF3J	1,337,280	1393	320	C	KS5V	237,630	445	178	B	N6KI	8,010	89	30	C		
W4ZV	442,734	1306	113	C	10	W0YR	1,027,026	1287	266	C	N5HB	184,275	325	189	B	San Francisco						
Northern Florida						W4YE	945,540	1020	309	C	K5GM	167,670	345	162	B	W6JTI	358,545	583	205	A		
KQ4YY	5,130	45	38	A		W4AJUK	544,260	772	235	C	N5TK	132,060	284	155	B	K6MTI	69,324	212	109	B		
W4AA	1,132,638	1117	338	B		W2YE	535,392	676	264	C	K5LJ	87,249	229	127	B	K6OWL	44,178	199	74	B		
W4YA	340,473	523	217	B		KB9CR	492,480	1026	160	C	AC5AA	68,625	183	125	B	W6WD	41,040	180	76	B		
KN4Y	161,553	343	157	B		K1KO	445,962	638	233	C	W5EB	33,915	133	85	B	W6Y5	27,495	141	65	B		
N4EK	147,744	304	162	B		W4ZYT	384,132	538	238	C	AD6G	31,320	116	90	B	AD6TF	140,154	329	142	C		
W4TMM	42,066	123	114	B		N4MM	247,590	393	210	C	WB5TUF	29,328	104	94	B	K6WC	125,424	312	134	C		
KB4N	18,522	98	63	B		K4EC	227,430	399	190	C	N5PV	23,028	101	76	B	K6CTA	63,237	197	107	C		
K4LW	14,442	83	58	B		N3JB	117,072	271	144	C	K5CWR	22,500	100	75	B	NM6E	1,632	32	17	C		
NF4A	8,556	62	46	B		N3JT	49,599	167	99	C	KA5EYH	22,152	104	71	B	San Joaquin Valley						
W7QF	240,240	385	208	C		AC8Y	300	10	10	C	80	KD5CMN	9,450	63	50	B	K6MI	855	19	15	A	
AC0M	30,780	114	90	C		K4TX	117,234	501	78	C	40	W5GSQ	6,240	52	40	B	AK7G	104,937	263	133	B	
N4PN	307,098	1034	99	C	40	K4OAQ	392,337	1321	99	C	15	AC5XK	3,864	46	28	B	K6CSL	41,574	169	82	B	
ND4AA	148,230	610	81	B	15	NC4S	12,177	99	41	B	15	K5GN	3,529,812	2662	442	C	KN6YD	30,240	120	84	B	
AD4E	12,720	106	40	C	15	W4HM	78,822	302	87	B	10	W5KFT (K5PI, op)					W6FRH	79,248	208	127	C	
K9OM	108,780	490	74	B	10	K4RDU	32,319	171	63	B	10	K5NA	2,467,920	2260	364	C	N6HK	16,854	106	53	C	
W4VQ	45,492	223	68	B	10	West Central Florida					K5HDU	2,404,224	2087	384	C	N5VWN	75	5	5	A	10	
South Carolina						W2HLI	27,144	116	78	A	W5GCX	11,340	84	45	C	Sacramento Valley						
AA4V	318,069	599	177	C		K4GKD	1,257,138	1266	331	B	West Texas					K6TA	481,800	550	292	B		
K4OH	80,514	213	126	C		N4IG	1,183,656	1192	331	B	NZ5M	2,871	33	29	B	15	W6RFF	152,055	327	155	B	
K4DLJ	45,738	231	66	C	80	K4LOG	201,453	371	181	B	6					K6KYJ	96,000	250	128	B		
K0COP	18,645	113	55	C	20	N4TB	146,466	309	158	B	East Bay					K6KIN	39,585	145	91	B		
K4RV	7,869	61	43	C	15	W1CSM/4	41,850	155	90	B	KE6QR	48,450	190	85	B	KG6CMS	1,380	23	20	B		
Southern Florida						K1TO	5,480,952	4042	452	C	K6OY	2,886	37	26	B	N6XI	925,830	1215	254	C		
WA3NKO	186,900	356	175	A		W4/G4BUE					WA6O (@N6RO)	1,545,480	1944	265	C	N6JV	907,515	1005	301	C		
WT5L	135,648	288	157	B		W4IR	413,100	540	255	C	K6SRZ	131,703	307	143	C	K6LRN	420,624	552	254	C		
VE3XD/W4	70,329	197	119	B		N4AO	231,264	876	88	C	10	W1HDO	57,558	181	106	C	W6IXP	330,756	641	172	C	
W4OV	48,792	152	107	B		W4BTDH	193,776	734	88	B	10	WA2BHJ	41,340	130	106	C	W6NKR	209,055	385	181	C	
AB4RL	43,065	145	99	B		K9HUY	86,526	418	69	C	10	K6LDX	14,256	99	48	B	15	N6IG	273,537	921	99	C
WO4G (K9VV, op)						5					K6LDO	57,558	181	106	C	N6GRC	34,944	182	64	C	15	
N4CU	24,648	112	93	B		Arkansas					K6LRN	420,624	552	254	C	K6RN	28,350	150	63	C	15	
W4QM	816,687	881	309	C		K9IW	286,560	480	199	B	Los Angeles					W6K6V	16,632	132	42	B	10	
K4PB	489,888	648	252	C		WA5SOG	255,231	411	207	B	W6RCL	34,650	165	70	A	N6WR	2,508	38	22	B	10	
K4WJ	225,540	420	179	C		WA5KAK	61,218	179	114	B	W6AQQ	82,377	243	113	B	7						
N8PR	193,698	306	211	C		W5RW	12,852	63	68	B	KN6A	30,492	132	77	B	Arizona						
N4JT	19,488	116	56	C		K5DB	120,744	258	156	C	W6FA	28,560	112	85	B	N7IR	374,742	573	218	A		
WC4H	19,089	101	63	C		W5MK	7,920	60	44	B	40	N6GL	22,374	113	66	B	NQ7X	83,889	239	117	A	
N4PSE	960	20	16	B	160	Louisiana					N6AA	1,225,890	1285	318	C	K8IA	377,325	559	225	B		
N4ACW	36	4	3	B	160	W5WZ	3,936	41	32	A	K0DI/6	440,226	661	222	C	W7ZMD	133,650	330	135	B		
K4PG	3,321	41	27	B	80	W5EKF	495,474	658	251	B	W06M	304,722	513	198	C	W2HTX	75,465	215	117	B		
K4MM	61,746	251	82	B	20	K5KLA	164,160	360	152	B	N6AV	110,160	272	135	C	W7KPL	16,800	100	56	B		
Tennessee						AA5SH	8,379	57	49	B	N6TT	21,684	139	52	C	KC7V	1,606,479	1589	337	C		
W9WI	371,280	560	221	A		WA5TWL	47,817	253	63	B	10	K6SE	1,176	28	14	C	160	W7YS	216,942	418	173	C
NU4B	267,741	419	213	A		Mississippi					K6MMC	750	25	10	A	40	NI7R	213,351	361	197	C	
N4UW	72,384	208	116	A		W5KK	185,730	302	205	B	K6ASK	714	17	14	B	40	W0LTL	155,526	322	161	C	
K4BX	18,048	94	64	A		NI5F	175,500	325	180	B	Ai6Z	29,583	173	57	B	15	W8AEF	12,426	109	38	C	
NA4K	1,079,850	1150	313	B		N5PU	70,173	207	113	B	Orange					KY7M	34,440	164	70	C	15	
AA3VA	204,678	411	166	B		N5YW	5,328	48	37	B	W6SJ	126,840	302	140	B	KX7J	25,380	141	60	B	15	
W4TYU	143,988	284	169	B		WA5OYU	54,540	180	101	C	WA6OGO	59,904	208	96	B	W7AYY	11,766	74	53	C	15	
W4HZD	122,292	258	158	B		New Mexico					W8KIE	46,458	174	89	B	KI7LS	462	14	11	B	15	
WD4OHD	47,874	158	101	B		K5IC	96,642	273	118	A	W8KNR	880,110	1155	254	C	Eastern Washington						
W4NI	36,696	139	88	B		KM5P	25,830	105	82	A	K7JJ	100,776	247	136	C	WS7V	62,118	203	102	B		
WA4GLH	12,852	68	63	B		W5IL	10,050	67	50	B	W6HT	37,422	162	77	C	WA7LT	871,884	1053	276	C		
W4NZ	1,732,728	1679	344	C		N6ZZ	1,120,164	1156	323	C	K6HRT	22,656	128	59	C	K7MM	16,500	110	50	A	20	
K4LTA	1,485,159	1469	337	C		W6TER	192,234	322	199	C	Santa Barbara					Idaho						
K4WX	1,131,669	1491	253	C		K5AM	36,663	121	101	C	W6FGV	139,797	317	147	B	W7QDM	285,975	465	205	B		
K4AMC	339,012	657	172	C		W5YZ	44,226	189	78	B	10	W6UM	535,050	615	290	C	N7ZN	156,114	354	147	B	
K4RO	170,208	394	144	C		North Texas					W6VGI	501,942	646	259	C	KG7H	257,868	494	174	C		
W4RK	149,400	332	150	C		WA8ZBT	165,540	356	155	A	N6VR (VE3RZ, op)	312,120	612	170	C	K0IP	16,236	82	66	C		
KE4OAR	124,389	271	153	C		N5PO	628,002	753	278	B	W7CB	8,772	86	34	C	80	K0TO	24,090	146	55	C	40
K3CQ	89,208	252	118	C		N5CHA	142,614	278	171	B	Santa Clara Valley					KA7T	74,337	349	71	B	20	
N4IR	69,930	222	105	C		WM5DX	41,223	151	91	B	N6NF	693,504	903	256	B	Montana						
W4OGG	21,660	95	76	C		N5RG	889,560	1059	280	C	N6DQ	47,175	185	85	B	KL7FDQ/7	243	9	9	A		
WN4M	900	20	15	A	10	K5LP	383,568	524	244	C	ND2T	36,972	158	78	B	KE7NO	72,954	193	126	B		
Virginia						W5CWO	13,542	74	61	C	W6ISO	15,549	71	73	B	KC7UP	72,912	196	124	C		
WB3BEL	303,810	494	205	A		W5UN	244,125	875	93	C	40	W6LSN	2,352	28	28	B	KS7T	23,052	113	68	C	
WD4GBW	209,160	415	168	A		NI5M	137,952	479	96	B	15	KG6HAF	1,173	23	17	B	Nevada					
N4UY	38,475	135	95	A		K5RX	310,086	966	107	C	10	K6XX	1,052,100	1169	300	C	N7ON	28,875	125	77	B	
AB8CK	6,480	48	45	A		Oklahoma					W7SW	333,753	691	161	C	KC7NUP	12,300	100	41	B		
K4FFP	664,122	766	289	B		K5OI	30,438	114	89	A	W6D6X	6,669	57	39	B	20	WA7CWM	468,720	840	186	C	
W4PM	422,295	599	235	B		K5UV	117,885	271	145	B	W5S5 (@W6YX)	182,250	675	90	C	15	Oregon					
K4WY	407,973	569	239	B		K0CIE/5	31,185	135	77	B	W6PRI	2,214	41	18	B	15	W7YAQ	208,662	419	166	A	
K4UVT	403,137	567	237	B		K5YAA	570,540	740	257	C	San Diego					NB7F	31,104	144	72	B		
N6MW	212,520	322	220	B		N5OT	130,260	260	167	C	W6QU	186,624	384	162	A	N7OR	25,404	116	73	B		
K4ORD	206,505	353	195	B		K2BA																

K7RAT (N6TR, op)			
42,624	222	64	C
N6PZ	34,632	148	78 C

Utah			
W7HS	171,312	332	172 B
K7RJ	588	14	14 B
W7UT	227,850	775	98 C 15

Western Washington			
K7HBN	370,116	596	207 B
N7LOX	250,446	469	178 B
AB7RW	173,010	365	158 B
W7TSQ	75,348	276	91 B
N7WA	67,704	217	104 B
W7GTO	59,364	194	102 B
W7SNH	51,840	216	80 B
W7LKG	32,718	133	82 B
N9ADG	14,850	90	55 B
AA7PM	12,420	90	46 B
N7TT	888,507	1101	269 C
AC7LX	550,494	714	257 C
W7VJ	532,152	778	228 C
W7IIT	198,606	419	158 C
K7VI	162,432	376	144 C
KB7N	133,152	292	152 C
K7KCS	69,252	199	116 C
WG7X	5,016	44	38 C
W7AFA	330	11	10 C
W7DRA	252	12	7 B160
K7UIR	156	13	4 C160
KE7V	16,200	100	54 B 40
W7DPW	5,472	48	38 C 40
W7WA	322,296	1033	104 C 20
K7LVJ	6,930	70	33 B 20
W7RAB (KH7YD, op)	22,005	163	45 A 10

Wyoming			
WC7S	7,314	53	46 A
W7AJK	4,884	44	37 B
WG7Y	4,284	42	34 B
NE9Z	126,195	235	179 C

8			
Michigan			
KC8LTL	54,609	167	109 A
K8DDB	43,776	152	96 A
AB8DF	2,070	30	23 A
K8IR	386,784	544	237 B
K8KG	381,600	600	212 B
K8GT	296,370	445	222 B
K8KU	135,900	300	151 B
KB8PGW	130,845	305	143 B
W8PI	119,196	258	154 B
K8MEG	55,776	166	112 B
K8CV	40,851	153	89 B
N8NX	26,220	115	76 B
WA8OLD	14,640	80	61 B
N8UZE	2,025	25	27 B
K8GL	2,645,985	2095	421 C
W8MJ	765,369	859	297 C
K8RS	730,320	716	340 C
W8TWA	413,580	565	244 C
W8UD	386,280	580	222 C
K8YTO	75,294	178	141 C
W8TOP (W8UVZ, op)	3,330	37	30 C160
K8AQM	31,680	165	64 C 80
K8MD	15,066	93	54 C 80
AA8R	2,016	28	24 B 80
KT8X	43,362	219	66 C 40
W8WVU	8,643	67	43 C 40

Ohio			
K8ZT	222,264	378	196 A
WB8RTJ	216,540	401	180 A
N8IE	206,025	335	205 A
N8WS	13,200	80	55 A
N8AA	972,132	994	326 B
KV8Q	572,352	704	271 B
K8NVR	357,714	501	238 B
W8GOC	245,952	427	192 B
K8FH	191,394	343	186 B
W8WT	183,960	292	210 B
W8PN	175,350	350	167 B
K8LY	126,846	243	174 B
N8EW	81,024	211	128 B
W8DHG	60,480	168	120 B
AB8NI	59,685	173	115 B
K8RT	34,404	122	94 B
K8AB	30,015	115	87 B
N8UW	26,325	117	75 B
K3GP	25,122	106	79 B

W8IDM	11,550	70	55 B
K8MR	9,150	61	50 B
KD8W	8,142	59	46 B
K8VUS	6,480	54	40 B
W8WTS	1,620	27	20 B
WZ8A	297,297	429	231 C
WA8TNO	217,485	405	179 C
N8XP	115,368	253	152 C
NC8V	69,600	200	116 C
W8QID	28,728	152	63 C 80
N8BJQ	203,820	790	86 C 15
WA8RJF	17,400	116	50 A 15
KD8RB	8,910	99	30 B 15

West Virginia			
N4ZR	2,836,872	2542	372 C
K8JQ	600,117	697	287 C
K8OQL	428,652	567	252 C
K2UOP	130,005	535	81 C 40
N8II	386,484	1204	107 C 20
K8OWL	13,635	101	45 C 10

9			
Illinois			
WB9MII	816	17	16 A
KK9A	1,653,900	1490	370 B
N9JF	861,300	957	300 B
K9JE	306,375	475	215 B
K9UIY	293,022	446	219 B
WX9U	185,691	331	187 B
W9SZ	116,280	255	152 B
W9YO	79,968	196	136 B
KB9YSI	70,785	165	143 B
K9CG	68,886	178	129 B
W9CEO	30,876	124	83 B
W0KT	27,864	129	72 B
N9KO	25,584	104	82 B
W9DY/M	15,405	79	65 B
W9LYA	8,415	55	51 B
N9DT	768	16	16 B
KG9IE	243	9	9 B
K9SD (+K19A, WB0DRH, K9ZA, K0RAY, K0JPL)	1,896,552	1491	424 C
W3HDH	158,184	312	169 C
K9BGL	148,347	311	159 C
KG9X	142,926	287	166 C
W9YYG	133,860	485	92 C
A19T	67,497	149	151 C
AA9NF	19,170	90	71 C
KB9YOZ	3,888	36	36 C
W9SE	51,984	228	76 C 40
K2AAW	41,400	200	69 B 40
KAGA	157,080	616	85 C 15
W9ILY	79,794	341	78 B 15
K9WA	79,704	324	82 B 15
K9AB	15,600	104	50 B 15
K9DR	19,950	133	50 B 10
W9IL	7,161	77	31 B 10

Indiana			
KE9V	32,214	118	91 A
N4TZ	1,430,244	1394	342 B
K9WX	242,034	377	214 B
AC9X	175,380	316	185 B
KA9F	81,420	230	118 B
K9MI	20,100	100	67 B
W9HLY	6,360	53	40 B
N9RV	3,081,471	2627	391 C
W9RE	1,518,780	1489	340 C
N9SE	273,504	407	224 C
W9KTP	181,050	355	170 C
K9NW	364,704	1048	116 C 20

Wisconsin			
W9WUU	482,541	673	239 B
N9CIQ	333,459	469	237 B
W9OA/9	216,477	359	201 B
K9IY	138,972	313	148 B
W9AEM	97,512	239	136 B
K9OSH	68,040	180	126 B
W9AKS	47,619	143	111 B
W9RN	44,688	152	98 B
N9EZ	36,894	143	86 B
KB9S	26,964	107	84 B
W9HR	6,300	50	42 B
N9CK	1,877,631	1687	371 C
W9OP	996,660	980	339 C
K9CAN	71,910	282	85 C 20
N9GGB	2,808	36	26 B 20
N19C	80,676	332	81 B 15
W9XT	114,144	464	82 C 10

0			
Colorado			
N0TK	43,680	160	91 A
WU0L	6,804	54	42 A
W0ETT	179,478	354	169 B
K1CBR	86,310	210	137 B
N0SXX	62,685	199	105 B
N0IBT	29,868	131	76 B
N1SZ	24,174	102	79 B
KC7QY	15,456	92	56 B
K0EZW	1,071	21	17 B
N0KV	426,006	686	207 C
N2IC	314,730	538	195 C
N2VWV	152,490	598	85 C 40
K0FX	77,787	387	67 C 40
KV0Q	267,138	918	97 C 15
K0AV	133,500	500	89 B 15
KJ0G	39,390	202	65 C 15
K0EX	16,758	114	49 B 15
N0HF	43,416	201	72 B 10

Iowa			
KE0FT	85,800	220	130 B
AD0H	34,290	127	90 B
K0XD	4,386	43	34 B
N0AV	340,896	536	212 C
WK0F	3,885	37	35 B 40
W0ETC	47,736	221	72 C 15

Kansas			
KF0XV	17,280	90	64 A
W0YRN	4,410	42	35 B
W0WPL	3,441	37	31 B
KG0UA	365,697	537	227 C
W0UY	143,676	307	156 C
W0TM	22,848	119	64 C 10

Minnesota			
N0UR	221,400	410	180 A
K0MAX	13,824	72	64 A
W0QF	10,608	68	52 A
N0FP	434,565	555	261 B
W0ZQ	221,331	353	209 B
N0BUI	171,843	343	167 B
W0PI	166,860	309	180 B
K0SQ	124,488	266	156 B
WB0GGM	102,225	235	145 B
WA2HFI	15,075	75	67 B
K0SV	1,875	25	25 B
K0SR	1,420,710	1334	355 C
WA0MHJ	494,109	651	253 C
KN0V	309,078	446	231 C
W0ML	261,459	417	209 C
W0HW	76,590	222	115 C
K4IU	41,400	150	92 C
W1GL	34,254	173	66 C 40
KC0W	3	1	1 A 40

Missouri			
K17WO	115,650	257	150 B
KA0P	6,750	50	45 B
K2HT	6,120	51	40 B
K0JPL	115,440	260	148 C
W0TY	39,762	141	94 C
WA0I	22,149	107	69 C
WA0IYY	13,392	72	62 C

Nebraska			
K0IL	46,800	156	100 B
WN0L	30,492	154	66 C 15

South Dakota			
K6VFF	40,590	165	82 B
KC0IOX	4,080	40	34 B
W0SD (W0DB, op)	1,228,968	1212	338 C
KD0S	86,724	198	146 C

Maritime-Newfoundland			
VY2ZM (K1ZM, op)	5,490,114	3902	469 C
VY2TT (K6LA, op)	4,043,034	3186	423 C
VE1OP	1,575,135	1479	355 C

Nova Scotia			
VE1GPL	175,911	307	191 B
VE1AYY	87,129	461	63 B 20

Newfoundland-Labrador			
VO1TA	20,412	162	42 B 80

Quebec			
VE2AWR	602,208	738	272 B
VE2DO	342,555	557	205 B
VE2XAA	276,600	430	214 B
VE2FFE	19,656	104	63 B
VE2AYU	1,147,296	1292	296 C
VE2HLS	5,700	50	38 B 20
VE2BWJ	6,570	73	30 B 15

Ontario			
VA3DF	134,406	262	171 A
VE3WZ	84,201	221	127 A
VE3SYB	5,148	44	39 A
VE3EJ	2,484,000	2070	400 B
VE3ANX	1,198,368	1314	304 B
VE3XB	992,772	1012	327 B
VE3KP	786,240	960	273 B
VE3NE	761,946	841	302 B
VE3CR	479,160	660	242 B
VE3OM	459,360	638	240 B
VE3GFN	264,504	428	206 B
VA3TEE	264,114	438	201 B
VE3KZ	225,990	279	270 B
VE3IAY	163,095	415	131 B
VA3XRZ	131,508	281	156 B
VA3EC	105,264	258	136 B
VE3GSI	101,727	267	127 B
VE3JCV	55,692	156	119 B
VE3NBJ	53,631	177	101 B
VA3PL	9,828	63	52 B
VE3RCN	5,400	50	36 B
VE3AT	2,459,250	2186	375 C
VA3UA	506,400	800	211 C
VE3MM	397,377	659	201 C
VE3PN	26,847	157	57 C 80
VE3UKR	5,883	53	37 B 20
VA3RJ	17,922	103	58 B 15
VE3OBU	16,218	102	53 C 15
VA3HUN	8,280	69	40 B 15
VE3STT	19,932	151	

W1RZF 483,552 584 276 C
 K1TH 380,196 537 236 C
 NG1J 315,315 429 245 B
 W1LLU 272,118 434 209 C
 W1RH 168,084 348 161 C
 N1MD 99,660 220 151 C
 W2SUQ 75,336 172 146 B
 N2PGD 57,960 140 138 B
 WY1U 57,876 182 106 C
 K1AE 17,850 85 70 C
 NF1A 9,747 57 57 C
 KC1F 1,173 23 17 C

2
 N1EU 3,841,830 2635 486 C
 W2GD 3,250,944 2176 498 C
 K2XA 3,242,160 2280 474 C
 N2MM 2,792,832 2078 448 C
 KF2O 2,121,966 1531 462 C
 WE2F 2,109,942 1906 369 C
 NA2U 2,100,447 1671 419 C
 W2GDJ 2,094,867 1699 411 C
 W2WB 2,034,630 1739 390 C
 K2ONP 1,636,992 1568 348 C
 W1GD 1,375,029 1203 381 C
 NY6DX 1,132,230 1034 365 C
 N1JP 847,692 846 334 C
 N2NI 814,113 867 313 C
 N2CQ 702,765 805 291 B
 K2OWE 655,308 668 327 C
 W2GR 557,112 668 278 B
 W2LE 484,803 649 249 C
 N1RK 450,528 608 247 B
 NT2X 403,434 723 186 C
 WK2H 298,116 507 196 C
 NA2M 285,912 418 228 C
 W2RDS 267,456 448 199 B
 K2BX 262,656 384 228 C
 NY2L 260,280 360 241 B
 K2EP 258,720 392 220 C
 W2RD 244,524 284 287 C
 K2UT 124,425 237 175 C
 N2VW 47,736 153 104 B
 AE2F 38,745 123 105 C
 WA3RHW 30,438 114 89 B
 K2AF 75 5 5 C

3
 W2UP 5,636,958 3743 502 C
 K3WW 5,513,832 3618 508 C
 AA3B 3,898,500 2825 460 C
 W3FV 2,882,064 2476 388 C
 N3AM 2,449,092 1996 409 C
 W3AP 1,695,168 1228 327 C
 W3BG 1,545,024 1238 416 C
 AB2E 1,457,064 1239 392 C
 K3ND 1,322,100 1130 390 C
 W3GG 1,292,310 1245 346 C
 WT3W 1,223,235 1105 369 C
 K3NZ 1,169,280 960 406 C
 K3CP 1,099,125 977 375 C
 WT3P 867,312 912 317 C
 N3ZA 855,117 729 391 C
 W3GK 773,694 811 318 C
 W3JQ 678,930 854 265 C
 W3CF 626,925 643 325 B
 NE3H 462,240 642 240 C
 WE3C 458,109 423 361 C
 N3MX 357,927 521 229 B
 N3SD 290,085 415 233 B
 NN3Q 284,625 375 253 C
 K3NL 101,019 223 151 B
 W3MF 82,566 198 139 C
 K3ZV 44,982 153 98 B
 NZ3O 19,392 101 64 C

4
 K4MA 3,178,140 2303 460 C
 W4NF 2,803,086 2178 429 C
 W4RM 2,350,338 2014 389 C
 K4SV 1,606,500 1428 375 C
 K3KO 1,198,668 989 404 C
 N4VV 812,736 816 332 C
 K1PT 721,644 847 284 C
 N4DW 712,368 776 306 C
 N4WW 592,722 663 298 C
 AD4EB 392,922 498 263 B
 WB9IHH 258,234 386 223 B
 K3WA 217,704 386 188 C
 KM4H 197,796 311 212 C
 K4GMH 197,280 411 160 C
 K4WW 190,302 394 161 B
 WB4YDL 187,785 321 195 C
 N4GI 177,507 363 163 C
 W4JVN 94,242 226 139 C

K8YC 80,013 179 149 C
 W3GQ 69,954 178 131 C
 W2ZI 67,554 278 81 B 20
 KC4HW 52,812 163 108 C
 KE4USA 48,087 137 117 B
 K2SD 36,036 132 91 B
 NX9T 33,063 107 103 B
 W4ZW 22,446 129 58 C
 K3UU 18,423 89 69 B

5
 N8SM 1,297,170 1015 426 C
 K1NT 1,071,696 1076 332 C
 N5JR 347,472 508 228 C
 W5TB 141,426 291 162 A
 NF6R 44,115 173 85 C
 WA7LNNW 2,025 27 25 A

6
 K6RIM 531,009 639 277 C
 N6WS 473,616 598 264 B
 K16T 234,000 390 200 C
 WA6TLA 158,025 301 175 C
 K6II 147,393 309 159 C
 W6TK 126,765 313 135 C
 N16T 107,124 226 158 C
 WB6IYM 61,800 200 103 C
 K6UFO 42,000 140 100 B
 W6ISQ 29,394 138 71 C
 WA6BOB 21,909 109 67 C
 W6SZG 13,608 84 54 C

7
 W7/DL3OI 827,400 788 350 C
 K7ABV 268,650 450 199 C
 N0AX 179,820 444 135 B
 W7LR 103,680 240 144 C
 WA7YAZ 93,765 235 133 B
 N7XY 20,862 114 61 B

8
 N8KM 555,228 582 318 C
 K3JT 512,424 647 264 B
 K8SIA 126,492 254 166 B
 W8ZA 108,336 244 148 C
 W8EH 58,128 173 112 B
 AF8C 20,700 92 75 B
 N8XE 16,932 83 68 B

9
 K9UQN 548,352 714 256 C
 N9NS 536,406 598 299 C
 N2BJ 356,973 463 257 C
 K9DJ 207,480 364 190 C
 K9IA 170,190 305 186 B
 K9MMS 167,010 293 190 C
 K9OR 139,230 255 182 B
 N9OH 132,552 263 168 C
 N9XX 97,920 192 170 B
 K9IJ 88,641 201 147 B
 N9MSG 68,796 182 126 B
 NV8V 40,293 121 111 B
 N9BT 28,350 105 90 C

0
 N0AT 1,417,950 1150 411 C
 K0IR 1,367,460 1284 355 C
 K0KX 1,296,792 1162 372 C
 W0BV 1,017,552 986 344 C
 W0ZA 452,706 766 197 C
 K0UK 435,615 565 257 C
 W0TT 434,973 539 269 C
 KT0R 380,016 464 273 C
 KE0UI 300,348 486 206 B
 AE9B 258,735 367 235 B
 K0XH 168,720 304 185 B
 K0MS 119,856 227 176 C
 WG0M 90,294 202 149 B
 WA2MNO 82,416 202 136 C
 K0AD 79,734 194 137 C
 W0AMT 67,134 167 134 B
 K0CA 48,216 164 98 C
 WB8ZRL 38,628 116 111 C

VE
 VA7NT 808,548 949 284 C
 VA3NR 466,830 546 285 C
 VE6LB 110,880 231 160 C
 VE6TN 40,095 135 99 B

Multioperator Single Transmitter

1
 K11R (+ K1VR, KE1J)
 4,184,544 2912 479 C

WT1T (K1TWF, WO1N, NF1D, W1ES, ops)
 3,561,345 2729 435 C
 N2OT (+WB2EPQ)
 395,481 547 241 B

2
 W2MU (KY2J, WA2JQK, ops)
 2,281,554 1837 414 C
 W2/UR5DEM
 1,173,744 1254 312 B
 WA2UBK (+N2WKS)
 936,672 887 352 C

3
 NE3F (+W3ZL)
 1,954,368 1508 432 C

4
 K4NNN (K4OJ, N4KM, ops)
 3,143,640 2278 460 C
 K9ES (+W4UUM, AD4ES, K3ZM)
 2,267,190 1866 405 C
 W4AUB (+N4AU, K4IZN)
 364,224 542 224 C
 K0LUZ 50,301 207 81 C
 N4ARW (+K4JRP, KA4APA)
 16,740 90 62 B

5
 K5TR (+K5TSQ, KE5C, N5KO)
 3,455,910 2451 470 C
 N5MT 39,840 160 83 C

6
 K6ANP (+N6AD)
 1,352,988 1274 354 C
 KN6Y (+WA6AYI)
 52,614 158 111 B

8
 K8AZ (+K8BL, K8MR, K8PP, N8PW, N8TR, W8BIN, W8CAR, W8GN, W8KIC, WB8K, WT8C)
 4,511,910 2990 503 C
 W8AV (+K4LT, AF8A, K8AJS)
 3,121,092 2223 468 C
 W8EDU (W8WTS, W8RZ, ops)
 989,421 1217 271 C
 WC8VOA (W8ND, W8CDA, W8FEJ, N8MIQ, ops)
 5,472 48 38 B

9
 WN9O (+W9IU)
 2,065,140 1639 420 C

0
 N0NI (+N0AC, WO0V, W0FLS, K0KD)
 2,767,770 2010 459 C
 K0JE (+K0JA)
 164,700 300 183 B
 AF0S (WV7T, N0QJS, N0MUD, ops)
 11,178 81 46 B

VE
 VE3RM (+VE2NI)
 1,252,017 1189 351 C

Multioperator Two Transmitters

K4JA (+K4FJ, K7SV, K9GY, K9JY, W3BP, KE9I)
 9,566,580 5644 565 C
 N3RS (+KF3B, KQ3F, N3ED, N3RD, W8FJ)
 9,527,637 5743 553 C
 K1KI (+K1CC, KM1P, W1RM, W1UK)
 9,069,216 5408 559 C
 N4RV (+K2PLF, WR3Z, N4GG)
 6,399,000 4266 500 C
 K8CC (+DL2HBX, K8JM, NU8Z, W8UA, WD8S, WX3M)
 5,267,520 3540 496 C
 K0TV (+K1HI, K2TE, N1IW, NF1A)
 5,105,232 3516 484 C
 K8LX (+K8LV, N8EA, W8WA)
 4,947,000 3400 485 C
 VE1JF (+VE1AI, VE1JS, VE1RGB)
 4,192,260 3265 428 C
 K6KM (+K2KW, KE7X)
 3,269,370 2626 415 C
 W6OAT (+K2RD)
 1,999,404 1683 396 C
 N0IJ (+AF9T, N0IM, AA0AW)
 1,664,256 1408 394 C
 W1SRG (AG1C, K1RDD, NK1L, ops)
 1,519,398 1494 339 C
 W6NV (+KX7M, N6KJ)
 1,352,214 1473 306 C

Multioperator Unlimited Transmitters

KC1XX (+AD1C, K1AR, K1EA, KC1F, W1FV, K1GQ, KM3T, K6AW)
 13,784,511 7423 619 C
 W3LPL (+K1HTV, W2GG, K3KU, A13M, N3OC, KE3Q, K3RA, K3RV, KD4D, K4ZA, K4ZW.)
 12,682,272 6953 608 C
 K1XM (+NB1B, W1FJ, W1KM, K3NA)
 12,288,051 6861 597 C
 K1TTT (+K1WD, KB1W, K1MK, W1TO, N2OW, K2WR, N2KW, W1EQO)
 9,703,470 5635 574 C
 K1RX (KF1V, N1IX, K1EO, WA1S, KT1V, N1SNB, K1CQ, K1GW, ops)
 9,458,010 5531 570 C
 W4MYA (+K4GAU, K4WMA, KC8FS, NW4V, W4HZ, W4TNX, WA4PGM, WK4Y, WA8WV)
 8,889,030 5235 566 C
 K9NS 8,879,544 5112 579 C
 N2RM (+N2NC, N2VV, W2RQ)
 7,709,394 4961 518 C
 KB1H (+AA1CE, NB1U, K1EBY, N4XR, N1XS)
 6,605,016 4334 508 C
 K5GO (+K0OU, K0VBU, K5ALU, K5LG, K5XK, KM5G, N5CE, N5DX, N5OE)
 6,362,874 3906 543 C
 K5KG (+W4SAA, N4TO, VE7ZO)
 5,854,527 3819 511 C
 N3AD (+K3ZV, N3DXX, AB3AH)
 4,984,560 3440 483 C
 K3NM (+K3IPK)
 4,719,546 3159 498 C
 W0AIH (+K0PC, NA0N, KS0T, AC0W, W0UC, WR0DK, AA0ZZ, K0TG)
 4,427,124 3068 481 C
 W2YC (+WK2W, AA2WN)
 2,929,374 2082 469 C
 K3II (+WF3H, K3CT)
 2,483,859 1939 427 C
 W2CG (+K2WJ)
 985,905 981 335 C

DX Single Operator Africa

Nigeria
 5N0NHD 335,070 765 146 B

Ghana
 9G5ZZ (DL1CW, op)
 260,130 1495 58 B 20
 9G5GA (DL3GA, op)
 147,744 912 54 B 10

Cape Verde
 D4B (4L5A, op)
 5,259,480 5345 328 C

Canary Islands
 EA8CN 783,156 1396 187 B
 EA8/DJ1OJ 587,880 1065 184 B
 EA8BH (N7GN, op)
 4,458,510 4718 315 C
 EA8AVK 153,216 896 57 B 20

Egypt
 SU9NC 299,295 739 135 B

Burkina Faso
 XT2WP (G4BWP, op)
 440,376 2488 59 C 15

South Africa
 ZS1AN 131,100 475 92 B
 ZS6AJS 51,216 194 88 B

Asia
Azerbaijan
 4K9W 5,610 55 34 B

Georgia
 4L1FX 25,194 221 38 B
 4L8A 239,904 714 112 C

Israel
 4X4ARC (4Z5MU, op)
 165,501 497 111 B

4X1VF	12,900	100	43	C	JA3DAY	17,808	106	56	B	Bangladesh	CT1DIE	7,920	66	40	B				
4X4FJ	6,240	65	32	C	JA1XPU	15,795	117	45	B	S21YY	11,211	101	37	B	CT1BWWW	6,270	80	28	B 20
Cyprus					JR7HOD/1	15,435	105	49	B			CT3KU	3,762	57	22	B 20			
P3F (5B4AGN, op)					JG3NKP/1	14,319	111	43	B	Asiatic Russia					Fed Rep of Germany				
1,055,799	1607	219	C		JA3UWB	13,158	102	43	B	RA0FN	57,228	251	76	B	DL3KVR	169,920	472	120	A
5B4/UA9MA	540	18	10	C160	JQ2EHD	11,400	95	40	B	UA9AMF	19,980	111	60	B	DJ3GE	30,294	187	54	A
5B4AHA	16,929	171	33	C 10	JA1AZS	11,340	84	45	B	RA9FLW	14,700	100	49	B	DL2WRJ	21,594	122	59	A
West Malaysia					JO1WIZ	10,812	106	34	B	13,905	103	45	B	DL1LAW	15,912	102	52	A	
9M2/G4ZFE	2,640	80	11	C 40	JA1EJD	10,716	94	38	B	UA9CR	9,348	82	38	B	DK4CU	6,534	66	33	A
Singapore					JA4AQR	10,260	95	36	B	RK9CR	4,620	55	28	B	DL6ABB	4,608	48	32	A
9V1YC	141,408	491	96	C	JE1UKM	8,466	83	34	B	UA0LMO	4,092	62	22	B	DJ0MY	108	6	6	A
Bhutan					JJ4PPK	8,160	80	34	B	UA9APA	2,376	33	24	B	DM3PKK	199,290	490	136	B
A51B (W0GJ, op)	19,557	159	41	B	JA6QDU	7,956	78	34	B	RU0LL	554,925	1057	175	C	DL3ZAI	185,238	502	123	B
United Arab Emirates					JA7ARW	6,960	80	29	B	UA9JKA	114,000	380	100	C	DL9ABM	175,212	471	124	B
A61AJ (T97C, op)	37,380	178	70	C	JR1WYV	6,882	62	37	B	UA0ANW	94,584	563	56	C	DL5KUD	166,410	430	129	B
Bahrain					JA4BAA	6,750	75	30	B	UA9AM	81,900	300	91	C	DK7FP	141,642	387	122	B
A92ZE	60,450	403	50	C 40	JA1PUK	6,240	65	32	B	UA0AZ	38,976	232	56	C	DL0GL (DK3Q, op)	127,116	396	107	B
China					JR3NDM	4,785	55	29	B	UA9FM	33,048	153	72	C	DK5JM	100,368	328	102	B
BW3/UA3VCS	2,640	80	11	B 80	JA2MZ	4,704	56	28	B	RX9WR	19,116	118	54	C	DL4YAO	91,506	302	101	B
Kyrgyzstan					JA2KCY	4,446	57	26	B	RW9QA	18,669	127	49	C	DJ3JD	90,552	308	98	B
EX2X	53,298	329	54	C 20	JA2KPW	3,726	54	23	B	RZ9HG	3,675	49	25	C 40	DL1TH	88,434	289	102	B
South Korea					JR3VFU	2,625	35	25	B	UA0CW	420	20	7	B 40	DK5ZX	77,142	299	86	B
HL1/WX8C	41,400	200	69	B	JM1KNI	1,599	41	13	B	RU0AW	61,776	396	52	C 20	DL9MRF	68,904	264	87	B
HL5UOG	36,312	178	68	C	JE2HCJ	1,428	28	17	B	UA0ACG	50,715	345	49	C 20	DL1DWT	64,974	238	91	B
HL3GOB	5,406	53	34	C	JA2PFO	1,332	37	12	B	UA9OJG	46,971	307	51	B 20	DL9SEV	52,152	212	82	B
Thailand					7N4MXU/3	1,287	33	13	B	UA9LAC	35,190	230	51	C 20	DL2RUG	51,255	201	85	B
E20HHK	528	16	11	B	JH1NXU	792	22	12	B	RU0AT	16,800	140	40	B 20	DL1DTC	43,524	186	78	B
HS0ZDZ	108,402	406	89	C	JA1SJR	759	23	11	B	RX0QA	12,654	111	38	B 20	DL4RCK	39,744	184	72	B
HS0/OZ1HET	32,760	195	56	C	JH7XGN	916,965	1491	205	C	UA0QNV	11,856	104	38	B 20	DL1DTL	37,524	212	59	B
HS0XNO	36	6	2	B 40	JA6GCE	915,000	1525	200	C	UA0SMF	6,840	76	30	B 20	DL4JYT	37,275	175	71	B
E21CJN	20,007	171	39	C 20	J12KVV	780,975	1335	195	C	RU0AE	4,698	58	27	B 20	DM5JBN	32,955	169	65	B
E21EIC	108	9	4	B 10	JR3NZC	554,400	1120	165	C	RZ9IB	4,425	59	25	B 20	DL8HCO	32,562	162	67	B
Japan					JA3USA	293,178	746	131	C	UA0ABB	4,032	48	28	B 20	DL2RTJ	32,364	174	62	B
JR4DAH	112,716	372	101	A	J11EFP	159,300	450	118	C	UA9FGJ	3,042	39	26	B 20	DH1NFL	30,627	249	41	B
JA2AXB	71,982	279	86	A	JA2FSM	89,991	297	101	C	RS0F	125,400	760	55	C 15	DL7VAF	29,700	150	66	B
JH1XUZ	69,687	261	89	A	JA1HP	84,357	309	91	C	UA0FDX	44,145	327	45	C 15	DL1KUR	27,435	155	59	B
JR1NKN	44,160	230	64	A	JA2QVP	37,056	193	64	C	RA9WR	16,275	175	31	C 15	DL8UVG	23,925	145	55	B
7K4QOK (JR2BNF, op)	18,432	128	48	A	JL3JTD	27,450	122	75	C	RW0LIA	3,240	54	20	B 15	DL3KWR	19,488	112	58	B
JA6WFM	13,860	132	35	A	JA5IP	24,024	143	56	C	UA9QFF	351	13	9	C 15	DL1ARD	18,096	104	58	B
JJ1LRD	1,104	23	16	A	JA1CSB	13,635	101	45	C	Kazakhstan					DL5CD	16,740	124	45	B
7K1CPT/1	225	15	5	A	JL1ANP	7,068	76	31	C	UN4PG	17,820	110	54	B	DL6DVU	15,729	107	49	B
JH4UYB	708,948	1257	188	B	JA9CWJ	2,337	41	19	C	UP1G (UN7QX, op)	104,580	415	84	C	DL4AAE	15,594	113	46	B
JH7XMO	587,928	1048	187	B	JA2VQF	840	20	14	C	UP6P	87,612	298	98	C	DL5YL	12,915	105	41	B
JM3CRK	451,008	928	162	B	7J1ABD	462	14	11	C	UN7JX	48,960	320	51	B 20	DL11A	9,990	74	45	B
J11RXQ	361,422	873	138	B	JA8NFV	798	38	7	C160	UN7CZ	13,674	106	43	B 20	DL3KWF	6,120	68	30	B
JF2QNM	164,481	503	109	B	JH2FXK	390	26	5	C160	UN4PD	8,568	84	34	B 20	DL7VRG	4,512	47	32	B
JA5JCC	158,496	508	104	B	JE1SPY	156	13	4	B160	UN7CN	6,570	73	30	A 20	DL9JSO	1,995	35	19	B
JA9XBW	148,680	420	118	B	JM1LRQ	3,627	93	13	B 80	UN6G	5,829	67	29	B 20	DJ6QO	1,320	22	20	B
JR4PMX/1	138,105	465	99	B	JR0BQD	2,736	76	12	B 80	UN9LN	1,512	36	14	B 15	DL3TD	1,930,845	2627	245	C
JH0NVX/1	135,141	421	107	B	JH1AEP	87,291	549	53	C 40	Hong Kong					DL1YD	748,068	1292	193	C
JR7UOL	114,492	406	94	B	JM2RUV	32,490	285	38	B 40	VR2BG	61,236	252	81	C	DL6FBL	676,338	1334	169	C
JF2BDK	111,192	328	113	B	7M4CLF	27,192	206	44	B 40	India					DL3YBM	613,173	1093	187	C
JN1NOP	98,553	361	91	B	JL6IPK	4,641	91	17	B 40	VU3BKY	3,969	49	27	B	DK6WL	393,084	732	179	C
JG3LGD	82,584	296	93	B	JA1KVT	2,754	51	18	B 40	Europe					DL4WA	364,446	794	153	C
JA2IU	71,928	296	81	B	JH2OMM	594	22	9	B 40	ITU HQ					DL7NS	302,364	681	148	C
JP1SRG	63,888	242	88	B	JA3ZP	456	19	8	A 40	4U1ITU (OM3CGN, op)	1,807,308	2469	244	C	DL5YM	162,030	491	110	C
JA1TCF	61,788	271	76	B	JH1AZO	34,020	252	45	C 20	Croatia					DL3BRC	152,478	394	129	C
JA1CP	55,845	255	73	B	JH0EPI	8,178	94	29	B 20	9A2EY	26,901	147	61	A	DL5FU	136,617	403	113	C
JA1CPZ	50,841	269	63	B	JG7PSJ/7	576	16	12	B 20	9A6C	48,240	201	80	B	DL2DX	130,659	449	97	C
JA2VZL	50,778	217	78	B	JH3AIU	140,292	866	54	C 15	9A3CY	19,110	130	49	B	DL7CX	103,032	324	106	C
JA1RKI	50,388	221	76	B	JA9PPC	118,260	730	54	C 15	9A3QB	11,388	73	52	B	DL5ME	81,972	276	99	C
JQ1COB	46,662	202	77	B	JA7NVF	116,586	762	51	C 15	9A3B	17,100	190	30	C 80	DJ2BC	53,628	218	82	C
JF2OZH	44,946	227	66	B	7K4XNN	89,994	566	53	B 15	9A3IQ	166,344	956	58	C 40	DP1POL (DL5XL, op)	38,805	199	65	C
JA1BIU	44,280	205	72	B	JA5APU	39,690	270	49	C 15	9A4D (9A2AJ, op)	112,590	695	54	C 40	DL3YA	21,600	150	48	C
JH1FNU	39,330	230	57	B	JR4GPA	36,720	272	45	B 15	9A4U (9A4MF, op)	7,650	102	25	B 40	DJ3TF	1,440	32	15	C160
JA2KKA	34,773	173	67	B	JR9NVB	28,620	212	45	B 15	9A1CZZ (9A2DM, op)	4,968	72	23	B 20	DJ0MDR	43,992	376	39	C 80
JH2NWP	34,650	165	70	B	JA9VOK	22,575	215	35	B 15	9A5Y (9A3NM, op)	189,312	1088	58	C 15	DK7AN	4,176	58	24	B 80
JA1IZ	33,654	158	71	B	JA1MZM	22,560	188	40	B 15	9A7DM	69,138	501	46	C 10	DK2GZ	1,776	37	16	B 80
JA6CYL/6	30,615	157	65	B	JA1EM	12,546	123	34	B 15	9A5M (9A3LM, op)	14,400	150	32	B 10	DL1ASA	59,643	423	47	C 40
JA1XUJ	30,420	169	60	B	JJ1GQH	10,593	107	33	B 15	Malta					DL6SN	34,932	284	41	C 40
J10VWL	28,728	152	63	B	JE1RRK	9,180	102	30	B 15	9H1ZA	707,445	1185	199	C	DJ2YE	4,680	78	20	B 40
JK8NLB	26,784	144	62	B	JJ1IVX	4,524	58	26	A 15	Andorra					DK2ZO	1,008	21	16	B 40
JA1HG	26,352	144	61	B	JL7AIA	3,300	44	25	B 15	C31LJ (AC6WM, op)	495,600	944	175	B	DL1DQY	240	10	8	A 40
JA3PYC	25,758	162	53	B	JJ4CDW	1,440	30	16	B 15	Portugal					DL8OBD	61,776	396	52	B 20
JE1REU	25,560	142	60	B	JF1SQC	34,650	275	42	B 10	CT3KN	85,833	289	99	B	DJ5GG	22,932	182	42	B 20
JH1BCS	18,765	139	45	B	JG2TKH	21,24													

Spain				F8DEZ	11,205	83	45	B	HA8CQ	37,989	189	67	B	Sardinia												
EA7AAW	16,884	134	42	A	F5DM	9,450	90	35	B	HA3OU	10,125	75	45	B	IS00MH	250,710	610	137	B							
EA7KJN	5,049	51	33	A	F2FX	1,170	26	15	B	HA5AGS	442,992	839	176	C	IS0IGV	210,273	527	133	B							
ED7AJR	495,990	1002	165	B	F6BEE	2,754,360	3279	280	C	HA0HW	228,060	543	140	C	IS0RDY	92,040	295	104	B							
EA4DRV	339,384	716	158	B	F5RAB	241,380	540	149	C	HG8C (HA8EK, op)																
EA1WX	314,415	685	153	B	F5OIH	197,532	531	124	C	HA8JV	53,016	376	47	C	80	Norway										
EA1CS	206,322	502	137	B	F5BBD	127,566	373	114	C	HA8DL	16,830	187	30	C	80	LA5EKA	2,346	34	23	A						
EA7RM	159,732	493	108	B	F5YJ	57,000	190	100	C	HA9SU	105	7	5	B	80	LA9JM	221,844	556	133	B						
EA5EOH	126,945	403	105	B	F5VHJ	23,517	117	67	C	HA8MD	153,105	865	59	C	40	LA9DFA	186,675	475	131	B						
EA3AXM	60,333	221	91	B	F5RDS	1,620	30	18	C	HG4I	90,630	570	53	B	40	LA7SI	40,014	171	78	B						
EA7CA	39,546	169	78	B	F6FGZ	6,525	87	25	C160	HA8A	80,772	508	53	C	40	LA9DK	2,484	36	23	B						
EA3AVV	39,105	165	79	B	F6EPO	8,784	122	24	B	80	HA5FA	80,550	537	50	C	40	LA7MFA	501,714	978	171	C					
EA5BXH	34,164	146	78	B	F5IN	198,012	1138	58	C	15	HA8KCS (HA8FY, op)															
EA3RE	29,346	134	73	B	F6IRF	149,016	887	56	C	15	4,290	65	22	B	40	LA2O	488,376	952	171	C						
EA1ND	17,985	109	55	B	F5NBX	118,455	745	53	C	15	HG8W (HA8ZO, op)															
EC3AJL	15,729	107	49	B	England				G0DCK	223,740	565	132	A	HA8FK	69,600	464	50	C	20	LA2O	241,173	633	127	C		
EA1FBJ	9,729	69	47	B	G0DCK	223,740	565	132	A	G3YMC	125,832	392	107	A	HA9PP	66,900	446	50	B	20	LA9HW	97,776	582	56	C	
EA3FM	7,680	64	40	B	G3YMC	125,832	392	107	A	M8C (G4DBL, op)																
EA5FV	2,426,970	3185	254	C	264,480			608	145	B	G3KKP	259,200	600	144	B	HA3M	140,454	867	54	C	15	LA6PB	13,566	133	34	C
EA5YU	1,141,023	1721	221	C	G4KFT	219,492	546	134	B	G0UKX	165,300	475	116	B	HA3NU	116,640	720	54	C	15	LA6PB	3,762	57	22	A	
EA1FD	490,212	918	178	C	G4PIQ	98,262	309	106	B	G3YJQ	90,846	309	98	B	HA8IH	96,696	632	51	B	15	Luxembourg					
EA5BY	323,442	714	151	C	G3RSD	87,312	272	107	B	G4KXG	70,470	270	87	B	HA8VK	91,692	566	54	C	15	LX1JH	31,200	160	65	B	
EA7GSU	25,530	230	37	C	G4IUF	68,808	244	94	B	G0MRH	63,120	263	80	B	HA1ZH	57,387	407	47	B	15	LX1NO	38,400	200	64	C	
EA4BWR	13,500	125	36	B	G0N9LYE	62,400	260	80	B	G3YEC	41,814	202	69	B	HA8VJ	57,387	407	47	B	15	Lithuania					
EA4WC	1,392	29	16	B	G0AEK	35,997	169	71	B	G3JJZ	35,721	147	81	B	HA3LI	45,816	332	46	B	15	LY2MM	48,792	214	76	B	
EA7KJ	49,914	354	47	B	G3JZ	35,721	147	81	B	G4SLE	35,259	161	73	B	HA5BA	4,824	67	24	B	15	LY2TE	46,860	220	71	B	
EA5HT	32,250	250	43	C	M4T (G0VQR, op)	21,147	133	53	B	G4KTI	14,112	96	49	B	HA8LKD	43,344	344	42	B	10	LY3BA	254,259	657	129	C	
EA1AK/7	25,422	223	38	B	G4KTI	14,112	96	49	B	G0MBQ	9,240	70	44	B	Switzerland											
EA3ALV	15,300	150	34	B	G0MBQ	9,240	70	44	B	M5ACR	1,008	21	16	B	HB9BMY	178,920	497	120	A		LY5A (LY2PAJ, op)	126,324	726	58	C	
Balearic Islands				EA6NB	290,433	677	143	B	EA6BF	509,760	944	180	C	Italy												
Ireland				EI4CF	93,849	287	109	B	EI4DW	224,895	517	145	C	I1BAY	251,424	582	144	A	Bulgaria							
Moldova				EI4BZ	209,922	1186	59	C	20	ER5OK	12,420	90	46	A	I3BBK	171,717	481	119	A	LZ2RS	139,536	456	102	A		
Estonia				ES5FRAH	60	4	5	B	ES5TV	20,298	199	34	C	80	I0ZUT	128,700	390	110	A	LZ7X	121,878	333	122	A		
Belarus				EU1XX (EU1CC, op)	4,788	57	28	B	EU1SA	91,956	316	97	C	80	IK2WXV	571,356	1076	177	B	LZ1AQ	138,060	354	130	B		
France				F6FTB	103,494	367	94	A	F5ADH	13,356	106	42	A	80	IT9ORA	201,144	493	136	B	LZ2BE	102,000	340	100	B		
Germany				F5LQJ	75,330	279	90	B	F8AAAN	50,394	227	74	B	80	I0JFE	170,586	486	117	B	LZ2UJ	38,160	159	80	B		
United Kingdom				F8AJR	495,990	1002	165	B	F5MLJ	48,510	210	77	B	80	I1NVU	126,324	348	121	B	LZ1NJ	30,336	158	64	B		
Italy				F5YJ	57,000	190	100	C	F5VHJ	23,517	117	67	C	80	IK2NUX	124,260	380	109	B	LZ1FJ	8,778	77	38	B		
Spain				F5RDS	1,620	30	18	C	F6FGZ	6,525	87	25	C160	80	IK6QIN	86,010	235	122	B	LZ2PL	323,466	754	143	C		
Switzerland				G0MRH	63,120	263	80	B	G0N9LYE	62,400	260	80	B	80	IK2WYI	55,188	219	84	B	LZ5ZI	75,951	261	97	C		
Northern Ireland				G0N9LYE	62,400	260	80	B	G3BFP	59,415	233	85	B	80	IK2NCF	42,750	190	75	B	LZ1JZ	45,240	260	58	C		
Jersey				G3BFP	59,415	233	85	B	G0RDO	54,780	220	83	B	80	IK3SCB	31,824	208	51	B	LZ2L (LZ2LDS, op)	7,128	108	22	C		
Manx				G0RDO	54,780	220	83	B	G4ZME	48,954	199	82	B	80	IK2JUB	28,215	165	57	B	LZ3PZ	12,006	138	29	B		
Channel Islands				G4ZME	48,954	199	82	B	G3YEC	41,814	202	69	B	80	IV3DYS	16,005	97	55	B	LZ2FM	726	22	11	B		
France				G3YEC	41,814	202	69	B	M0AEK	35,997	169	71	B	80	I0YQV	15,453	101	51	B	LZ1IQ	15,912	136	39	B		
Germany				M0AEK	35,997	169	71	B	G3JJZ	35,721	147	81	B	80	IK2AIT	11,592	92	42	B	LZ1EP	7,740	86	30	B		
Italy				G3JJZ	35,721	147	81	B	G4SLE	35,259	161	73	B	80	IK3ORD	9,840	82	40	B	LZ1NYK	1,248	26	16	A		
Spain				G4SLE	35,259	161	73	B	M4T (G0VQR, op)	21,147	133	53	B	80	IK1SPR	9,198	73	42	B	LZ7H	2,754	51	18	B		
Switzerland				M4T (G0VQR, op)	21,147	133	53	B	G4KTI	14,112	96	49	B	80	IT9GXE	8,568	68	42	B	LZ2GS	17,316	156	37	B		
Northern Ireland				G4KTI	14,112	96	49	B	G0MBQ	9,240	70	44	B	80	IZ2DMW	5,883	53	37	B	LZ1ZP	11,760	112	35	B		
Jersey				G0MBQ	9,240	70	44	B	M5ACR	1,008	21	16	B	80	IV3KSE	5,568	58	32	B	LZ2GTR	5,775	77	25	B		
Manx				M5ACR	1,008	21	16	B	G3UFY	1,018,248	1672	203	C	80	IK2RLS	960	20	16	B	LZ1S	4,002	58	23	B		
Channel Islands				G3UFY	1,018,248	1672	203	C	G3ORY	749,340	1380	181	C	80	IO4T (IK4ZHH, op)	1,098,090	1743	210	C	Austria						
France				G3ORY	749,340	1380	181	C	G0MTN	633,930	1243	170	C	80	IV3LZQ	152,055	465	109	C	OE1BKA	17,688	134	44	B		
Germany				G0MTN	633,930	1243	170	C	G3XTT	621,000	1125	184	C	80	IK2SND	103,950	315	110	C	OE5CWL/5	672,525	1281	175	C		
Italy				G3XTT	621,000	1125	184	C	G0WKW	308,163	739	139	C	80	IU3A	39,366	243	54	C	OE3JOS	192,000	500	128	C		
Spain				G0WKW	308,163	739	139	C	G3TXF	136,620	396	115	C	80	IK4AUJ	18,084	137	44	C	OE2LCM	60,858	441	46	C		
Switzerland				G3TXF	136,620	396	115	C	G4BJM	36,354	146	83	C	80	IV3YDD	6,018	59	34	C	Finland						
Northern Ireland				G4BJM	36,354	146	83	C	G4VGO	7,125	95	25	B160	80	IK4MGP	5,355	85	21	C160	OH2FS	80,784	306	88	B		
Jersey				G4VGO	7,125	95	25	B160	G0IVZ	101,100	674	50	C	80	IU3X (IV3SKB, op)	150,138	878	57	C	OH5YU	72,261	259	93	B		
Manx				G0IVZ	101,100	674	50	C	G4IY	17,661	203	29	B	80	I2B (I22BKC, op)	81,276	521	52	C	OH2LO	9,576	76	42	B		
Channel Islands				G4IY	17,661	203	29	B	G4BUO																	

HG1S (HA1TJ, HA1DAE, HA1DAC,
 HA1DAI, HA1AG, HA3LN, HA1AH,
 HA1SN, HA1AR)
 2,457,036 3126 262 C
 OM7M (+OK2BFN, OM3PA, OM5RW,
 OM5ZW, ops)
 2,354,160 2885 272 C
 IR4A (IZ8AJQ, I4IKW, IK4DCT,
 I4VEQ, ops)
 1,637,559 2363 231 C
 DL0DX (DL5JS, DL5KUT, DK2OY,
 ops)
 1,116,378 1707 218 C
 OM4A (OM4EX, OM4XA, OM4DW,
 ops)
 1,079,820 1714 210 C
 4N7M (YZ7EM, YT7AW, ops)
 897,408 1558 192 C
 DF0LI (DK7YY, DL7FER, ops)
 742,896 1232 201 C
 ED2JJ (EA2CK, EA2AJX, EA2CHT,
 EC2AQO, EA2AIJ, ops)
 697,884 1244 187 B
 SN7L 319,704 692 154 B
 RL3A (RV3BA, RW3FO, RX3APM,
 ops)
 181,152 444 136 C
 3Z0PRK (SP9ADU, SP9-1753, ops)
 165,888 432 128 B
 OM3KZA (OM3CUG, OM6FM,
 OM3TPN, ops)
 153,216 448 114 B
 HA6KZS (HA6ZS, HA6WT, HA6IGM,
 +ops)
 116,160 352 110 C
 UR4LWY (UR5LJC, UR4LQA, US-L-
 1012 Ops)
 68,724 249 92 C
 US0Q (UR3QT, UT2QT, ops)
 58,608 264 74 C

ES1XT (ES1CR, ES2JL, ES1DG, ops)
 45,114 206 73 B
 YO6KNY (YO6DBA, YO6ADW, ops)
 4,959 57 29 B
North America
 ZF2NT (N6NT, VE3DZ, ops)
 5,949,768 5816 341 C
 V47WW (AC8W, K8DD, ops)
 2,410,545 2965 271 B

South America
 9Y4TBG (DL6RAI, IV3IYH, ops)
 5,602,182 5591 334 C
 PJ4G (K2NG, K2TW, NO2R, ops)
 5,165,532 5364 321 C
 PJ2T (W8TK, WA9S, W9EFL, W0CG,
 W0NB, ops)
 5,152,284 5142 334 C

Multioperator Two Transmitters
Asia
 JH5FXP (+JA5FBZ, JA5FDJ, JR5JAJ)
 1,787,256 2472 241 C

Europe
 9A7A (9A4RX, 9A3OS, 9A7V, 9A8A,
 9A3TR, 9A6DM, ops)
 3,239,502 3941 274 C
 HG6N (HA2NA, HA2SX, HA3OV,
 HA6ND, HA6NF, HA6NL, HA6NY,
 HA6ON, HA6PX, YO5BRZ,
 2,662,983 3401 261 C
 RU1A (RW1AC, RV1AW, RX1AA,
 RU1AA, UA1ARX, UA1AKC,

RA1AIP, ops)
 2,201,580 2718 270 C
 LZ9W (LZ1ANA, LZ1PM, LZ1ZD,
 LZ2HM, LZ3SM, LZ5VK, ops)
 1,729,308 2422 238 C
 DL1MGB (DH1TW, DJ5CL, DL4RDJ,
 ops)
 357,435 705 169 C
 YO3KYO (YO3FLQ, YO3GCL, ops)
 93,888 326 96 B

North America
 VP5LP (K3LP, N3SB, N7DD, WX3B,
 ops)
 7,891,914 7603 346 C
 6D2YFM W5SB, K5ZTY, N1LN, N05W,
 XE1YDB, N5DO, XE1YFM, N6MU,
 W5MJ, K5NZ)
 6,840,444 6746 338 C
 V31YN (+V31FG)
 1,798,920 2104 285 B

Multioperator Unlimited
Transmitters

Asia
 JA3YBK (JH3PRR, JG3KIV, JH4NMT,
 JR4ISF, JF4FUF, ops)
 2,476,671 3139 263 C

Europe
 CS6V (DL4LQM, DL5AXX, DL5LYM,
 DL8WAA, ops)
 5,913,303 6179 319 C
 9A1A (9A5W, 9A5E, 9A6A, 9A7R,
 9A4WW, 9A8W, S51R, 9A9A, ops)
 4,331,151 4861 297 C

RW2F (RA2FA, RN2FA, RV2FW,
 UA2FB, UA2FF, UA2FZ, ops)
 3,050,784 3531 288 C
 HG3DX 2,646,270 3267 270 C
 RO4M/6 (RN6BN, RA6AX, RA6CO,
 RA6CM, RU6CQ, RN6AA, RA4LZ,
 RA4LW, RU4HP, ops)
 2,209,662 2698 273 C
 OZ5W (+OZ1FTU, OZ1KRF)
 1,794,672 2472 242 C
 8S5X (SM5HJZ, SM5AJV, SM0GNS,
 SM0OGQ, SM0IHR, SM0HPL,
 SM5DJZ, op)
 1,648,746 2271 242 C
 LY7A (LYR346, LY2HK, LY4AA,
 LY2UF, LY2OC, LY3DA, LY1DF,
 LY1EE, LY2NK, ops)
 1,166,160 1808 215 C
 S59DKR (S52GP, S57KM, S57XX,
 S58MU, S59ZZ, ops)
 472,884 1004 157 C

North America
 TI5N (KI7Y, N7MQ, K7AR, TI2WGO,
 ops)
 6,453,540 6460 333 C

Checklogs: DF3OL, DL5NA,
 EA1BRB, HA3MB, K6VL, LA6XF,
 NG7Z, OK1DSU, OK2BOV, OM5LR,
 OZ6TL, PA0RBO, PY2OTV,
 PY3GAD, RV3QX, RZ3BY/0,
 SM6DUA, SP1EG, TI3TLS, UU5A,
 VE1ACU, W7LBV, WA2QQF