

2003 ARRL International DX Phone Results

As the World Series unfolds, so too does contest season. Contesting continues to grow in popularity with every passing year. This year's DX Phone contest saw another increase in participation with 1344 entries from the US and Canada and 917 DX logs in the pot. Judging from KC1XX's QSOs on 15 meters—the highest band total of any US or VE station—there were at least 2178 DX stations on the band. IK4UPB at D44TD managed 3705 US and VE QSOs, also on 15 meters. That's a lot of contesters! How many other sporting events that you know of with 6000 players on the field at the same time? That would make for an interesting game, wouldn't it?

WWW

Last year we were effusive with good words for the conditions that had held up for both the CW and Phone weekends of the contest. The Law of Averages being a powerful thing, it was probably unreasonable to expect a repeat of last year and conditions did move in the direction of the solar cycle—downwards, that is, as you can see from the following comparison of the Day1/Day2 indices:

2002—Solar flux was 191/183 while the average A_p was 5/10 and K was 1.6/2.5
 2003—Solar flux was 138/147 while the average A_p was 14.5/11 and K was 2.8/2.6

Just the flux difference alone made for quite a difference on the 15 and 10 meter bands. The more disturbed conditions on the first day got everyone off to a rough start without significant improvement on the second day to make up for lost ground. An M-class X-ray flare and other associated disturbances drove the A_p index to nearly 50 and the K to 5. This didn't bode well for long-haul polar paths over the weekend.

Conditions were somewhat disturbed on both days and more storminess occurred on the day following the contest. In fact, since February and March, there have been few extended periods of calm conditions, typical of the "back porch" period following the peak of the solar cycle.

Profiles

WP3R

The first profile this time is not of a

person, but of a station. If you've been working the contests over the last couple of years, you've put WP3R in your log a lot of times. The station Jim Breakall, WA3FET, and Angel, WP3R, put together has been causing a walnut shortage among plaque manufacturers. Rich, KE3Q, has flown WP3R to big Sweepstakes wins on both modes in 2002 and in 2003 Paul, K9PG, has done the same in ARRL DX.

Let's you think this is some kind of super-villa with limo service and cool drinks around the pool, check out the photos on the Web write-up. This is pure radio. While the personal accoutrements may be "rustic," the antennas on "Mount Breakall" are first class, as the front-ends of receivers around the world can attest. Does "Breakall" refer to records?

W4IX

John, W4IX, is an up-and-coming operator from the Florida Contest Group and boy, do they seem to be cranking out the operators down there! It must run in the family, his dad is K4MM, a familiar call to many contesters. John not only took the national title in the tough Single-Op All-Band Low-Power category, but had the highest accuracy in the category with an error rate of only 0.5% and a final QSO total of 1677.

Exceptional Performances

Operating from WP3R, Paul, K9PG, made the top score in both modes this year to take the World Combined Score trophy. It's hard enough to win one mode, but to prevail in both against the best operators in the world is special. Paul also had an amazing hour in which he made 460 QSOs, surpassing N5TJ's old high-water

mark of 457—more than seven QSOs per minute.

While it's easy to complain about the East Coast's "aluminum curtain," it should be noted that all three of the single-band winners on the high bands are from the West or Southwest. W5PR from STX prevailed on 10 meters. N7DD owned 15 meters from Arizona. W7WA upped his own record on 20 meters from Washington state.

It's hard to deny the disadvantage faced by Asian stations. Out of the 120 calls listed in the DX Top Ten listings, only 5 are from Asia. A tip of the analytical eyeshade to JR4DAH, JA2MWV and JA6WFM from the single-op QRP ranks, JS2LGN (op JA7KAC) on 40 meters and JA3YBK in the multi-multi category.

US and VE Overview

We didn't have to deal with extreme weather this year across the eastern half of the country this year, but the shift in conditions made strategy doubly important. Poorer propagation favors those with better antenna farms and I believe this may account for fewer tight 1st-2nd-3rd place races than last year. Nevertheless, several down-to-the-wire finishes were noteworthy.

In a battle of the Multi-Multi titans, KC1XX's team held off a very strong challenge from the W3LPL crew to take the category by 4.8%, 11.998M to 11.426M. These top scoring stations are a benchmark for participation and conditions, so if we compare last year's (19.6M) and this year's KC1XX scores, we might estimate that conditions were only 57% as good this year.

While K8AZ's skilled team walked away with the Multi-Single title by 21%, the ops down at K5NA in STX held on for a 0.4% squeaker over KY2J in ENY, hotly pursued by NØNI's Fighting Lowans only 1.0% back.

Another photo finish came in the Single-Op Assisted category where low-power entrant K2PS (SNJ) traded QSOs against multipliers to edge K4UTE (NFL) by only 0.8%.

While VY2ZM (op K1ZM) and KQ2M placed a strong 1st and 2nd in Single-Op All-Band High-Power, the 3rd through 6th place competitors VE3EJ, K1TO, K3ZO and N9RV were separated by only 4.0%. Any surprise that all of these operators are WRTC ops or judges?

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.



John, W4IX, talked his way to a national SOAB-LP win with great accuracy as well.

US-VE High Power: You'd better be prepared if you want to compete in this category! This year, the competition really took off above 900k.

Jeff, K1ZM, steered his new station on Prince Edward Island to a convincing 14.8% win over last year's champ, Bob, KQ2M, running a strong second. There's no truth to the rumor that you can see the Eiffel Tower from the top of Jeff's towers, but there isn't much except the briny deep

to the east of his backyard until the Gulf Stream turns south again. The tight cluster of VE3EJ, K1TO, K3ZO and N9RV made things really interesting for each other and kept right on Bob's heels.

US-VE Low Power: Florida Contest Group member John, W4IX, piloted his SFL station to a big win with 1.8M, easily outdistancing the rest of the pack. Grouped tightly, the pack was led at 2nd place by a nice effort from Doug, N5WA, in STX, the most westerly station until N6NF in the 16th slot. N1SV in EMA and KS1J in RI fought to a near-draw with only 2.5% between their scores. The remainder of the Top Ten are sprinkled across the East Coast, WV and IN sections.

US-VE QRP: Among the QRP All-Band scores there is N4KG and then there is everybody else. Tom just flat out ran away from the pack again this year, scoring 726k points from Alabama—he's way off to the right of the score chart below. Behind Tom, WB3BEL, N1TM, VE3KZ and WA8ZBT had a pretty good battle with scores of 204k, 182k, 169k and 144k for 2nd through 5th places, respectively. Running QRP in a DX

phone contest with disturbed conditions is a character-building experience!

US-VE Assisted

The Assisted category continues to grow with 214 logs submitted and is very competitive. Noah, K2NG, who didn't even enter last year's contest, showed up with 3.88M and took the top spot from the 1st and 2nd place finishers in 2002, K3WW and W2RE. Chas, K3WW, drops to third this year behind Ray, W2RE, in 2nd place and Saul, K2XA, placed fourth. The difference between the top four scores was between 4% and 5%.

US-VE Single-Band

Single-band logs were down this year with 189 entries. 10, 20 and 40 meters suffered, but 15, 80 and 160 were up. Look for more single-band entries in the coming years as the pickins get slim above 20 MHz and more DX is available on the low bands.

10 meters: Not the favorite band for single-ops this year, but still a very popular band overall, the 10 meter crowd kept this band hopping with 30 stations making

Top Ten W/VE

Single Operator High VY2ZM (K1ZM, op)

KQ2M	5,150,781
VE3EJ	4,389,072
K1TO	3,811,926
K3ZO	3,795,000
N9RV	3,720,525
W9RE	2,876,850
W3BGN (W2BGN, op)	2,860,440
AA1K	2,794,173
K5TR	2,694,654

Single Operator Low

W4IX	1,870,176
N5AW	1,158,822
N1SV	1,045,200
KS1J	1,019,472
N8II	930,624
N4TZ	926,073
N1UR	920,334
WA1SN	887,040
W1CTN	812,436
N4IG	805,164

Single Operator QRP

N4KG	725,952
WB3BEL	203,907
N1TM	182,178
VE3KZ	168,516
WA8ZBT	144,414
N8IE	128,583
K4WY	107,940
KK0Q	107,448
KG5U	102,366
W1AMF	100,548

Single Band 10

W5PR	468,720
K4WI	425,712
K9BGL	168,168
K7BV	132,840
W2RD	129,195
W2KV	91,632
K4JLD	85,557
N0HF	78,876
K1VSJ	76,860
W7UPF	74,256

Single Band 15

N7DD	567,732
KV0Q	482,397
N3HBX	319,176
N5TW (KC5YKX, op)	310,068

WW5S (@N6RO)	272,538
WW4LL	231,363
VO1MP	211,464
W6AFA	193,626
N8BJQ	188,100
K6HNZ	178,785

Single Band 20

W7WA	577,866
WA2QNW	420,360
VE3DZ	284,886
NQ4I	247,248
W0YR/4	82,104
W7FP	75,600
K9CAN	66,555
WA1MKS	49,470
WY3T	48,111
K7LVJ	39,798

Single Band 40

N4PN	110,880
W2MF	67,440
N2WVV	59,850
K8DJC	32,844
K2UOP	29,673
WQ2M	28,086
KS0T	26,715
AD8C	25,740
N9QX	23,040
AD8J	22,446

Single Band 80

AA1BU	121,512
KT1V	118,404
K6OY	18,612
AA4MM	17,172
N6RO	13,572
W7CB	10,458
W5FO	7,350
W0YG	5,568
K8MD	4,998
N6HY	2,346

Single Band 160

K5RX	5,661
KK4SI	2,790
W2VO	2,520
W3GH	1,587
NA4W	969
K9HUY	768
K6SE	270
N6TR	108

Single Operator Assisted

K2NG	3,879,696
W2RE	3,683,520

K3WW	3,497,868
K2XA	3,346,962
W4NF	2,553,348
K5KG	2,072,442
W2GDJ	2,058,588
WE2F	1,872,234
NO2R	1,806,525
AA3B	1,781,643

Multioperator Single Transmitter

K8AZ	3,893,400
K5NA	3,062,688
KY2J	3,050,475
N0NI	3,020,841
K8CC	2,830,884
K2KQ	2,440,473
VE3RM	2,160,300
K2DM	2,138,934
W5KFT	2,041,020
NE3F	1,983,462

Multioperator Two Transmitters

K4JA	8,444,799
N3RS	7,295,280
N2NT	6,306,300
VE1JF	3,338,424
NK7U	3,246,831
AA5NT	2,944,308
W6NV	2,417,436
N5YA	2,350,908
K1KI	2,276,724
K6IDX	1,948,260

Multioperator Unlimited Transmitters

KC1XX	11,997,834
W3LPL	11,426,283
K9NS	8,523,369
W4MYA	7,157,916
W1FJ	7,036,623
K1RX	6,753,834
W2FU	5,631,246
W3PP	5,566,686
K1TTT	5,454,225
N2RM	5,404,620

DX

Single Operator High

WP3R (K9PG, op)	9,650,745
8P1A (W2SC, op)	9,272,472
D4B (4L5A, op)	7,604,190
KH7X	7,370,550

EA8BH (OH2BH, op)	7,096,209
V47KP (W2OX, op)	6,224,640
WP2Z	6,117,444
CN2R (W7EJ, op)	5,606,205
ZF2DQ (K0DJ, op)	5,348,814
LU1NDC	2,598,732

Single Operator Low

V26P (W5AJ, op)	5,420,727
VP9/W6PH	4,344,684
J88DR	2,945,277
XE2AC	2,201,418
KH6/K2PLF	2,024,760
LT5H (LU2HF, op)	1,378,080
CO2JG	1,282,365
LV7H	1,151,376
CT1EAT	1,111,038
LV0N	1,037,568

Single Operator QRP

T15N	1,944,441
HI3TEJ	1,255,881
HC1HC	704,436
LU3DR	305,802
F5BEG	192,924
JR4DAH	81,771
JA2MWW	31,110
JA6WFM	28,014
G0DCK	26,100
DF1DX	25,821

Single Band 10

ZY5G	539,667
CX5BW	525,027
PX2W	515,160
LU1HF	481,473
LU6ETB	476,718
CX48C	423,030
CE4Y (CE4FX, op)	89,817
LO7H	396,540
PY2TO	377,010
PY1AK (IV3GKE, op)	363,240
LO7H	349,164

Single Band 15

D44TD (IK4UPB, op)	666,900
ZF2AH	641,964
ZX5J	431,460
CT1BOP	369,294
DK2OY	349,530

SO2R (SP2FAX, op)	329,760
IY4W (I4LEC, op)	321,963
IK2DUU	303,300
OH4XX	298,620
DF9ZP	289,800

Single Band 20

PY0FF	398,940
YV5LIX	330,282
7S2E (SM2DMU, op)	320,433
DJ7EO	300,120
LT0H (LU3HY, op)	298,080
IU9S (IT9BLB, op)	295,020
XE1L	235,800
PY2NY	229,680
YV5OIE	221,940
IT9STX	216,672

Single Band 40

YV5OHV	198,882
OK1RI	165,474
GW7X (GW4BLE, op)	138,264
EA1DLU	121,128
LX7I (LX2AJ, op)	84,036
SP6IXF	64,584
YZ9A	60,480
ZX3S	59,784
JS2LGN (JA7KAC, op)	50,643
TG9ASO	50,337

Single Band 80

FM5GU	224,082
YV3AZC	170,694
CO8ZZ	123,816
YV4FZM	116,928
OR3T (ON4UN, op)	89,817
I4AVG	53,325
S50O	25,056
SP3KFH (SP3JHY, op)	22,236
ER0ND (UT7ND, op)	20,460
YY5YMA	19,647

Single Band 160

YV5MBX	16,539
KV4FZ	15,180
RN6BN	1,092
GW0GEI	660

DL7CX	510
UX5NQ	126
LY2OU	12

Single Operator Assisted

TO1A (IK2QEI, op)	6,295,320
ZX2B (PY2MNL, op)	1,629,504
LY7Z (LY2TA, op)	1,449,723
YT7A (4N7DW, op)	1,055,760
DL6FBL	1,051,650
OZ1ADL	657,675
OH6NIO	510,876
CT3EE	385,050
IK0YVV	382,848
LW5EE	347,616

Multioperator Single Transmitter

FY5KE	8,890,704
VP5B	8,556,132
VP5A	8,322,048
9Y4TGB	7,703,535
HU1A	7,175,067
TM5C	4,384,065
6Y8Z	4,346,298
KH6RR	4,058,100
V31QA	3,922,539
OA4O	3,793,458

Multioperator Two Transmitters

PJ2T	13,061,412
6D2YFM	9,564,027
V26DX	5,251,914
T18/K4UN	4,505,457
9A7A	3,511,200
HG6N	2,822,004
RU1A	2,400,717
DH1NFL	2,163,078
LZ9W	1,300,032
PY3MHZ	1,253,364

Multioperator Unlimited Transmitters

9A1A	4,042,020
IR4X	3,832,488
RW2F	3,061,575
JA3YBK	2,744,508
OM0M	842,604
LY7A	708,954

Records Set during the 2003 ARRL International DX Phone Contest

Category	Call District	Call	New Record	Old Record	Year Set
SOAB-HP	6th	N6IG	2.633 M	2.511 M	2000
SOAB-LP	4th	W4IX	1.870 M	1.456 M	2000
SOAB-QRP	4th	N4KG	725.9 k	628 k	1991
SO-20	7th	W7WA	578 k	451 k	1987
MS	4th	K4JA	8.445 M	4.332 M	1984
Category	Continent	Call	New Record	Old Record	Year Set
SOAB-HP	Africa	D4B (op 4L5A)	7.604 M	7.032 M	1995
SOAB-HP	North America	WP3R (op K9PG)	9.651 M	7.629 M	1992
SOAB-HP	Oceania	KH7X (op KH6ND)	7.371 M	6.676 M	2000
SOAB-LP	Oceania	KH6/K2PLF	2.024 M	1.525 M	1994
SOAB-QRP	North America	TI5N (op W8QZA)	1.944 M	1.169 M	1988
SO-15	Africa	D44TD (op IK4UPB)	666.9 k	342 k	1992
M2	SA	PJ2T	13.06 M	6.936 M	1985

DXCC on the band, down from 167 last year. The southern part of the US was the place to be on 10 meters, as Chuck, W5PR, and Courtney, K4WI, slugged it out with 468k and 425k, respectively.

15 meters: From even farther west, Larry, N7DD, moved from 20 meters to 15 and brought home the bacon this year to the tune of 568k. Hearing Larry off the back of his beam, no doubt, Bill, KVØQ, was second with 482k before the East Coast returned to the standings at #3 with John, N3HBX's 319k. Turning the 10 meter situation on its head, the Midwest and Western stations dominate through the first 20 scoring positions. Gus, VO1MP, made a lot of DX stations happy with 211k operating low-power, followed by another big effort from K2MFY in the NLI section.

20 meters: Continuing our tour of the US, the 20 meter top spot landed in Washington State due to the 7th-district record-setting performance of Dan, W7WA, with a 578k score. Twenty is a tough band because of crowding and short skip that increases the local QRM levels.

Also putting in solid efforts were Chuck, WA2QNW (420k), and Rick, NQ4I (224k), at the #2 and #3 spots.

40 meters: Paul, N4PN, is to be congratulated for his top score of 110k when the rest of the troops found 40 meters rather uncooperative. Congratulations, also, to Manny, W2MF, for placing second at 67k but using low power to do it! N2WW out in Colorado was third. The Top Ten in this category bounces all around the country.

80 meters and 160 meters: Still waiting their turn for the Big Openings, 80 and 160 meters were still far from their prime. Nevertheless, Joe, AA1BU, was back in the saddle again this year, pushing his 80 meter score up 20% to 121k and closely followed by Ted, KT1V, at 118k. They'll be ready when the low bands are the places to be. Jim, K5RX, took the honors on 160 meters this year with 5.6k. Get those antennas ready, folks!

Multioperator

The number of Multioperator entries took a big jump this year—from 97 to 110.

Continental Leaders

Single Operator QRP

Asia	JR4DAH	81,771
Europe	F5BEG	192,924
North America	TI5N	1,944,441
South America	HC1HC	704,436
Africa	SU9NC	541,008

Single Operator Low

Asia	JH4UYB	815,556
Europe	CT1EAT	1,111,038
North America	V26P (W5AJ, op)	5,420,727
Oceania	KH6/K2PLF	2,024,760
South America	LT5H (LU2HF, op)	1,378,080

Single Operator High

Africa	D4B (4L5A, op)	7,604,190
Asia	JH5FXP	1,774,080
Europe	IR4T (I4UFH, op)	2,286,711
North America	WP3R (K9PG, op)	9,650,745
Oceania	KH7X (KH6ND, op @ KH7R)	7,370,550
South America	LU1NDC	2,598,732

Single Operator Single Bands

Europe	RN6BN	1,092	160
North America	KV4FZ	15,180	160
South America	YV5MBX	16,539	160
Asia	RAØFN	2,142	80
Europe	OR3T (ON4UN, op)	89,817	80
North America	FM5GU	224,082	80
Oceania	VK3DZM	12,330	80
South America	YV3AZC	170,694	80
Asia	JS2LGN (JA7KAC, op)	50,643	40
Europe	OK1RI	165,474	40
North America	TG9ASO	50,337	40
South America	YV5OHW	198,882	40
Africa	CT3KU	2,592	20
Asia	RZ9HG	122,094	20
Europe	7S2E (SM2DMU, op)	320,433	20
North America	XE1L	235,800	20

Oceania	VK7VH	3,456	20
South America	PYØFF	398,940	20
Africa	D44TD (IK4UPB, op)	666,900	15
Asia	JA7NVF	234,879	15
Europe	CT1BOP	369,294	15
North America	ZF2AH	641,964	15
Oceania	T31MY (KF4TUG, op)	186,006	15
South America	ZX5J	431,460	15
Africa	EA8AKN	107,730	10
Asia	7J2YAF (JA1KSO, op)	167,409	10
Europe	EA4WF	248,472	10
North America	CM8WAL	319,368	10
South America	ZY5G	539,667	10

Single Operator Assisted

Africa	CT3EE	385,050
Asia	7L4IOU	173,352
Europe	LY7Z (LY2TA, op)	1,449,723
North America	TO1A (IK2QE1, op)	6,295,320
South America	ZX2B (PY2MNL, op)	1,629,504

Multioperator Single Transmitter

Asia	JA8RWU	1,086,180
Europe	TM5C	4,384,065
North America	VP5B	8,556,132
Oceania	KH6RR	4,058,100
South America	FY5KE	8,890,704

Multioperator Two Transmitter

Asia	JA1YPA	213,246
Europe	9A7A	3,511,200
North America	6D2YFM	9,564,027
South America	PJ2T	13,061,412

Multioperator Unlimited Transmitter

Asia	JA3YBK	2,744,508
Europe	9A1A	4,042,020

The idea of teams working together in the contest continues to pick up steam. There were more operators at the Multis than in any single-op category.

Multi-Single: Reversing a long-term downward trend, Multi-Single jumped back to 61% of the total team scores with 43 high-power and 24 low-power entries. K8AZ's warriors, last year's winners, spanked the rest of the competition again with 3.893M from OH. Down south in STX, K5NA put together a strong team effort to surpass the ops at KY2J in ENY by the slimmest of margins, 0.4%. Only a single percent farther back and nipping at their heels was the NØNI team from the tall corn country of IA.

A parallel universe unfolded among the low-power entries, with a strong win at WB2KHO in NLI, followed by a tightly-packed peloton of KAØGGI in MO, K3DSP in MDC and W6AQ from LAX on the West Coast.

Multi-Two: Holding steady in relative numbers, the Multi-Two category was composed of three big scorers and everybody else. K4JA's fine VA station led the way, vanquishing an ancient 1984 record in the process, out in front by a substantial margin at 8.445M. N3RS in EPA gave a good account of themselves with 7.295M as did N2NT's crew from NNJ (what exit?) with 6.306M. Putting the often-difficult MAR section on the bands was the VE1JF team in fourth place with 3.338M. The West Coast appeared at places #5 (NK7U in OR), #7 (W6NV in EB) and #10 (K6IDX in SV).

Multi-Multi: The winner of this category rarely strays from the New England, Atlantic or Hudson Divisions and this year was no different. When the walling was over, KC1XX had prevailed to snatch the title away from last year's winner, W3LPL, by the measly margin of just under 5%, 11.998M to 11.426M. Frank's team at 'LPL ferreted out a pair of multipliers that Matt's magicians at 'XX couldn't conjure, but the big KC1XX signal garnered 321 more QSOs to make the difference.

The effort from K9NS from the plains of IL with 8.524M deserves notice. They were a lot closer last year, but still convincingly took third despite being the farthest west of any station in the Top Ten.

Affiliated Club Competition

Two more clubs clambered aboard the good ship "Unlimited" this year—welcome to the Florida Contest Group (placing 5th) and the Northern California Contest Club (placing 6th). As for the first-place title...yikes! A very close call for the Yankee Clipper Contest Club as the Frankford Radio Club comes within 2.3% of snatching the coveted gavel, falling only 6M points below YCCC's 263M.

The very dynamic Medium Category gavel was taken by another club moving up, the Hudson Valley Contesters and DXers

W/VE Single Operator All Band Region Leaders

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

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 Sections)		
VY2ZM (K1ZM, op)			K1TO	3,811,926	C	VE3EJ	3,876,654	C	K5TR	2,694,654	C	N6IG	2,632,773	C
	5,150,781	C	N5DX	2,646,000	C	N9RV	3,720,525	C	VA5DX	1,212,957	C	N7GYD	1,905,480	C
KQ2M	4,389,072	C	WA4TII	1,209,786	C	W9RE	2,876,850	C	N5TY	772,590	C	K5RR	1,095,330	C
K3ZO	3,795,000	C	N4ZR	1,123,722	C	VE3AT	2,514,078	C	N0AT	743,688	C	WA7LT	1,056,201	C
W3BGN (W2BGN, op)			N4AO (WC4E, op)			K9NW	1,752,054	C	K5GH	518,010	C	KG7H	912,144	C
	2,860,440	C		1,033,632	C									
AA1K	2,794,173	C												
N1SV	1,045,200	B	W4IX	1,870,176	B	N4TZ	926,073	B	N5AW	1,158,822	B	N6NF	645,120	B
KS1J	1,019,472	B	N8II	930,624	B	VE3NE	430,353	B	AC0W	592,416	B	WN6K	330,225	B
N1UR	920,334	B	N4IG	805,164	B	KF8K	395,379	B	WQ5C	409,614	B	WS7V	322,686	B
WA1S	887,040	B	K4MM	791,820	B	VE3CR	387,000	B	VE5SF	400,608	B	VE6ZT	297,045	B
W1CTN	812,436	B	N4NX	552,492	B	N8CN	338,832	B	AA0MZ	325,080	B	KE7RT	289,602	B
N1TM	182,178	A	N4KG	725,952	A	VE3KZ	168,516	A	WA8ZBT	144,414	A	N7IR	94,080	A
W1AMF	100,548	A	WB3BEL	203,907	A	N8IE	128,583	A	KK0Q	107,448	A	K7MM	23,958	A
K3TW	100,440	A	K4WY	107,940	A	W9DZ	80,712	A	KG5U	102,366	A	KA6SGT	8,103	A
W1TW	62,685	A	KR1ST	44,847	A	N8XA	72,390	A	N0UR	56,454	A	W7YAQ	8,064	A
K1HJ	50,904	A	KQ4YY	38,844	A	WA8RJF	19,845	A	KA5PVB	41,499	A	KL7FDQ/7	7,128	A

who more than tripled their submitted logs to claim the gavel this year. The Tennessee Contest Group moved up from seventh to second, and third was claimed by the Contest Group Ontario who were not even in evidence on the club roster last year!

The Local gavel goes again this year to the Hoosier DX and Contest Club. The number two and three spots go to two new entries, the Spokane DX Association and the Western Wireless Contest Club. Making a strong move from the middle of last year's pack, the Western Illinois ARC placed fourth, just out of the medals, but a good job just the same.

DX

I remember that as a budding contester and DXer, I always looked forward to the ARRL DX weekends because I could get through to the difficult places when they had to look in my direction all weekend. I had my first "run" during a weekend of good conditions when the band "came alive." Those February and March weekends are still special to me, largely because of the great participation from around the world. Thanks!

DX QRP: What can you say about a score that places in the Top Ten of a higher-power category? Bill, W8QZA, operating from the excellent TI5N station obliterated a long-standing record with 1.944M and would have placed 6th in the Low-Power and 13th in the High-Power categories. Woof!! In second place, Ted, HI3TEJ's 1.256M would have also broken the old record. HC1HC's third place finish with 704k was the top South American entry. Farther down the Top Ten, F5BEG at #5 was the top European and JR4DAH made the biggest score from Asia.

DX Low Power: Another super category-jumping score of 5.421M was turned in by W5AJ operating at V26P. Numero Uno in the low-power category, this would have made ninth place in the High-Power category. Bob

almost broke the old record. Kurt, VP9/W6PH, was a strong second with 4.345M, but Bermuda didn't have nearly the propagation on 10 meters that the Caribbean operators enjoyed. Keeping the string of North American stations going, J88DR and XE2AC were fourth and fifth before KH6/K2PLF's record-setting effort for Oceania cracked the Top Ten. He was followed by LU2HF at LT5H as the top South American entry. Europe was able to break into the Top Ten with the number nine score of CT1EAT.

DX High Power: This year, nine of the Top Ten scores were from guest operators, most of whom traveled a long way to do the contest.

King of the rate-meisters—literally—is Paul, K9PG, who set both an all-time North American record from WP3R with 9.651M and also set the rate bar to 460/hr just a little bit higher than Jeff, N5TJ's old mark of 457 per hour. Just 100 QSOs (2 per hour) and 10 multipliers back, Tom, W2SC, piloted 8P1A to another excellent score of 9.272M in second place.

Just over the horizons in different directions, 4L5A setting a new African record at D4B and KH6ND at KH7X, duked it out for third and fourth, representing Africa and Oceania. Another mid-Atlantic sojourner, Martti, OH2BH, placed fifth from EA8BH. The top South American finisher was LU1NFC in the 10th spot, operating from home.

DX Assisted: Connectees to the extensive packet networks of Europe dominate in this category. Stefano, IK2QEI, one of Italy's WRTC-2002 team, also dominated from TO1A with a 6.295M effort that was nearly three times the old record. His score was also more than four times that of second-place finisher, Wanderly, PY2MNL, operating ZX2B to 1.63M points and using low-power, to boot.

Andrias, LY2TA, another WRTC-2002 operator, finished third with a fine 1.450M score. 4N7DW at YT7A just barely got by

another WRTC-2002 op, DL6FBL, 1.056M to 1.052M to take fourth place. CT3EE was the sole African representative in the Top Ten at eighth place.

DX Single-Band

10 meters: The single-band entries on 10 meters were a clean sweep for the South Americans, led by ZY5G and hotly pursued by CX5BW and PX2W. The Argentinians, LU1HF and LU6ETB were right behind in fourth and fifth places. PY2TO placed ninth while running low-power. Just out of the Top Ten was CM8WAL, the top non-South American entry. The Top Ten multipliers were all very, very close at 59-61, although LU6ETB found an elusive 62nd. Europe did not appear until the 15th position with EA4WF's score. JA1KSO piloted 7J2YAF to the top Asian score while EA8AKN was the top African score.

15 meters: 2003 was a year for 15 meters. Gab, IK4UPB, was able to take advantage of the exotic attraction that African calls have to the North American for a big 667k score that nearly doubled the old record. Right on his tail was Joe, W6VNR, at ZF2AH just 20k back at 642k. With the third continent in as many entries, ZX5J placed third from South America before the Europeans filled out the remainder of the Top Ten led by CT1BOP. JA7NVF was the top Asian entry and T31MY operated by KF4TUG was the top Oceania score, running low-power.

20 meters: It doesn't matter whether the flux is high or low because 20 meters conveniently straddles the range of minimum and maximum useful frequencies in most years.

Andre, PY0FF, took advantage of his island location in the salty Atlantic to rock around the clock to a solid 399k first-place total. Somewhat closer to North America, YV5LIX was second with 330k and then we jump to Scandinavia with a fine 320k score from SM2DMU at 7S2E. Somewhat

surprisingly, North America is absent until seventh place, where Luis, XE1L, took advantage of short skip conditions. Eighth and ninth Top Ten positions were occupied by the low-power scores of PY2NY and YV5OIE. RZ9HG called in from over the North Pole as the top Asian score.

40 meters: Continuing the Venezuelan run of Top Ten scores, YV5OHW comfortably led all comers with 199k from the northern shore of South America. While working split from a narrow band keeps scores down, that doesn't dampen the enthusiasm of our European colleagues as they

occupy the next six positions, led by Jiri, OK1RI's 165k and GW4BLE's 138k at the helm of GW7X. JA7KAC was the voice behind JS2LGN to take home Asian honors and TG9ASO was 10th from North America.

80 meters and 160 meters: Overcoming atmospheric noise and ionospheric absorption, FM5GU was out in front of the 80 meter crowd with 224k. YV3AZC with 171k and CO8ZZ with 124k took the second and third spots. Europe was led by the mighty station of John, ON4UN, using the call OR3T. YY5YMA broke into the Top Ten running low power.

Top Band found yet another Venezuelan, YV5MBX, leading the charge with 16.5k from 149 QSOs in 37 states and provinces. Herb, KV4FZ, returned to the bands with a close second-place finish at 15.2k. Several Europeans also braved the solar cycle, led by RN6BN's 26 QSOs from about as far away from North America as you can get without being in Asia. Cheer up, lads, it can only get better!

Multi-Single: This category should be renamed "The Radio Vacation" category, since it seems to be packed full of traveling contesters escaping the long, dark wintry days and nights of home.

Multi-Single was also very competitive with FY5KE winning at 8.891M and the VP twins, VP5B and VP5A too close for comfort at 8.556M and 8.322M. HU1A was a welcome entry from El Salvador, all too rare on the bands recently. TM5C was the top European entry and KH6RR bubbled to the top in watery Oceania. The Asian race was really close as JA8RWU finished first by a paper-thin margin over JA7YAA, 1.086M to 1.085M.

Multi-Two and Multi-Multi: The winning score of 13.06M turned in by the Caribbean Contesting Consortium (asgard.kent.edu/ccc/) at PJ2T is a new South American record, 6M over the PJ0B record set nearly 20 years ago. Jeff, W0CG, and his group have done amazing things with one of the most storied QTHs in contesting. Closer to the target, 6D2YFM was driven to second place with 9.56M, followed by V26DX's 5.25M from the Caribbean. 9A7A was the top European entry at 3.511M.

Several Multi-Multi teams from Eastern Europe geared up to blanket the bands, led by the big Croatian signal of 9A1A with 4.042M and then IR4X, RW2F, OM0M and LY7A. From the other direction, JA3YBK's team was the Asian Multi-Multi representative.

DXing

Hey, it's a DX contest, right? What could be more fun than doing a little DX-ing? Or maybe a LOT of DX-ing! Sorting through the logs, we find that DXCC was possible on 20, 15 and 10

Affiliated Club Competition

	Score	Entries		Score	Entries
<i>Unlimited Category</i>					
Yankee Clipper Contest Club	267,042,084	228	Salt City DX Assn	1,179,648	4
Frankford Radio Club	253,249,236	158	Western New York DX Assn	1,116,075	9
Potomac Valley Radio Club	148,306,941	148	Southern California DX Club	1,030,083	12
Society of Midwest Contesters	64,222,716	105	Oklahoma DX Assn	853,038	3
Florida Contest Group	45,532,599	73	Bergen ARA	845,073	9
Northern California Contest Club	45,503,418	57	Kansas City DX Club	772,056	4
Minnesota Wireless Assn	28,537,641	66	Northern Arizona DX Assn	566,109	6
<i>Medium Category</i>					
Hudson Valley Contesters and DXers	42,439,890	30	Eastern Iowa DX Assn	532,683	4
Tennessee Contest Group	26,485,110	39	Southwest Ohio DX Assn	486,972	3
Contest Club Ontario	25,249,644	41	Green River Valley ARS	472,983	6
Mad River Radio Club	24,886,848	24	West Park Radiops	333,222	10
Texas DX Society	21,750,429	14	South Jersey Radio Assn	308,166	5
Southern California Contest Club	21,537,576	35	Kentucky Contest Group	280,974	3
Willamette Valley DX Club	19,486,737	21	<i>Local Category</i>		
Rochester (NY) DX Assn	18,004,812	13	Hoosier DX and Contest Club	3,248,352	6
North Texas Contest Club	17,173,674	18	Spokane DX Assn	2,120,655	7
North Coast Contesters	17,200,356	20	Western Wireless Contest Club	1,335,150	4
Central Texas DX and Contest	16,800,897	13	Western Illinois ARC	1,206,654	10
South East Contest Club	11,227,962	23	Wireless Assn of South Hills	1,073,358	3
Western Washington DX Club	8,593,134	32	Sterling Park ARC	911,514	4
Grand Mesa Contesters of Colorado	8,162,391	18	American Red Cross Emergency	882,255	5
Mother Lode DX/Contest Club	7,466,460	18	Medina 2 Meter Group	876,996	3
Order of Boiled Owls of New York	5,242,323	12	Redmond Top Key Contest Club	561,522	5
Central Arizona DX Assn	4,739,418	13	Northern Rockies DX Assn	541,164	3
Alamo DX Amigos	2,298,390	15	Meriden ARC	533,499	6
Carolina DX Assn	2,014,479	14	Northern New York Contest Club	448,518	7
Florida Contest Group—Panhandle	1,250,442	8	Heartland DX Assn	394,368	5
			Dauberville DX Assn	335,289	3
			Cherryland ARC	287,430	3
			Loudoun ARG	195,009	4
			Sturdy Memorial Hospital ARC	172,959	4
			10-70 Repeater Assn	131,328	3

Plaque Winners

Plaque Category	Winner	Plaque Sponsor
W/V/E High Power Phone	VY2ZM (K1ZM, op)	Frankford Radio Club
W/V/E Low Power Phone	W4IX	Dauberville DX Assn
W/V/E QRP Phone	N4KG	Jeffrey Briggs, K1ZM
W/V/E Single Operator Assisted Phone	K2NG	Pete Carter, K3VW Memorial
W/V/E Multioperator Single Transmitter Phone	K8AZ	Steve Adams K4RF
W/V/E 3.5 MHz Phone	AA1BU	K1ZM Communications, Inc
W/V/E 14 MHz Phone	W7WA	William F. Beyer Jr, N2WB
World Single Operator Phone High Power	WP3R (K9PG, op)	North Jersey DX Assn
World Single Operator Phone Low Power	V26P (W5AJ, op)	DX Publishing, N4AA
World Single Operator Phone QRP	T15N	Southern Arizona DX Assn
World Single Operator Assisted Phone	TO1A (IK2QE1, op)	Willamette Valley DX Club
World Multioperator Single Transmitter Phone	FY5KE	Carl Cook, AL6V/P49V
World Multioperator Unlimited Phone	9A1A	Stanley Cohen, W8QDQ
World 1.8 MHz Phone	YV5MBX	Fred Race, W8FR, In Memory of ZL2BT
World 14 MHz Phone	PY0FF	Don Wallace, W6AM, Memorial Award
World 28 MHz Phone	ZY5G	North Shenandoah DX Assn NS4DX
World Single Operator High Power Combined	WP3R (K9PG, op)	ARRL Contest Branch
World Multioperator Unlimited Combined	9A1A	W2PV Memorial—Schenectady ARA
W/V/E Single Op Combined High Power	VY2ZM (K1ZM, op)	National Contest Journal
W/V/E Low Power Combined Score	N1UR	Rochester DX Assn K2FR Memorial Plaque
Asia Single Operator Phone High Power	JH5FXP	Tim Coad, NU6S
Asia Multioperator Single Transmitter Phone	JA8RWU	Yankee Clipper Contest Club
Europe Single Operator Phone High Power	IR4T (I4UFH, op)	Jerry Griffin, K6MD
Europe Multioperator Unlimited Phone	9A1A	Operators at K1TTT
North America Multioperator Single Transmitter Phone	VP5B	Nick Lash, K9KLR
Oceania Single Operator Phone High Power	KH7X (KH6ND, op @KH7R)	W7EW in honor of W7BX
South America Multioperator Two Transmitter Phone	PJ2T	Operators at K1TTT
Central Division Single Operator High Power All Band Phone	N9RV	Society of Midwest Contesters
Central Division Multioperator Single Transmitter Phone	KD9ST	Society of Midwest Contesters
Central Division Low Power All Band Phone	N4TZ	Society of Midwest Contesters
Rocky Mountain Division Single Operator Low Power Phone	W5GZ	Grand Mesa Contesters
Seventh Call Area Single Operator High Power Phone	N7GYD	Willamette Valley DX Club
Japan Single Operator Low Power Phone	JH4UYB	Western Washington DX Club

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.

meters and numerous US and VE stations took the opportunity to make a single-band DXCC:

- 20 meters—53 stations
- 15 meters—45 stations
- 10 meters—30 stations

21 stations worked DXCC on all three bands, including Single-Ops K3WW and K2NG in the Assisted category. 18 additional stations doubled up on DXCC, including Single-Ops VE3EJ, VY2ZM, KQ2M, N9RV and W9RE, and Single-Op Assisted entrant W2RE, K2XA, W4NF, K3NM and N1EU. Excellent detective work, gentlemen!

From the DX side, 62 multipliers on 10 and 15 meters was the maximum worked by any single station, with K9PG at WP3R (Single-Op All-Band) topping out on both bands and LU6ETB on 10 meters (Single-Band). K9PG also put 61 multipliers in the log on 20 meters. Four stations got 61 mults on two bands, including Single-Ops W2SC at 8P1A and 4L5A at D4B.

The rarest state or province was—no surprise here—VY1 with your friend and mine, VY1JA, luckily keeping the shack warm with his kW RF heater. WY and VE4 were only represented by three low-power entries each. There were four stations on

from VE5, NV, VO1, ND, LA and KY. Things were a little easier for UT, NM, MAR and VE7 with five active stations.

News of the Strange

Doing a little data mining, this year I looked specifically for identical scores in the same category and found 13 pairs of them! Strangely, almost all of them (11) were low-power entries. All but four had identical QSO and multiplier totals, while the rest had combinations that multiplied together to identical numbers.

A puzzle: What scores below 20M points are impossible to achieve? Send me the answer with your reasoning and I'll print the first five plausible (what am I, *Scientific American*?) responses in an upcoming issue of the *Contester's Rate Sheet* (www.arrl.org/contests/rate-sheet/about.html)

Web Writeup Notes and New Features

This year, the Web results feature a new set of "micro-analyses" at the Division level. Volunteers from several Divisions and South America took a look at the data from their home fields and contributed short write-ups. Hopefully, this will become a regular feature for the larger con-

tests and point out the exceptional efforts that sometimes go unnoticed alongside the Top Ten boxes. If your Division isn't represented, please consider volunteering an hour or two to look over your regional data. We are also fortunate to have a short piece by one of the contesting legends, Mr Fred Laun, K3ZO. Fred is also still pounding the bands and figures prominently in this year's results. Fred contributed an article about operating the contest 50 years ago in the Pre-CQ age. Thanks, Fred!

Many of us in ham radio may not have excelled on the playing field with bat and ball. (I maintain that I would have made a good second baseman, but I digress...) But once we get behind a microphone or key we become just as good as any athlete playing our native game. Whether from home or away we all take our swings in the pileup. When we crack that pileup or log a blistering run, we're all hearing the same cheers as the superstars on TV. All this from our basements, spare bedrooms and garages, packed with precious gear and driving our best antennas. And it happens to each and every one of us—at that moment legend and rookie alike have their moment only to move on after a quick smile. QRZ? See you in the next one. QST

Scores

Scores are listed by DXCC Countries and ARRL/RAC Sections. Within each Country or Section, scores are listed in descending order, by power categories, followed by multi-operators. Line scores list call sign, score, QSOs, multipliers, hours of operation (default is 48), power (A = QRP, B = Low Power, C = High Power, D = Multioperator), and band.

<p>Phone</p> <p>WVE</p> <p>Single Operator</p> <p>1</p> <p>Connecticut</p> <p>N1TM 182,178 349 174 A W1AMF 100,548 266 126 A KA1VEC (NM1K,op) 7,560 70 36 A W1CTN 812,436 857 316 B W1JQ 624,708 777 268 B AA1ZT 472,842 654 241 B WB1GCM 115,926 278 139 B W3TB 58,710 206 95 B W1DMM 40,470 142 95 B W1AAD 14,931 79 63 B N7NG 8,568 56 51 B NX1Q 6,450 50 43 B K1MKF 2,883 31 31 B KQ2M 4,389,072 2998 488 C NT1N 1,597,590 1455 366 C K1ZZ 951,375 1075 295 C KA1VMG 107,304 263 136 C WW3K 44,394 151 98 C K1WMQ 39,216 152 86 C W1EQ 18,432 96 64 C KB1JU 12 2 2 C WA1JMP 112,050 498 75 C 15 W1DAR 13,536 94 48 C 15 K7BV 132,840 492 90 C 10 W1/YO3JW 20,862 114 61 C 10 KA1RWY 351 13 9 B 10</p> <p>Eastern Massachusetts</p> <p>W1TW 62,685 199 105 A K1HJ 50,904 168 101 A W1MMM 8,256 64 43 A N1SV 1,045,200 1040 335 B N1DD 778,680 840 309 B W1TE 758,520 840 301 B</p>	<p>K1HT 611,616 736 277 B KA1EKR 253,080 444 190 B N3KCJ 250,740 420 199 B WG1Z 199,245 359 185 B W1VIV 118,188 294 134 B N1VI 61,110 194 105 B WA1OLV 42,390 157 90 B KY1B 33,930 130 87 B K1RB 32,640 128 85 B N1IST 22,230 95 78 B WB1FLA 15,555 85 61 B W1AWB 12,060 67 60 B N1HTS 11,844 84 47 B KA1EZH 1,995 35 19 B K5MA 950,670 1006 315 C W1KRS 338,580 513 220 C N1IUN 245,604 422 194 C KV1J 230,496 392 196 C W1FM 97,155 255 127 C KA1IOR 45,216 157 96 C W1DO 28,800 100 96 C K1IR 918 18 17 C AA1BU 121,512 488 83 C 80 N1DC 47,250 225 70 B 15 K1PNQ 21,684 139 52 C 15 W1GOU 10,332 84 41 B 15 K1RDD/M 450 15 10 B 10 K1NUN 27 3 3 B 10</p> <p>Maine</p> <p>N1LW 235,752 418 188 B K1SWG 24,750 110 75 B KD1OG 9,072 72 42 B NS1Z 3,456 36 32 B N1YIS 396 11 12 B W1AO 1,717,980 1507 380 C W1RWB 151,704 294 172 C W1CEK 1,035 23 15 A 10</p> <p>New Hampshire</p> <p>WA1S 887,040 880 336 B WS1A 531,960 715 248 B NM1W 417,366 531 262 B</p>	<p>WA1Z 398,898 534 249 B WB1EDI 82,908 196 141 B AB1CD 77,604 223 116 B AE1T 35,760 149 80 B AE1D 28,080 130 72 B W1DAD 26,289 127 69 B W1LZ 22,425 115 65 B N1OZF 1,326 26 17 B KC1F 2,095,947 1957 357 C K1BD 230,775 425 181 C W1UR 56,430 190 99 C KT1V 118,404 506 78 C 80 KG1V 6,930 66 35 B 15</p> <p>Rhode Island</p> <p>KS1J 1,019,472 1072 317 B KB1LN 34,671 127 91 B AA1PV 15,714 97 54 B K1IG 449,286 727 206 C WA1MKS 49,470 194 85 C 20 N1HRA 128,640 536 80 C 15 K1VSJ 76,860 305 84 B 10 N1YKH 1,632 32 17 B 10</p> <p>Vermont</p> <p>N1UR 920,334 977 314 B W1ZS 84,606 239 118 B KA1LDS 73,326 202 121 B K1KU 21,708 108 67 B K1LI 491,052 604 271 C N1BCL 384,426 567 226 C K1KD 315,168 469 224 C W1ZK 19,998 101 66 C</p> <p>Western Massachusetts</p> <p>N1PGA 754,770 905 278 B W1KT 518,280 617 280 B KX1X 187,668 401 156 B K1SND 62,832 187 112 B K5ZD 1,744,050 1510 385 C KV1W 14,382 102 47 C</p>	<p>2</p> <p>Eastern New York</p> <p>KC2DTJ 176,292 354 166 B K2PH 133,200 300 148 B N2MTG 81,918 222 123 B W2QQ 59,535 189 105 B N2BZP 37,191 161 77 B W2YK 22,644 111 68 B WB2DZH 17,082 78 73 B W2ENY 344,586 506 227 C N2SQW 77,112 204 126 C K2UF 18,816 112 56 B 40 KA2ASU 10,998 94 39 B 10</p> <p>NYC-Long Island</p> <p>KA2VVO 36,261 153 79 A KD2RD 312,600 521 200 B WB2ZTH 215,688 344 209 B KC2HLI 212,394 389 182 B N2MUN 209,592 426 164 B N2UN 134,964 326 138 B N2LEB 95,634 231 138 B WB2OQQ 79,152 194 136 B K2SGH 57,600 192 100 B WB2JSM (W2IRT, KC2CBA, N2STX, N2EOI, WA2NCT) 50,904 168 101 B K2CAD 24,864 112 74 B WB2TPS 21,513 101 71 B KA2NRR 270 10 9 B AK2P 301,350 410 245 C N2GC 41,922 137 102 C NK1N 40,392 153 88 C AB2GG 30,012 122 82 C WB2AMU 5,928 52 38 B 40 K2RED 29,946 161 62 B 20 K2MFY 120,672 419 96 B 15 N2GA 64,965 305 71 B 15 KD2HE 41,004 201 68 C 15 KS2G 22,512 134 56 B 15 KA6WBQ 2,952 41 24 B 10 W2BZH 2,106 39 18 B 10</p>
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Northern New Jersey

W2JEK	8,037	57	47	A
KX2S	273,774	443	206	B
K2YA	264,600	450	196	B
K2YLH	120,120	286	140	B
K2YSY	102,960	240	143	B
KR2Q	101,844	276	123	B
WA2LXE	67,374	197	114	B
WA2BKN	55,332	174	106	B
W2CWA	54,600	182	100	B
WD2WD	47,040	160	98	B
WB2IDV	23,064	124	62	B
WB2AIU	7,680	64	40	B
K2SZ	4,950	50	33	B
N2LT	2,219,904	1927	384	C
W1GD	1,770,300	1405	420	C
W2OO	494,691	613	269	C
W2UDT	222,288	421	176	C
WA2VYA	124,839	291	143	C
W2KXD	23,166	99	78	C
WQ2M	28,086	151	62	B 40
WA2QNW	420,360	1130	124	C 20
AE2JL	39,000	200	65	B 15
W2RD	129,195	435	99	C 10
W2KV	91,632	332	92	C 10
N2GM	59,508	261	76	B 10
N2MH	180	10	6	A 10

Northern New York

WE2A	245,700	420	195	B
WB2KLD	204,687	361	189	B
NS2P	82,110	238	115	B
NG2C	30,552	134	76	B
N2JNZ	12,312	114	36	B 10

Southern New Jersey

WB3FSR	631,332	852	247	B
W2RDS	462,990	671	230	B
WA2IAU	119,232	276	144	B
KV2M	117,576	284	138	B
N2PAQ	97,902	259	126	B
W2MC	92,664	234	132	B
K2UR	84,753	219	129	B
KA2YKN	25,536	112	76	B
KC2KGZ	19,398	106	61	B
N2WRD	12,636	81	52	B
W5KI	1,440	24	20	B
N2MR	560,142	738	253	C
KB2M	125,160	280	149	C
W2MF	67,440	281	80	B 40
K2QPN	3,744	39	32	B 15
KA2BXH	297	11	9	C 15
KC2TN	70,560	294	80	B 10

Western New York

WB7OCV	33,660	132	85	A
W2TZ	666,723	769	289	B
K2CS	205,674	413	166	B
N2CK	114,114	286	133	B
K2CVG	82,731	253	109	B
WA2YSJ	50,220	155	108	B
N2LQQ	45,477	163	93	B
K2GKM	27,432	127	72	B
N2MG	772,317	943	273	C
K2BF	537,156	694	258	C
K2FU	432,915	589	245	C
WB2WPM	125,550	279	150	C
WR2V	114,756	292	131	C
W2FUI	80,223	221	121	C
K2NV	41,769	153	91	C
W2VO	2,520	30	28	C 160
KF2SJ	3,528	49	24	B 15
W2STM	360	12	10	B 15
N2CU	13,530	110	41	B 10

3**District of Columbia**

W3DOS (K3TW,op)	89,355	259	115	C
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Delaware

W3TT (N9GG,op)	4,515	43	35	B
AA1K	2,794,173	2161	431	C

Eastern Pennsylvania

W3ZV	33,534	138	81	A
WR3H	233,550	450	173	B
W3KM	128,454	271	158	B
KB3HOT	108,891	327	111	B
K1DS	94,680	263	120	B
N3NR	93,696	244	128	B
N3OW	73,260	185	132	B
KE3TC	43,860	172	85	B
W3ZL	38,181	143	89	B

N3RW	33,525	149	75	B
K3EGE	28,188	174	54	B
AI2P	15,990	82	65	B
K3QJ	14,094	81	58	B
W3SSS	4,410	49	30	B
W3BGN (W2BGN,op)	2,860,440	2167	440	C
N3NS (K3IPK,op)	744,120	954	260	C
KB3TS	451,806	586	257	C
N3RJ	379,899	573	221	C
W3BYX	249,081	409	203	C
N3KR	89,784	232	129	C
AD3Z	84,456	207	136	C
K3ISH	84,240	240	117	C
W3BEN	81,795	205	133	C
N3ONM	60,816	181	112	C
W3JRY	32,670	110	99	C
W3ELA	18,432	96	64	C
W3RJ	3,726	54	23	C
WY3T	48,111	203	79	C 20
K4JLD	85,557	361	79	C 10
W1NN	31,668	182	58	B 10
NZ3O	75	5	5	A 10

Maryland-DC

K3TW	100,440	270	124	A
W3LL	497,133	607	273	B
KE3VV	236,742	374	211	B
W3ARS	199,920	340	196	B
NS3T	198,360	348	190	B
K3VY	170,100	324	175	B
N3FNE	94,488	254	124	B
N3VOP	83,538	234	119	B
N3XL	38,502	138	93	B
K3YDX	32,319	133	81	B
WA3G	31,833	131	81	B
KC3I	20,808	102	68	B
W6NRJ	18,711	99	63	B
W3FAY	14,193	83	57	B
K3ZO	3,795,000	2875	440	C
K3PN	871,182	949	306	C
N3UM	730,098	863	282	C
N3WD	326,634	539	202	C
WX3B	195,939	369	177	C
K3GV	110,826	262	141	C
K1RH	80,385	233	115	C
N4KKD	58,140	170	114	C
W3FQE	25,179	109	77	C
N2US	8,712	66	44	B 40
KB3GFF	3	1	1	A 20
N3HBX	319,176	1144	93	C 15
WK3H	31,434	169	62	B 15
KT3RR	69,264	296	78	B 10
W6AXX	51,903	237	73	C 10
W3CP	18,225	135	45	B 10

Western Pennsylvania

WW3S	548,100	700	261	B
N3PUY	204,168	376	181	B
WB3LKO	27,675	123	75	B
AA3II	4,440	40	37	B
N3LLR	1,188	22	18	B
K3UA	451,500	602	250	C
W3GH	1,587	23	23	C 160
AD8J	22,446	129	58	C 40
WB0IWG	4,650	50	31	A 10

4**Alabama**

N4KG	725,952	796	304	A
N4JF	162,495	345	157	B
AB4EJ	88,977	223	133	B
KG4YNZ	10,812	68	53	B
W4AUB	10,293	73	47	B
AG4W	658,476	804	273	C
W4NTI	221,178	382	193	C
NA4W	969	19	17	B 160
K4NVJ	28,224	147	64	B 20
K4WI	425,712	1267	112	C 10
NV4B	13,038	82	53	B 10

Georgia

WB6BWZ	29,646	122	81	A
N4NX	552,492	596	309	B
KT4ZB	232,932	413	188	B
AA4GA	45,900	150	102	B
AE4Y	43,470	161	90	B
KN6RO	36,000	120	100	B
KB4KBS	16,983	111	51	B
KE4OAR	168	8	7	B
WA4TII	1,209,786	1237	326	C
K4BAI	589,026	773	254	C
K4PHE	173,346	334	173	C

NQ4I	247,248	816	101	C 20
WD4NIT	36	4	3	C 20
WW4LL	231,363	779	99	C 15
W4KZ (OH7KD,op)	154,059	577	89	C 15
K6EID	88,740	340	87	B 15
KB4BBC	11,094	86	43	C 10

Kentucky

KO4OL	26,640	120	74	B
KS4WM	3,744	39	32	B
W4LC	75,573	311	81	B 15

North Carolina

W4IDX	222,222	407	182	B
N4JK	114,234	241	158	B
N4QVM	106,260	230	154	B
K4NYS	71,253	203	117	B
KR4LO	62,730	205	102	B
N4NTO	34,080	142	80	B
KS4AA	31,125	125	83	B
AE4EC	18,090	90	67	B
W4TME	6,264	58	36	B
AG4QZ	3,480	40	29	B
NX9T	907,764	1012	299	C
KO7X	653,292	789	276	C
N4CW	536,895	615	291	C
N4UH	201,912	376	179	C
KE4SCY	179,172	316	189	C
N4XC	64,152	198	108	C
N2USB	28,728	126	76	C
K4SLC	28,440	120	79	C
K4GHS	42,966	217	66	B 10
N4IJ	19,926	123	54	A 10
N4ZAK	12,177	99	41	A 10

Northern Florida

KQ4YY	38,844	166	78	A
WA4NRQ	346,032	534	216	B
K4JAF	254,610	369	230	B
WR4K	209,805	355	197	B
KB4ET	71,511	197	121	B
W4YA	53,301	163	109	B
NN4DF	11,322	74	51	B
KG4MWO	8,103	73	37	B
KB4N	6,954	61	38	B
K4LW	6,762	49	46	B
K0LZ	679,140	980	231	C
W7UF	114,912	266	144	C
KK4SI	2,790	31	30	C 160
AA4MM	17,172	108	53	C 80
N4PN	110,880	420	88	C 40
KB4CRT	1,380	23	20	B 40
KX2J	20,880	116	60	B 20
AD4E	2,346	34	23	C 20
W4VQ	12	2	2	B 20
KE1F	3,240	40	27	B 15
WA2FHF	37,515	205	61	B 10
K1UM	30,744	168	61	C 10

South Carolina

KR1ST	44,847	151	99	A
W4HGW	92,529	207	149	B
N4GJ	15,423	97	53	B
W3WOT	5,046	58	29	B
K4OH	157,785	335	157	C
N4EHT	21,420	102	70	C
K0COP	7,722	78	33	C 15
K4TSU	30,807	163	63	B 10
W2IQL	4,104	57	24	A 10

Southern Florida

W4IX	1,870,176	1694	368	B
K4MM	791,820	795	332	B
AA4RX	408,534	497	274	B
WT5L	256,230	438	195	B
KK4TA	164,781	359	153	B
N3HO	153,045	285	179	B
VE3XD/W4	148,824	318	156	B
NA4CW	106,335	255	139	B
AK4DM	78,300	225	116	B
N1XC	73,326	202	121	B
KR4ZA	69,930	210	111	B
K4RFK	41,223	151	91	B
AG4WL	38,544	176	73	B
K4ARL	14,616	87	56	B
AB4RL	2,700	36	25	B
WA4IRE	148,230	305	162	C
N8PR	60,876	178	114	C
W7FOT	46,812	166	94	C
NJ2F	54,969	251	73	C 15

West Virginia

N8II	930,624	1048	296	B
K5IID	249,480	440	189	B
WR0N	60,375	175	115	B
KZ8E	59,340	172	115	B
N4ZR	1,123,722	1149	326	C
N4SEA	233,904	443	176	C
K8JQ	155,550	305	170	C
K2UOP	29,673	157	63	C 40
K8OQL	20,139	137	49	C 10

9**Illinois**

WB9GKM	6,720	56	40	A
K9JE	250,632	472	177	B
KD9MS	185,760	360	172	B
K0RL	181,665	367	165	B
KC9ARR	152,703	361	141	B
KC9UUM	106,038	274	129	B
W9JJT	52,143	191	91	B
KF9TL	47,940	170	94	B
N9UPG	43,320	152	95	B
K9PO	30,480	127	80	B
AA9RT	28,500	125	76	B
W9CEO	24,924	134	62	B
K9BIG	23,226	98	79	B
N9JF	20,100	100	67	B
W9TMW	18,816	112	56	B
W9LYA	17,136	84	68	B
K9DEB	15,168	79	64	B
N9DT	10,125	75	45	B
N9KO	7,920	55	48	B
W0KT	6,936	68	34	B
NA9DM	6,360	53	40	B
W9SZ	6,321	49	43	B
W9HL	6,120	51	40	B
N9GGO	1,008	21	16	B
K9PLX	330	10	11	B
K9ZO (KB9UWU, op)	1,011,780	1095	308	C

K9IDQ	211,560	410	172	C
W9FGH	141,474	323	146	C
K7EG	71,280	220	108	C
K9FO	31,110	122	85	C
W9VA	28,500	125	76	C
N9GH	23,754	107	74	C
KK9A	11,904	64	62	C
N9OH	3,483	43	27	C
KB9YOZ	108	6	6	C
N9LCR	8,100	60	45	C 40
W9SE	855	19	15	C 40
KG9Z	765	17	15	B 20
KB9ZQU	231	7	11	B 20
W9IL	52,056	241	72	C 15
KG9N	38,415	197	65	C 15
W9/SP3GHK (@KB9OAE)	17,940	115	52	B 15

K9YA (N9BOR, op)	270	10	9	B 15
K9BGL	168,168	572	98	C 10
KF9US	15,732	114	46	B 10
K9MTH	1,248	26	16	B 10

Indiana

W9DZ	80,712	236	114	A
N4TZ	926,073	927	333	B
N9KT	136,620	276	165	B
WR9A	21,462	98	73	B
KB9STQ	17,766	94	63	B
N9RV	3,720,525	2825	439	C
W9RE	2,876,850	2131	450	C
K9NW	1,752,054	1513	386	C
N9SE	598,635	753	265	C
WA1MKE	154,224	306	168	C
WT9U	7,776	72	36	C
N9QX	23,040	128	60	C 40

Wisconsin

K9WIS	11,289	71	53	A
W9RN	225,792	392	192	B
KG9DN	117,306	266	147	B
KB9NIV	76,518	218	117	B
W9AEM	61,110	194	105	B
N9TTX	43,344	168	86	B
KB9OWD	41,031	141	97	B
W9IM	32,193	147	73	B
WX9M	13,515	85	53	B
K9JIG	12,825	75	57	B
KA9VHG	9,516	61	52	B
K9LO	8,256	64	43	B
K9VS	4,692	46	34	B
W9OP	572,964	718	266	C
W9JA	341,544	428	266	C
W9BCV	251,400	419	200	C

K9DJ	225,090	410	183	C
K9CAN	66,555	261	85	C 20
W9XT	154,008	552	93	C 15
KE9S	30,780	171	60	C 15
N19C	10,434	74	47	B 15

0**Colorado**

KK0Q	107,448	296	121	A
W0ETT	118,629	269	147	B
W9BNO	45,657	171	89	B
KC7QY	27,390	110	83	B
N0IBT	12,096	96	42	B
AB0MV	8,208	72	38	B
N6HQY	2,400	32	25	B
N2IC	407,232	707	192	C
K0GAS	223,080	440	169	C
W0LSD	194,895	355	183	C
W0ID	90,678	254	119	C
W0YG	5,568	58	32	C 80
N2WW	59,850	285	70	C 40
KV0K	918	18	17	B 40
KV0Q	482,397	1423	113	C 15
KE9KD	15,093	117	43	B 15
N0HF	78,876	313	84	C 10

Iowa

K9IUA	1,914	29	22	A
KB0BUB	132,468	332	133	B
AD0H	39,816	158	84	B
K0FA	31,464	138	76	B
W0PPF	99,072	256	129	C
WK0F	37,248	194	64	B 15
AG0M	20,448	142	48	B 10

Kansas

AA0MZ	325,080	516	210	B
N0YO	181,602	354	171	B
K0BJ	151,074	327	154	B
N0AG	150,822	294	171	B
WB0YJT	76,275	225	113	B
KC0DDE	55,404	171	108	B
W0WPL	20,196	99	68	B
KA0EIC	17,955	95	63	B
W0IE	16,587	97	57	B
W0BH	396,036	579	228	C
K0RH	155,601	339	153	C
KA0BHO	7,686	61	42	C
N0UU	114,552	444	86	C 15
WA5SWN	14,268	116	41	B 10

Minnesota

N0UR	56,454	194	97	A
AC0W	592,416	748	264	B
W0RK	246,240	480	171	B
AA0AW	149,778	314	159	B
AC0X	131,670	285	154	B
WB0GGM	130,650	325	134	B
K0SQ	119,646	289	138	B
WB0N	91,875	245	125	B
K0SV	90,678	238	127	B
W0PI	71,904	214	112	B
WB0TRA	59,976	196	102	B
KA0DAQ	53,550	170	105	B
WA2MNO	46,992	176	89	B
KC0LBT	31,734	129	82	B
N0PI	30,186	129	78	B
W0HW	14,214	103	46	B
WA2HFI	9,792	64	51	B
WA0MHJ	305,028	458	222	C
W0ZQ	112,560	268	140	C
K0BUD	104,052	299	116	C
KN0V	58,710	190	103	C
W0ML	40,770	151	90	C
WB0IQT	29,889	123	81	C
N0MGQ	3,720	40	31	C
KS0T	26,715	137	65	C 40

Missouri

K2HT	58,305	169	115	B
KM0R	17,484	94	62	B
KC0LUX	3,999	43	31	B
K0DEQ	105,324	268	131	C
K0DAT	59,385	185	107	C
AB0RX	53,508	196	91	C
AA0A	51,813	171	101	C
W0PKO	33,405	131	85	C
WA0FQK	14,100	100	47	B 10
AB0OX	48	4	4	B 10

North Dakota

W19H0	82,110	238	115	B
K0UD	75,210	218	115	B
W0DDAI	32,895	129	85	B
W0CAQ	11,088	77	48	B

Nebraska

N0LGU	71,796	193	124	B
N0WVY	33,654	142	79	B
N0CQI	33,060	145	76	B
KC0NVP	1,725	25	23	B
K0XU	27	3	3	B
K0IL	118,422	306	129	C
WN0L	12,348	98	42	C 15
KB0ARZ	1,674	31	18	B 15

South Dakota

K6VFF	39,744	207	64	B
WB0LUX	32,640	128	85	B
KC0IOX	1,296	24	18	B
KC0OFZ	3,915	45	29	C
K7RE	2,178	33	22	B 10

Maritime-Newfoundland

VE9NC	291,582	501	194	B
VE2ZM (K1ZM, op)	5,150,781	3427	501	C
VE2TT	2,099,997	1983	353	C

Newfoundland-Labrador

VO1ONE	127,575	315	135	B
VO1MX	25,704	126	68	B
VO1TA	1,498,200	1816	275	C
VO1MP	211,464	792	89	B 15

Quebec

VE2AWR	275,232	488	188	B
VE2DO	256,620	470	182	B
VE2LHP	20,670	106	65	B
VE2EM	5,550	50	37	B
VE2AZJ	663	17	13	B
VE2AYU	682,992	816	279	C

Ontario

VE3KZ	168,516	372	151	A
VE3WZ	12,084	76	53	A
VE3NE	430,353	621	231	B
VE3CR	387,000	600	215	B
VE3AGC	293,022	446	219	B
VE3KP	262,305	435	201	B
VE3OM	160,890	310	173	B
VE3JAQ	159,444	309	172	B
VA3SWG	142,857	333	143	B
VA3XRZ	111,612	284	131	B
VE3NBJ	84,366	218	129	B
VE3BDN	59,220	188	105	B
VE3JCV	53,025	175	101	B
VE3KPP	44,745	157	95	B
VE3YQY	28,140	134	70	B
VE3NQM	22,110	110	67	B
VE3EJ	3,876,654	2773	466	C
VE3AT	2,514,078	2217	378	C
VE3UZ	64,539	213	101	C
VE2MGY/VE3	4,059	41	33	B 40
VE3DZ	284,886	833	114	B 20
VE3ZJZ	17,850	119	50	B 20
VE3RCN	32,391	183	59	B 15
VE3OBU	22,446	129	58	C 15
VA3FP	19,656	117	56	C 15
VA3HUN	7,236	67	36	B 15

VE4YU	189,000	375	168	B
VE4HAZ	5,781	47	41	B
VA4AA	1,500	25	20	B 20

Manitoba

VE4YU	189,000	375	168	B
VE4HAZ	5,781	47	41	B
VA4AA	1,500	25	20	B 20

Saskatchewan

VE5QRP	32,868	132	83	A
VE5SF	400,608	624	214	B
VA5DX	1,212,957	1317	307	C

Alberta

VE6ZT	297,045	483	205	B
VE5UA/6	460,920	668	230	C

British Columbia

VE7NS	132,447	371	119	B
VE7KET	176,832	307	192	C
VE7XO	132,750	375	118	C

Northwest Territories

VE1JA	178,500	476	125	C
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KU3X 272,700 505 180 B
NE3H 271,656 392 231 C
K3VA 267,444 437 204 C
K3II 206,052 308 223 C
KB3MM 199,017 351 189 B
AJ3M 91,080 253 120 C
N3MX 51,480 165 104 B
W3UJ 50,760 188 90 C
AA0CY 33,915 133 85 B
K3CT 32,208 122 88 C
W3XG 24,411 103 79 C

4
W4NF 2,553,348 1883 452 C
K5KG 2,072,442 1637 422 C
K4UTE 1,043,460 930 374 B
WD4DDU 1,027,170 1010 339 C
K3KO 721,215 705 341 C
K4YT 713,286 777 306 C
K4SV 605,772 711 284 C
N4VV 549,909 657 279 C
KT4HN 475,308 489 324 C
N4RV 378,300 485 260 C
N4PQX 331,056 456 242 C
WB4MSG 323,475 475 227 C
W4RM 312,984 483 216 C
K8YC 165,438 303 182 C
WB9IHH 78,000 200 130 B
KO4BB 61,248 176 116 B
AD4EB 53,163 179 99 B
WD4GOY 42,210 134 105 C
N4TL 36,549 131 93 C

5
WA5AA 1,083,360 976 370 C
K1NT 793,872 888 298 C
N5ER 409,224 578 236 C
N5JR 370,164 566 218 C
NA4M 327,132 466 234 C
W5LL 221,760 420 176 B
N5MT 82,650 290 95 C
N0RQ 59,136 154 128 B
K5WW 31,488 164 64 B
NE0P 378 14 9 B

6
K6RIM 317,844 486 218 C
W6TE 291,657 509 191 C
W6TK 265,923 441 201 C
K7JJ 145,494 354 137 C
WB6IYM 84,423 263 107 C
N6OU 79,056 244 108 C
W6SZG 77,292 226 114 C
K6EP 72,885 215 113 C
ND2T 71,346 253 94 B
N6WS 60,516 164 123 A
KE6FI 58,473 219 89 B
KJ6RA 49,749 161 103 C
K6KYJ 46,980 174 90 B
K6II 34,410 155 74 C
W6HT 27,813 127 73 C
K6UFO 20,301 101 67 B
W6ZZZ 6,270 55 38 B

7
K7XZ (K1MY, op) 760,320 880 288 C
712,188 876 271 C
W7ZR 416,448 576 241 B
K7ABV 158,400 352 150 C
NJ7I 141,795 345 137 C
KC7DB 93,264 232 134 B
K7OX 61,152 196 104 C
N7XY 52,734 187 94 B
WA7YAZ 28,560 136 70 B

8
N8TR 1,554,597 1149 451 C
N8KM 902,160 840 358 C
N8SNM 381,465 519 245 C
K3JT 337,716 531 212 B
N8U8 311,808 464 224 B
ND8L 277,977 427 217 B
KA8PTT 207,480 364 190 B
KO8HIO (K8ZT, op) 154,656 288 179 B
W8FAX 98,670 253 130 C
WB0WAO 25,992 114 76 B
W8ZA 13,377 91 49 C

9
N2BJ 740,280 796 310 C
W9VV (K9RU, op) 299,880 476 210 C
W9GIG 268,275 365 245 C

N6XWD 230,919 403 191 C
N9IO 210,312 381 184 C
N9NS 209,223 369 189 C
KB9KEG 198,189 361 183 C
NN9K 140,436 282 166 B
K9UQN 140,346 339 138 C
W9XYL 122,607 239 171 B
W9LYN 118,755 273 145 B
N9LF 104,904 248 141 B
K9JS 93,744 186 168 B
NV8V 84,042 203 138 A
KD9AW 75,411 189 133 C
N9TF 35,055 123 95 B
K9IJ 29,412 114 86 B
N9MSG 12,879 81 53 B
N9BT 11,502 71 54 C
KJ9C 1,083 19 19 B

0
K0KX 1,303,560 1207 360 C
W0TM 1,035,099 983 351 C
W0BV 792,414 798 331 C
N0AT 743,688 792 313 C
W0ZA 670,104 984 227 C
N0IJ 542,880 580 312 C
K0XH 470,187 587 267 B
K0IR 290,394 438 221 C
N0IM 250,848 402 208 B
K0DG 195,465 415 157 C
K0UJ 156,078 299 174 C
K0AD 145,008 318 152 C
W0TT 135,168 256 176 C
K0FJ 99,060 260 127 C
WG0M 96,579 219 147 C
K4IU 90,036 244 123 C
WB8ZRL 54,087 149 121 C
W0AMT 23,028 101 76 B
K0UH (K4IU, op) 5,814 51 38 C
K0BX 2,880 40 24 B
VE9XA 556,605 665 279 C
VA3NR 323,904 448 241 C
VE3FU 40,608 141 96 B
VE6JY 451,308 526 286 C
VE6TN 335,160 570 196 B

Multioperator Single Transmitter

1
N1MM (+N1XF, WF1B) 1,494,576 1284 388 C
KA1CRP (+W1ECT) 736,596 948 259 C
W1BK (+W1NR) 728,364 812 299 C
W1QA (+NC1I) 628,200 698 300 C
W1GF (+K1JB) 493,272 663 248 C
W1SMH 29,718 127 78 B

2
KY2J (+WA2JQK) 3,050,475 2225 457 C
K2KQ (+W2WB) 2,440,473 1757 463 C
K2DM (+K3PH, K3ZM) 2,138,934 1778 401 C
AA2MF (+NT2X, N2OW) 1,605,615 1315 407 C
W2YC (+AA2WN) 1,362,354 1141 398 C
W2ZQ (K2QM, KC2DLA, ops) 1,209,600 1120 360 C
WB2KHO (+KB2NOW, AB2PS) 534,492 606 294 B
NJ2YL (+NJ2OM) 189,486 319 198 B
WB2ELW (KA2MGE, KB2KOL, KB2GJX, KC2DGC, WA2YSJ, KB2ESM, K2OO, ops) 179,580 365 164 C

3
NE3F (+K3ATO, NT3V, NZ3G, KA3GWS, KS3F) 1,983,462 1534 431 C
W3LJ (+W3IDT, K3NCO) 639,360 720 296 C
K3DSP (+WR3Z) 385,605 615 209 B

4
K9ES (+AD4ES, W4GKA, W4UUM, AH6NP, KG4IPO) 1,915,749 1569 407 C
KT4Q (+KG4GKJ, KG4PPQ) 780,066 906 287 C
W4WS (W2DZO, KG4NEP, KG4ECI, N0KTY, ops) 336,870 570 197 C
K4WPM (+AD4QB, K4WZ, W4KTR) 170,940 370 154 B
AB4GG (+AG4HG, KG4OVV, KG4RMB) 121,404 268 151 B
KV4CN (+KG4PZQ) 22,356 108 69 B
K4EU (+WB4LSG, KC4CMG) 17,085 85 67 B

5
K5NA (+K5DU, K15DR, N5ZC) 3,062,688 2092 488 C
W5KFT (W5M5R, K5PI, W5TA, ops) 2,041,020 1740 391 C
K5PTC (KD5TMF, W5MF, K7LEX, K5CX, N5EN, N1LN, ops) 1,793,874 1462 409 C
AE5DL (+AE5NL) 189,912 386 164 B
N5RLQ (+KA5KLU) 108,702 297 122 B
KK5K (KD5JXL, WJ5K, KB5MDD, WB4VYB, KD5NSP, KD5RTF, KC5TVI, ops) 103,752 264 131 B

6
W6AQ (+K6YR, W6RCL) 381,600 600 212 B
W6MLP (AA6NX, N2RHV, ops) 9,768 74 44 B
W6TDM (AA6TA, AE6KV, KA6AUR, N7FF, WA6RS, ops) 8,664 76 38 B

7
K7ZSD (+K1Y7, AC7LX, W7ZB) 1,102,332 1193 308 C
W8AEF (+N7MB, W1XT) 709,566 827 286 C
K7UQT (+W7OT) 618,054 862 239 C
N7YX (+N6HR) 607,308 916 221 C
WX7P (+N7VF, KC7ILX, KK6SD) 393,432 676 194 C
K7RDG (WB6OTS, KD7OED, KB0TO, WA6MJJ, KK7NO, KD7PEH, KD7HAB, KD7SSN, ops) 92,820 260 119 C
NB7V (+KC7JGQ) 38,127 179 71 C

8
K8AZ (+K8BL, K8MR, K8NZ, W8KIC, WT8C) 3,893,400 2575 504 C
K8CC (+K8KHZ, KE8OC, N8NX, W8MJ, WD8S) 2,830,884 2012 469 C
W8LBZ (N8HC, K18BC, W8VMW, N8CF, N8WXD, ops) 97,929 279 117 C
N8UZE (+KB8BSG) 53,955 165 109 B
KC8ELY (N8NJE, N8ESW, N8MMF, N8MPO, ops) 31,680 132 80 B
W8CVOA (W8FEJ, W8CDA, W8ND, KC8PTP, K8DEV, ops) 26,733 133 67 B
W8ID (K8ARL, K8RHC, ops) 24,864 112 74 B
W8TNX (W8CRZ, W5UHQ, KC8PQL, W8NM, N2KNC, KC8EVM, KC8TKZ, N8WL, ops) 20,790 126 55 B

9
KD9ST (+KA9SQR, KA9SQS, KB9EXE) 1,675,590 1414 395 C
K9QT (+K9NR) 99,975 215 155 B

K9USA (KC9AZZ, KC9BAA, KC9BAD, KA6A, ops) 70,794 207 114 C
W9YB (N9WEW, N8WU, KB9SZW, KB9VOR, KC9AXJ, KC9CYK, ops) 31,464 138 76 B
KB9CQZ (+KB9UMI) 26,334 114 77 B

0
N0NI (+W00V, W0FLS, K0KD, W0ETC) 3,020,841 2111 477 C
W0AA (KM00, W0ZQ, W0ZT, K0SR, ops) 1,354,158 1286 351 C
KA0GGI (+K0RAY) 387,000 500 258 B
WB0NNI (+WB0RWH) 186,873 373 167 C
K0JA (+K0JE) 126,312 277 152 C
KE0FT (+KC0PDX) 118,860 283 140 C
W0EF (WB0N, K0AD, K0BUD, ops) 110,880 264 140 C

VE3RM (+VE2NI, VE3WIB) 2,160,300 1895 380 C
VE3UOT (+VE3GD, VE3KKZ) 66,708 218 102 B
VE7FO (+VA7IRL) 150,336 348 144 C

Multioperator Two Transmitters

K4JA (+W3BP, K9JY, K4MA, AJ9C, KE9I) 8,444,799 4763 591 C
N3RS (+KF3B, KQ3F, NA2U, N3ED, N3RD) 7,295,280 4304 565 C
N2NT (+W2GD, N2WKS) 6,306,300 3850 546 C
VE1JF (+VE1AI, VE1DHD, VE1HS, VE1JS, VE1MOO, VE1OP, VE1QD, VE1SKY) 3,338,424 2388 466 C
NK7U (+K7ZO, W7ZRC, KW7J, KL9A, KL2A, AC7GL) 3,246,831 2583 419 C
AA5NT (+KB5RBX, N1CC, N3BUO, N5NJ, N5SAM, NM5M, NW5X) 2,944,308 2251 436 C
W6NV (+KX7M, N6KJ, W6SC) 2,417,436 2226 362 C
N5YA (+N5UM, NN7L, N5KR) 2,350,908 1964 399 C
K1KI (+KM1P) 2,276,724 1679 452 C
K6IDX (+W6OAT, K0BEE, W1SRD, K2RD) 1,948,260 1709 380 C
K3DI (+W3ICM, W3OQ) 1,740,996 1412 411 C
KK1L (+WE1H, W1SJ) 1,575,600 1616 325 C

VE6SV (+VO1CV, VA6SZ, VE6JO, VE6NAP, VE6VW, VE6AKY) 1,567,704 1574 332 C
VE6FI (+VE6AQ, VE6ZA) 1,410,948 1527 308 C
K3OO (+K3OOO) 1,242,360 1190 348 C
W4SAA (+W4ARM) 807,030 854 315 C
VE5RI (+VE5FN, VE5WI) 784,980 1068 245 C
W1SRG (AG1C, K1RDD, KB1JFG, W1LMP, ops) 764,664 844 302 C
W4UOT (NQ4U, N0EUU, KG4LYZ, KG4QIM, KG4PPZ, KZ4V, KG4WSX, ops) 635,922 686 309 B
VE9GLF (+VE9MY, VE9SAB, VE9TNT, VE9BL, VE9CBC) 443,904 544 272 C
K6AA (KB6WKT, K1SL, KB6ATT, W6HB, W7XL, K6NT, AE6JG, ops) 404,595 555 243 B
KL1R/W7 (+WQ7R) 54,426 193 94 B

Multioperator Unlimited Transmitters

KC1XX (+K1AR, K1DG, K1TR, N2AA, W2RQ, AD1C, W1FV, K1GQ) 11,997,834 6338 631 C

W3LPL (+K1HTV, K1RA, K1RZ, W2GG, K3FT, AI3M, NK3R, K3RA, W3UR, KD4D, K4ZA, 11,426,283 6017 633 C
 K9NS (AA9D, K9DX, K9GS, K9HMB, K9NO, K9PW, K9QVB, K9RO, K9RS, KS9W, W9RM, 8,523,369 4759 597 C
 W4MYA (+K4WMA, KC8FS, KF4QQY, N4DEN, NW4V, W4DR, W4PFM, W4TNX, WA4PGM, 7,157,916 4164 573 C
 W1FJ (+K3NA, W1KM, NB1B, N1DS, K2AJY) 7,036,623 4181 561 C
 K1RX (+KF1V, N1IX, K1EO, K1FOO, KC1Q, K1UQ) 6,753,834 4146 543 C
 W2FU (+K1PY, N2PP, K0SM, K2DB, N2IM, KV2X) 5,631,246 3489 538 C
 W3PP (+N3KW, WM2H, WK2W, WV8RS, WB4FDT, NW3Y, N3PT, W3OR) 5,566,686 3449 538 C
 K1TTT (+W2AU, W2GB, VA3PL, K1MK, W1TO, K1EP, W1EQO, K2WR) 5,454,225 3463 525 C
 N2RM (+NA2AA, W2DTA, N2VV) 5,404,620 3380 533 C
 KB1H (+K1EBY, N1XS, KB1DFB, W1TJL, AA1CE, N2PGD, N1NK, WB2VVV) 4,685,445 3105 503 C
 N3AD (+K3ZV, N3DXX, N2MM) 4,626,810 3054 505 C
 W0AIH (+WR0DK, KT0R, K0OB, AE9D, N0KK, N0HJZ, K0TG, N0AK, K9MU, N9TXX, ops) 3,500,070 2381 490 C
 K0TV (+KW1DX, K1HI, K2TE, W1IA, K1BDQB, AB1CA, N1IW, WO1N, K16MF, KD6BLK, 3,366,891 2343 479 C
 N2BA (+K2BMI, KA2FI) 2,583,870 2003 430 C
 W2XL (+KD2NE, N2MCI, N2SA) 1,946,094 1634 397 C
 W2CG (+K2WJ) 540,675 675 267 C
 VE7SCC (VE7HHS, VA7DX, VE7KBH, VA7KBH, VE7KED, VE7MVF, VE7LYD, ops) 406,818 582 233 C
 KB5TX (KK5RZ, KD5TEF, KC5OEG, W0ZXO, KM5SY, N5DXV, KD5PEG, W5XW, KD5MXD, 226,728 402 188 B
 W4MOT (KG4CHW, N4CU, KD4GR, KG4MLC, KE4NNF, KF4MXS, AF4YS, K14US, K9WLF, 120,900 260 155 B
 WA6BMH (W7CWW, KA6WZR, KO6WZ, KW6PE, KE6BBP, ops) 8,760 73 40 C

DX
Single Operator
Africa
Morocco
 CN2R (W7EJ, op) 5,606,205 6127 305 C
Madeira Islands
 CT3KY 4,410 42 35 B
 CT3KU 2,592 48 18 B 20
Angola
 D2BB 140,100 467 100 B
Cape Verde
 D4B (4L5A, op) 7,604,190 7681 330 C
 D44TD (IK4UPB, op) 666,900 3705 60 C 15
Canary Islands
 EA8BH (OH2BH, op) 7,096,209 7019 337 C
 EA8AZM 1,734 34 17 C
 EA8AKN 107,730 665 54 B 10
Egypt
 SU9NC 541,008 1156 156 B

Asia
Georgia
 4L6AM 95,094 587 54 C 20
Singapore
 9V1UV 690 23 10 B
 9V1YC 13,680 114 40 C
Bahrain
 A92ZE 8,280 69 40 C
 China
 BY1DX (AA1IZ, op) 1,008 21 16 B
 BW4/UA3VCS 1,890 63 10 B 80
 BD5RI 78,255 555 47 C 15
Kyrgyzstan
 EX2X 37,800 280 45 C 20
 EX8AA 15,651 141 37 B 20
 EXT7ML 1,680 35 16 C 15
South Korea
 HL2FDW 3,819 67 19 B
 HL3G0B 103,680 384 90 C
 HLSUOG 46,530 165 94 C
Thailand
 E21CJN 25,650 171 50 C
 E21E1C 3 1 1 B 15
Japan
 JR4DAH 81,771 281 97 A
 JA2MWW 31,110 170 61 A
 JAWWFM 28,014 161 58 A
 JR1NKN 4,800 64 25 A
 JI8GZS/1 150 10 5 A
 JH4UYB 815,556 1387 196 B
 JH7XMO 603,747 1137 177 B
 JR4PMX/1 189,243 489 129 B
 JA3AOP 89,694 302 99 B
 JA5EO 78,810 370 71 B
 JA2BY 70,752 268 88 B
 JA9XBW 27,435 155 59 B
 JA1GYO 22,344 133 56 B
 JA1IZ 21,060 135 52 B
 JA3PYC 19,812 127 52 B
 JR1WVY 19,116 108 59 B
 JA2GHP 18,753 133 47 B
 JR7UOL 15,984 111 48 B
 JA1BUI 14,355 87 55 B
 JA9TQY 13,482 107 42 B
 JA4AUX 13,080 109 40 B
 JA1XQR 12,360 103 40 B
 JE7DOT 11,685 95 41 B
 JQ1AHZ/2 8,118 82 33 B
 JG2RE 8,094 71 38 B
 JR1MRG 7,350 70 35 B
 JA1HG 5,859 63 31 B
 JE1REU 4,368 52 28 B
 JH1BCS 3,780 60 21 B
 JA2TKO 3,726 46 27 B
 JJ0AEB 3,300 50 22 B
 JA1PYP 2,376 36 22 B
 JE8KKX 2,040 34 20 B
 JH1RDU 1,998 37 18 B
 JL3RDC 1,287 33 13 B
 JA1SJR 663 17 13 B
 JA1IZZ 324 12 9 B
 JF9DSJ 126 7 6 B
 JH5FXP 1,774,080 2464 240 C
 JA1ELY 1,482,615 2103 235 C
 JH1EAQ 1,061,910 1710 207 C
 JA6GCE 944,490 1657 190 C
 JA3USA 705,978 1293 182 C
 JA2FSM 198,720 552 120 C
 JA7JHT 126,654 418 101 C
 JF2BDK 91,164 284 107 C
 JI1EFP 52,002 214 81 C
 JA1MSS 33,264 176 63 C
 7J1ABD 22,032 136 54 C
 JA1TGC 13,365 99 45 C
 JL1ANP 4,611 53 29 C
 JE1SPY 306 17 6 B 80
 JS2LGN (JA7KAC, op) 50,643 331 51 C 40
 JH1AEP 31,200 260 40 C 40
 JA8NFB 29,970 222 45 C 40
 JH1AZO 19,872 184 36 C 40
 JA3LKE 7,008 73 32 B 20
 JE1GZB 3,300 50 22 B 20
 JU2PUG 3,225 43 25 C 20
 JH1UUT 2,646 49 18 B 20
 JH0EPI 1,377 27 17 B 20
 JG5DHX/5 36 4 3 B 20

JA7NVF 234,879 1327 59 C 15
 JR3NZC 173,826 999 58 C 15
 JQ2EHG 137,928 821 56 C 15
 JA7BJS 126,036 778 54 C 15
 JA5APU 51,408 357 48 C 15
 JA9VOK 38,676 293 44 B 15
 JR9NVB 37,152 288 43 B 15
 JA1MZM 23,985 195 41 B 15
 JR4GPA 16,872 152 37 B 15
 JH8DHF 12,285 117 35 B 15
 JQ1COB 10,620 118 30 B 15
 JA1PUK 8,085 77 35 B 15
 JA1XPU 7,743 89 29 B 15
 JA9CCG 4,968 69 24 C 15
 JE1RRK 4,575 61 25 B 15
 JF2FIU 3,840 64 20 C 15
 JA3PYH 3,654 58 21 B 15
 JR1SGU 3,519 51 23 B 15
 JI8BUR 3,465 55 21 B 15
 JF7GDF 3,213 51 21 B 15
 JH0NVX/1 3,162 62 17 B 15
 JH2BTM 2,970 45 22 C 15
 JP1SRG 2,106 39 18 B 15
 JA3BBG 2,106 39 18 B 15
 JH1RMH 2,016 42 16 B 15
 JH1OLB 1,800 40 15 B 15
 JD1BIA 1,638 42 13 B 15
 JA2BIL 1,620 30 18 B 15
 JL7AIA 1,305 29 15 B 15
 JH0NEC 1,302 31 14 B 15
 JA8TEZ 1,056 32 11 C 15
 JA7ADV 936 24 13 B 15
 JA1PTO 627 19 11 B 15
 JG1GCO 495 15 11 B 15
 JK1BII 450 15 10 B 15
 JF2FKJ 120 8 5 B 15
 JE7ENK/7 18 3 2 B 15
 JR3KAH 12 2 2 B 15
 7J2YAF (JA1KSO, op) 167,409 979 57 C 10
 JH1OCC 51,840 360 48 C 10
 JF3BFS 43,335 321 45 B 10
 JG2TKH 36,801 261 47 B 10
 JJ1RDX 18,144 144 42 C 10
 JH1CML 14,652 132 37 C 10
 JK1AFI 10,914 107 34 B 10
 JI1HFJ 8,820 98 30 B 10
 7N2UQC 4,623 67 23 B 10
 JA6EFT 4,599 73 21 B 10
 JA1AAT 2,700 50 18 B 10
 JA6QDU 2,142 42 17 B 10
 JA3LFC 1,443 37 13 A 10
 JA1TCF 936 24 13 B 10
 JH9JVW 897 23 13 B 10
 JH1TUX 456 19 8 B 10

Mongolia
 JT1CO 78,120 434 60 C
 JT1BV 34,776 252 46 B 20

Lebanon
 OD5/OK1MU 32,319 189 57 C

Asiatic Russia
 UA9AMF 67,728 332 68 B
 RK9CZO (RX9CAZ, op) 15,759 103 51 B
 UA0SMF 3,726 54 23 B
 UA9JDP 99,120 472 70 C
 RU9WX 93,438 358 87 C
 UA9FM 37,107 217 57 C
 RU0LL 11,088 84 44 C
 RK9QWZ (UA9QFF, op) 1,674 31 18 C
 RW9QA 147 7 7 C
 RA0FN 2,142 51 14 C 80
 RW0CF 720 40 6 C 80
 RZ9HG 122,094 714 57 C 20
 UA0ANW 100,278 619 54 C 20
 UA0AZ 42,453 267 53 C 20
 UA0SJ 22,554 179 42 B 20
 UA9HN 19,479 151 43 C 20
 RA9AU 16,539 149 37 B 20
 UA0ACG 9,384 92 34 C 20
 RZ9IR 9,021 97 31 C 20
 RU0AT 7,296 76 32 C 20
 RA9FLW 7,275 97 25 B 20
 RZ9UGN 4,914 63 26 B 20
 RZ9IB 3,312 48 23 B 20
 RX9CEL 3,234 49 22 B 20
 RS0F (UA0FZ, op) 124,092 766 54 C 15

Kazakhstan
 UQ1D 46,452 316 49 C 20
 UN7JX 39,624 254 52 B 20

Hong Kong
 VR2BG 17,136 112 51 C

Laos
 XW1N 10,098 99 34 B

Europe
 ITU HQ 4U1ITU (OM3CGN, op) 66,270 470 47 C

Croatia
 9A2OU 4,617 57 27 B
 9A3QB 2,208 32 23 C
 9A4D (9A5WA, op) 8,640 120 24 C 80
 9A8M 182,310 1030 59 C 15
 9A7ZZ 9,600 100 32 B 15
 9A4X 115,596 741 52 C 10
 9A5V 47,880 380 42 B 10
 9A2GA 3,402 54 21 B 10

Malta
 9H1DE 28,875 175 55 B

Portugal
 CT1EAT 1,111,038 1909 194 B
 CQ0BWW (CT1BWW, op) 772,977 1349 191 B
 CT1BOP 369,294 2018 61 C 15

Azores
 CU2CE 114,162 718 53 B 10

Fed. Rep. of Germany
 DF1DX 25,821 151 57 A
 DJ3GE 17,940 115 52 A
 DL4NT 10,680 89 40 A
 DL6KAC 77,964 292 89 B
 DL1DTL 46,560 194 80 B
 DL8SDC 43,362 198 73 B
 DK7FP 41,652 178 77 B
 DH5AO 30,528 159 64 B
 DK5JM 28,566 138 69 B
 DL1ARD 11,316 82 46 B
 DL6DVU 8,514 66 43 B
 DH1OK 7,884 73 36 B
 DL8DXL 6,840 60 38 B
 DL1DUO 5,100 50 34 B
 DL5YY 1,523,970 2065 246 C
 DH1TW 1,310,760 1986 220 C
 DL2DX 409,077 981 139 C
 DK6WL 386,484 749 172 C
 DJ1AA 379,503 849 149 C
 DL5ME 279,240 716 130 C
 DJ3HJ 193,836 557 116 C
 DJ9AO 162,756 411 132 C
 DL4YAO 51,264 192 89 C
 DL2QT 42,984 199 72 C
 DL3BRC 41,796 172 81 C
 DL1PT 40,194 174 77 C
 DL3APO 22,464 117 64 C
 DH9SB 18,900 105 60 C
 DL5FU 16,665 101 55 C
 DL7CX 510 17 10 C 160
 DK7AN 900 25 12 B 80
 DJ2YE 702 18 13 B 40
 DJ7EO 300,120 1640 61 C 20
 DK2YO 349,530 1910 61 C 15
 DF9ZP 289,800 1610 60 C 15
 DJ8FR 82,992 494 56 C 15
 DL5KUT 62,646 394 53 C 15
 DL5RMH 68,840 370 44 C 15
 DL4WA 22,920 191 40 C 15
 DL3ZAI 14,820 130 38 B 15
 DF1RK 4,176 58 24 B 15
 DF7YU 46,980 348 45 B 10
 DJ6XB 210 10 7 B 10

Spain
 EA7RM 867,456 1506 192 B
 EA1WS 633,840 1520 139 B
 EA3KU 454,032 1051 144 B
 EA1UY 128,304 528 81 B
 EA1OT 100,152 428 78 B
 EA7EWX 54,648 207 88 B
 EA3NA 53,730 199 90 B
 EA3AKA 48,825 217 75 B
 EA1CS 44,814 194 77 B
 EA1WX 15,132 97 52 B
 EA1CYU 1,575 25 21 B
 EA5DFV 1,564,938 2298 227 C

EA1DDO	1,469,412	2499	196	C	GM4YXI	2,038,149	2603	261	C	I2ODL (IK2YSA, op)					ON4AAM	127,575	525	81	C		
EA1AKS	843,465	1385	203	C	Guernsey					89,892	681	44	C	10	OR3T (ON4UN, op)						
EA1CUB	283,140	715	132	C	MU0FAL	83,628	303	92	B	IK8HCG	30,804	302	34	B	10	89,817	611	49	C	80	
EA5KV	228,636	522	146	C	Wales					IZ4AFW	22,041	237	31	C	10	ON4XG	11,286	99	38	B	15
EA5KB	124,209	373	111	C	GW0GEI					IK2TDM	12,717	157	27	B	10	Denmark					
EA3MR	39,894	218	61	C						IZ0CEY	1,881	33	19	C	10	OZ1ACB	52,560	219	80	B	
EA5BY	10,692	132	27	C	80					IK2RPK	405	15	9	B	10	OZ7AEI	855	19	15	B	
EA1DLU	121,128	721	56	C	40					Sardinia					OZ1HXQ	939,120	1505	208	C		
EA1AAW	14,097	127	37	B	20					IS0VSG	107,565	355	101	B	Netherlands						
EA4WC	10,260	114	30	B	20					IS0LLJ	74,451	299	83	B	PA3BAY	7,839	67	39	A		
EA3ESJ	4,002	58	23	B	20	Hungary				PA9TT	1,836	34	18	A	PA0KHS	95,811	293	109	B		
EA3FHP	1,920	40	16	B	20	HG5Z	9,480	79	40	A	PA3GVI	79,083	261	101	B	PA8MO	56,523	227	83	B	
EA3BIP	27	3	3	B	20	HG9M	33,972	149	76	B	PA3AAV	41,832	168	83	B	PA2NUN	37,422	154	81	B	
EA5FID	47,628	324	49	C	15	HA8FW	24,957	141	59	C	PA0COR	35,784	168	71	B	PA0CYW	31,050	150	69	B	
EA3KT	30,174	214	47	B	15	HA6IGM	432	16	9	B	20	PA3GBI	22,680	126	60	B					
EA3NO	23,760	198	40	C	15	HA8JV	192,420	1069	60	C	15	PA3GGW	16,050	107	50	B					
EA1FD	9,306	94	33	C	15	HA3NU	162,840	920	59	C	15	PA0KDM	16,023	109	49	B					
EA4DJJ	198	11	6	B	15	HA3DMF	8,550	95	30	B	15	PA7DA	10,428	79	44	B					
EA4WF	248,472	1479	56	C	10	HA5FA	969	19	17	B	15	PA0ADP	9,804	76	43	B					
EA5ON	184,281	1159	53	C	10	HA5BA	840	20	14	B	15	PA0EHF	9,240	88	35	B					
EA7HBP	130,464	906	48	B	10	HA9PP	9,990	111	30	C	10	PB7RP	8,040	67	40	B					
EA1BXQ	6,240	80	26	B	10	Switzerland					PA3ELD	3,612	43	28	B						
EA7GSU	4,968	69	24	C	10	HB9DDS	11,718	93	42	A	PA1FIB	3,150	35	30	B						
Ireland					HB9DNQ	39,579	167	79	B	PA5BM	2,325	31	25	B							
EI4DW	66,435	215	103	C	HB9FAP	1,211,955	1879	215	C	PA0IJM	106,272	328	108	C							
EJ9HQ	125,736	806	52	B	20	HB9DDO	506,574	1062	159	C	PA0JNH	59,340	215	92	C						
EI4CF	119,448	711	56	B	15	HB9CIP	24,087	217	37	C	10	PA0MIR	11,934	117	34	B	20				
Moldova					HB9ACA	8,784	122	24	B	10	Slovenia										
ER3CT	30,876	166	62	B	Italy					S57MTA	66,300	325	68	B							
ER5Z	25,545	131	65	B	I5KAP	7,455	71	35	A	S51NZ	20,592	132	52	B							
ER3DX	67,500	300	75	C	IR4R	195,111	489	133	B	S57MHA	3,150	70	15	B							
ER0ND (UT7ND, op)					IK3SCB	154,200	514	100	B	S50O	25,056	232	36	C	80						
	20,460	220	31	C	80	IZ5EEL	137,547	493	93	B	S58A	289,323	1581	61	C	15					
Estonia					IK2THN	103,494	367	94	B	S51TA	272,403	1539	59	C	15						
ES6KW	4,836	52	31	B	IV3RJT	84,900	283	100	B	S59W	152,424	876	58	B	15						
ES5TV	12,246	157	26	C	80	IZ5FDD	76,884	298	86	B	S51FB	76,437	447	57	C	15					
ES6MT	1,824	32	19	B	15	IZ2ABN	53,286	214	83	B	S57UYX	58,050	387	50	C	15					
Belarus					IV3WMS	49,296	208	79	B	S50R	55,566	343	54	B	15						
EW1CQ	14,985	111	45	C	IU3A	46,872	248	63	B	S58D	146,610	905	54	C	10						
EW6MM	966	23	14	B	20	IZ8DDG	41,238	174	79	B	S50K	116,127	759	51	C	10					
EW8MW	43,332	314	46	C	15	IK7RVY	41,004	204	67	B	Sweden										
EW6CU	3,726	54	23	A	15	IZ0EHL	35,292	173	68	B	SM5ARL	9,900	75	44	A						
EW1GA	144	8	6	B	15	IZ4DYQ	31,329	177	59	B	SM7BJW	38,592	192	67	B						
France					I4G	30,600	170	60	B	SM5U (SM5UGC, op)											
F5BEG	192,924	466	138	A	IZ7EDQ	27,027	143	63	B		35,700	175	68	B							
F6DZU	604,827	1179	171	B	IK6OIN	23,643	111	71	B	SM4V (SM4VPZ, op)											
F8AAN	81,900	350	78	B	IZ7CDB	22,479	127	59	B		20,988	132	53	B							
F6LQJ	55,965	205	91	B	IZ8DPO	19,980	111	60	B	SM0BDS	16,800	112	50	B							
F5INJ	39,984	196	68	B	IK7WPD	18,762	118	53	B	SM6IQD	16,218	102	53	B							
F5AXG	34,155	165	69	B	IK8NRW	15,264	96	53	B	7S3A (SM3CER, op)											
F5TVL	26,289	127	69	B	IZ5DKF	15,264	106	48	B		6,438	58	37	B							
F5MLJ	22,650	151	50	B	IZ1ANZ	13,332	101	44	B	SM3EAE	3,696	44	28	B							
F6HIQ	18,360	120	51	B	IV3TYS	13,113	93	47	B	SM3XRJ	1,500	25	20	B							
F5TYT	11,439	93	41	B	IK2WZQ	13,110	95	46	B	8S0W (SM0NJU, op)											
F6FRA	9,675	75	43	B	I8TWB	11,094	86	43	B		429	13	11	B							
F8DEZ	8,073	69	39	B	IZ2EIH	10,800	75	48	B	8S4Z (SM4SET, op)											
F5NBK	3,075	41	25	B	I0YQV	8,487	69	41	B		87,021	293	99	C							
F5NQL	1,680	28	20	B	IK0UTM	5,304	52	34	B	SM7DXQ	25,344	132	64	C							
TM5A (F5VHJ, op)					IK4MGJ	3,510	39	30	B	SM5ALJ	3,864	46	28	C							
	1,864,380	2702	230	C	IV3NTX	3,360	40	28	B	7S2E (SM2DMU, op)											
F5LJA	635,325	1075	197	C	IZ1DLY	1,980	33	20	B		320,433	1751	61	C	20						
F5BBD	115,920	336	115	C	IK2WYI	1,104	23	16	B	SM7BHM	15,855	151	35	C	20						
F5RAB	31,755	145	73	C	IR4T (I4UFH, op)					SM6C (SM6CTQ, op)											
F5NBX	149,466	859	58	C	15						3,384	47	24	B	20						
F6DRP	32,535	241	45	B	15	IR4A	1,412,073	1937	243	C	SM5INC	37,872	263	48	C	15					
F8AKS	19,065	155	41	B	15	IO4C	1,059,600	1766	200	C	SM6BSK	16,614	142	39	B	15					
F5LIW	17,343	141	41	B	15	IR4B (IK4AU, op)					Poland										
F6CLM	2,280	40	19	B	15					SN3R (SP3RBR, op)											
England					IK4ADE	466,470	1095	142	C		441,327	937	157	B							
G0DCK	26,100	145	60	A	IK2SND	109,872	336	109	C	3Z6V (SP6DPV, op)											
M8C (G4DBL, op)					IK2A0O	55,380	260	71	C		53,382	217	82	B							
	11,070	90	41	A	IZ2ACG	33,930	174	65	C	SP3KRE (SQ3HTX, op)											
G4XBL	44,676	204	73	B	I4AVG	53,325	395	45	C	80		31,842	174	61	B						
G4NXG/M	32,469	137	79	B	IK1RLI	14,703	169	29	C	80	SQ8FEW	19,965	121	55	B						
G0/N9LYE	25,071	137	61	B	IU9S (IT9BLB, op)					SP4SHD	17,472	104	56	B							
G4PIQ/P	23,085	135	57	B						SQ9ZM	12,015	89	45	B							
M3C (G0VQR, op)					IT9STX	295,020	1639	60	C	20	SP4CQU	10,626	77	46	B						
	10,836	84	43	B	IK8UND	216,672	1184	61	C	20	SP1DMD	7,800	100	26	B						
M0COP	8,103	73	37	B	IV3LBP	189	9	7	B	20	SP1JON	3,198	41	26	B						
G4BUO	555,390	990	187	C	IY4W (I4LEC, op)					SP5DRH	2,664	37	24	B							
G0MTN	499,731	1061	157	C						SP1MVG	1,767	31	19	B							
G3UFY	34,992	162	72	C	IK2DUU	303,300	1685	60	C	15	SN7Q	1,840,050	2610	235	C						
G3RTE	94,605	595	53	C	15	IK2PTR	191,922	1103	58	C	15	SP8BRQ	884,601	1467	201	C					
G4IY	18,252	156	39	B	15	IT9ZMX	155,904	896	58	C	15	SP9LJD	543,840	1133	160	C					
G0AEV	88,200	588	50	C	10	IV3WMI	129,420	719	60	C	15	SP6EKS	414,120	812	170	C					
G0VOK	3,888	54	24	B	10	IK2UCK	46,944	326	48	C	15										
Scotland					IZ3ESV	8,091	87	31	B	15											
GM0EGI	23,490	135	58	B	IK1SPR	7,227	73	33	C	15											
					I1COB	5,694	73	26	C	15											
					IZ4AQL	2,160	36	20	B	15											
					IV3KSE	882	21	14	B	15											

SP3KFH (SP3JHY, op)	22,236	218	34	C	80	UV7D (UT7DX, op)	98,112	584	56	C	15	Guatemala	TG9ASO	50,337	329	51	B	40	XQ1SCQ	145,416	664	73	B			
SP6LUV	3,720	62	20	C	80	UZ7U (UT3UA, op)	69,888	448	52	C	15	Costa Rica	T15N	1,944,441	2603	249	A		CE4Y (CE4FX, op)	396,540	2203	60	C	10		
SP6IXF	64,584	414	52	C	40	US7IGF	22,263	181	41	B	15		DK8TU/T18	874,158	1637	178	B		Bolivia	CP1FF	5,040	48	35	B		
SP6FJ	7,020	78	30	B	20	UT7DK	32,841	267	41	C	10		T12DLL	174,924	516	113	B		Uruguay	CX7BF	62,550	278	75	B		
SP7LHX	12	2	2	B	20	Latvia							T10RC (T14ZM, op)	127,542	733	58	B	10		CX7BY	168,858	954	59	C	15	
SO2R (SP2FAX, op)	329,760	1832	60	C	15	YL2NK	7,326	74	33	B			V26P (W5AJ, op)	5,420,727	5629	321	B			CX5BW	525,027	2869	61	C	10	
SN3A (SP3GEM, op)	249,480	1386	60	C	15	YL2KO	474,957	1077	147	C			5,420,727	5629	321	B			CX8CP	423,030	2390	59	C	10		
SN8F	104,328	621	56	C	15	YL2GD	210,141	543	129	C									CX4DX	137,142	802	57	B	10		
SP4PBI (SP4Z, op)	60,192	418	48	B	15	YL2KF	86,832	536	54	C	15	Antigua & Barbuda	V26P (W5AJ, op)	5,420,727	5629	321	B			Ecuador	HC1HC	704,436	1249	188	A	
SP3BVI	15,678	134	39	B	15	Romania													Colombia	HK3AXY	419,085	1005	139	B		
SP4XQN	11,118	109	34	B	15	YO4AAC	2,820	47	20	A									Argentina	LU3DR	305,802	809	126	A		
SP5AKG	8,670	85	34	A	15	YO3APJ	170,235	485	117	B										LT5H (LU2HF, op)	1,378,080	2610	176	B		
SP9PDF (SP6AXW, op)	4,617	57	27	B	15	YO3CZW	62,496	217	96	B										LV7H	1,151,376	2312	166	B		
SQ4NR	3,864	56	23	B	15	YO7ARY	34,719	163	71	B										LV0N	1,037,568	1792	193	B		
SP6AXW	1,131	29	13	B	15	YO4GNJ	528	16	11	B										LU1FF	499,320	1095	152	B		
SP7FBQ	216	9	8	B	15	YO9HP	62,652	227	92	C										LU9HO	282,600	785	120	B		
SP9FJA	37,224	282	44	B	10	YO2BEH	3,591	57	21	C	40									LU5EVK	146,880	510	96	B		
SP4D	13,440	140	32	C	10	YP3A (YO3GOD, op)	141,120	840	56	C	20									LU1AS	143,682	622	77	C		
SP2EXN	7,917	91	29	B	10	YO6QT	1,620	36	15	B	20									LU1NDC	2,598,732	3902	222	C		
SP3FYX	3,975	53	25	C	10	YO3RU	4,950	66	25	C	15									LU7DW	856,710	1710	167	C		
HF7OI (SP6IHE, op)	1,566	29	18	B	10	Yugoslavia														LT0H (LU3HY, op)	298,080	1656	60	C	20	
HF70G	231	11	7	B	10	YZ1Z (YZ1DO, op)	19,992	119	56	A											AY8A (LU8ADX, op)	257,481	1407	61	C	15
SQ9UM	210	14	5	A	10	YT7TY	5,775	55	35	A											L44DX (LW1DTZ, op)	204,594	1118	61	B	15
Greece						YZ1V	1,092	28	13	B	80										LU1HF	481,473	2631	61	C	10
SV1BJW	45,162	193	78	B		YZ9A	60,480	420	48	C	40										LU6ETB	476,718	2563	62	C	10
SV8CS	241,395	605	133	C		YU1JW	242,490	1370	59	C	15										LO7H	377,010	2130	59	C	10
SV1GYG	41,172	188	73	C		YU1AU	217,533	1229	59	C	15										LU9EOC	295,452	1698	58	B	10
SV2AEL	2,109	37	19	B	15	YT9X (YU1ZZ, op)	177,480	986	60	C	15										LU5FII	276,120	1560	59	B	10
Bosnia-Herzegovina						YT7Z (YU7EU, op)	108,192	644	56	C	15										LU4DX	229,680	1320	58	B	10
T97J	10,920	130	28	C		4N1N (4N1LB, op)	102,312	609	56	B	15										LU1VEW	189,567	1071	59	B	10
Iceland						YZ7A (YU7CM, op)	37,044	343	36	B	10										LR1F	173,880	1035	56	B	10
TF3MA	21,375	125	57	B		YU7KM	6,552	84	26	B	10										LT1A (LU3CT, op)	171,912	988	58	A	10
TF3AO	810	18	15	C		YU1EQ	5,976	83	24	B	10										LU8DW	159,036	914	58	B	10
TF3VS	1,122	22	17	B	15	Macedonia															LU4HW	106,272	656	54	B	10
European Russia						Z36W	7,992	74	36	C											LU8CM	60,450	403	50	B	10
UA3BL	19,965	121	55	A		Z35G	19,740	188	35	C	10										LU5DIT	11,856	104	38	B	10
RW6HJV	5,841	59	33	A		North America															LU1IBL	240	10	8	B	10
RV3AR	1,173	23	17	A		Barbados															Aruba	P4/K2LE	282,897	731	129	B
RV3FF	57,681	221	87	B		8P1A (W2SC, op)	9,272,472	9064	341	C											P43E	119,271	479	83	B	
UA4FER	42,642	206	69	B		8P9NX (W0SA, op)	1,582,632	2586	204	C											Brazil	PY2NA	524,832	1136	154	B
RL3AW	28,440	158	60	B		Cuba															PR7FN	333,597	919	121	B	
RN1AO	1,995	35	19	B		CO2JG	1,282,365	2065	207	B											PY7IQ	313,728	817	128	B	
UA4ACP	1,242	23	18	B		CO8ZZ	123,816	737	56	C	80										PY7EG	218,178	713	102	B	
RW1QN	1,104	23	16	B		CM8WAL	319,368	1901	56	B	10										PP7ZZ	179,220	515	116	B	
RX3DCN	882	21	14	B		CO8TW	260,820	1610	54	B	10										PP2KR	53,922	209	86	B	
RX3MM	840	20	14	B		CO2TK	179,163	1171	51	B	10										PY3SB	53,199	257	69	B	
RK4FF	690,261	1609	143	C		CM6LPB	6,912	96	24	B	10										PY2DJ	4,950	50	33	B	
RD4M (UA4LU, op)	148,410	510	97	C		Martinique															PY3ML	3,960	40	33	B	
UA4LCH	78,570	485	54	C		FM5GU	224,082	1266	59	C	80										PY2NDX	3,828	58	22	B	
UA3TCJ	33,345	195	57	C		Dominican Republic															PY3PA	571,212	1161	161	C	
RV1CC	30,378	166	61	C		HI3TEJ	1,255,881	2003	209	A											PV8DX	274,950	650	141	C	
UA3BM	15,876	108	49	C		HI8ROX	293,454	714	137	B											PT7WA	103,305	355	97	C	
RZ3TZA	4,836	52	31	C		Panama															PY4RO	94,860	372	85	C	
RN6FA	2,550	34	25	C		HP3XBS	237,162	1363	58	B	10										PY3MT	3,741	43	29	C	
RN6BN	1,092	26	14	C	80	Honduras															PR7AR	75	5	5	B	80
RA3AJ	2,835	63	15	C	80	HR1AAB	53,724	242	74	B											PY2S	59,784	376	53	C	40
RA4AG	38,640	280	46	C	20	HR1RBM	23,862	194	41	B	20										PY2NY	229,680	1276	60	B	20
UA4CC	21,360	178	40	B	20	Grenada															PP5KE	154,800	860	60	C	20
RF4R (UA4RC, op)	20,202	182	37	C	20	J37LR (VE3EBN, op)	285,660	828	115	B											PR7FMT	119,190	685	58	B	20
UA3LHL	2,940	49	20	B	20	St. Vincent															PT2ND	109,704	653	56	B	20
UA3DPX	19,152	152	42	B	15	J88DR	2,945,277	3677																		

PY1NX	139,272	829	56	B	10
PY2KM	101,232	592	57	C	10
PU2PTO	68,688	424	54	B	10
PY4PW	65,943	431	51	B	10
PT2PS	49,536	344	48	B	10
PU2RFA	39,024	271	48	B	10
PY7VI	34,965	259	45	B	10
PY7EEL	27,864	216	43	B	10
PU2VYT	4,290	55	26	B	10
PY2EJ	1,914	29	22	A	10
PV8IG	27	3	3	B	10

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PYØFF 398,940 2180 61 C 20

Venezuela

YV4AA	353,400	760	155	B
YV5AAX	47,481	323	49	B
YV5MBX	16,539	149	37	C 160
YV3AZC	170,694	981	58	C 80
YV4FZM	116,928	696	56	C 80
YY5YMA	19,647	177	37	B 80
YV7QP	8,640	96	30	B 80
YV5OHV	198,882	1143	58	C 40
YV5LIX	330,282	1866	59	C 20
YV5OIE	221,940	1233	60	B 20
YV4DDK	159,660	887	60	C 20
YV4EWW	40,896	284	48	B 20
YV4YC	43,875	325	45	B 15
YY5JMM	150,864	898	56	B 10
YY5JRU	40,836	332	41	B 10
YV4FJK	33,075	245	45	A 10

Paraguay
ZP6Y 1,008,948 2026 166 C

Single Operator Assisted

Africa
CT3EE 385,050 850 151 C

Asia

7L4IOU	173,352	466	124	B
RAØAM	89,265	541	55	C
JQ1NGT	22,644	148	51	C
JK2VOC	10,764	92	39	B
JAØFVU	384	16	8	C
JA1LBZ	231	11	7	B

Europe

LY7Z (LY2TA, op)	1,449,723	2167	223	C
YT7A (4N7DW, op)	1,055,760	1660	212	C
DL6FBL	1,051,650	1845	190	C
OZ1ADL	657,675	1185	185	C
OH6NIO	510,876	1234	138	C
IKØYVV	382,848	997	128	C
S51DX	151,101	489	103	C
DK7YY	125,580	455	92	C
HA5PT	47,280	197	80	B
OE8YDQ	37,380	178	70	C
LY2CY	33,744	152	74	C
EA1AK/7	17,907	127	47	B
DL4RCK	14,523	103	47	B
EA3DUZ	2,775	37	25	C
ON5ZO	2,208	32	23	B

North America
TO1A (IK2QE1, op) 6,295,320 6264 335 C

South America
ZX2B (PY2MNL, op) 1,629,504 2624 207 B
LW5EE 347,616 1136 102 B
PY2GA 87,552 304 96 C

Multiplexer Single Transmitter

Asia

JA8RWU (+JH8PNE, JR8VSE, JO1DFG) 1,086,180 1684 215 C
JA7YAA (JG7PSJ, JO7FTJ, ops) 1,084,860 1722 210 C
JJ2ZJS (JA2AXB, JA2JSF, JE2HCJ, JG2TSL, JH2UUV, JL2TAW, JM2RUV, ops) 1,002,600 1671 200 C
JA2ZJW (JH2CMI, JH2SON, JF2QNM, ops) 792,720 1468 180 C
JA1KQX (+7N2KRX, 7M4KRX, JM1JZN, JL1XMN) 239,649 629 127 C
RKØAXX (RUØAIG, RVØAU, RXØAE, RVØAR, RAØAHC, ops) 144,072 552 87 C
RZØIWR (UAØIAS, UAØIHA, ops) 27,195 245 37 B 15
RK9CWW (RA4CF, UA9CIR, ops) 3,825 51 25 C

Europe

TM5C (F5VCO, F6ARC, F6CTT, ops) 4,384,065 4855 301 C
MU2A (5B4WN, 5B4AFM, ops) 3,132,489 3853 271 C
OM7M (OK2BFN, OM3PA, OM3PC, OM5RW, OM5RM, OM5ZW, ops) 2,111,751 2697 261 C
HG1S (HA1TJ, HA1DAE, HA1DAC, HA1DAI, HA3UU, HA3LN, HA1AG, HA1SN, HA1AH, ops) 1,781,472 2464 241 C
IR4M 1,716,480 2384 240 C
M5ZAP (+MØTTT) 1,670,172 2359 236 C
G6PZ (+G3TJE, G4OJH, GØCAC, GØWMMW) 1,661,088 2288 242 C
IO4T (IK4VET, IK4XCL, IZ4DIJ, IK4HLQ, IZ4DIJ, ops) 1,424,088 2082 228 C
EA3RKG (+ ops) 1,161,363 1907 203 C
HB9AUS (+HB9AJM, HB9BYT, HB9CVI, HB9CXZ, HB9DPD, HE9EEX) 1,134,294 1673 226 C
OL7R (OK1XUV, OK1WMV, OK1ISB, ops) 931,722 1486 209 C
LN8W (LA5KO, LA9HW, LA9VDA, ops) 927,507 1523 203 C
IR2C (IK2JUB, IK2FIL, IW2NOR, IZ2MWW, IZ2EEV, IZ2ABI, IW2JOP, ops) 705,348 1244 189 C
IK1MJG (+I1HAG, I1VDM, IZ1CRR, IK1NAO, I1PHX, I1GJC, IZ1CCE, IK1RQQ, I1RB) 691,950 1318 175 C
PI4TUE (PA5MS, PA5MW, PA9JB, ON9CC, ops) 690,975 1245 185 C

IKØNFV (+IØCUT, IKØLNN, IKØOER, IKØPEA, IKØSME, IZØBXZ) 636,291 1159 183 C
OZ5ESB (OZ1CWP, OZ1INN, OZ4AFQ, ops) 565,284 1156 163 C
OM4A (OM4EX, OM4DW, ops) 531,561 1061 167 C
II3A (IV3RAV, IV3HYD, IV3RCH, IV3GHY, ops) 459,963 1043 147 C
ED2TA (EA2CK, EA2CRG, EC2ADZ, EA2AIJ, ops) 393,162 851 154 C
SV1DPP (+SV1DPI, SV1CIB, ops) 323,694 734 147 B
IO2L (I2OKW, KF6EEZ, ops) 181,260 530 114 C
OL2A (OK2PEM, OK2HBY, OK2ARM, ops) 51,948 234 74 C
USØQ (UT2QT, UY5ZZ, ops) 41,811 181 77 C
UR4IYZ (UT4IR, UT8IM, ops) 9,240 70 44 C
SN75PRK (SP9ADU, SP9ZW, ops) 2,448 34 24 B

North America

VP5B (K4ISV, K4CN, ops) 8,556,132 8438 338 C
VP5A (WE3C, KQ3V, ops) 8,322,048 8064 344 C
HU1A (YT1AD, YU1RL, RZ3AAA, YS1RR, ops) 7,175,067 7097 337 C
6Y8Z 4,346,298 4878 297 B
V31QQ (KQ1F, K1XM, ops) 3,922,539 4259 307 B
PJ7B (W8EB, W8DVC, ops) 531,930 1190 149 C

Oceania
KH6RR WH6H AD6E 4,058,100 5010 270 C

South America

FY5KE (F1HAR, F5HRY, F5MZN, F6FVY, FY5FY, ops) 8,890,704 8516 348 C
9Y4TBG (DL6RAI, IV3IYH, ops) 7,703,535 7805 329 C
OA4O (OA4BHY, OA4AHW, OA4DJW, OA4DKC, OA4DII, ops) 3,793,458 4666 271 C
LT1F (LU1FAM, LU1FGE, LU1FJ, LU1FKR, LU3FZW, LU6FQD, ops) 3,606,324 4988 241 C
LU2FA (+LU1FGZ, LU1FZR) 3,192,948 4398 242 C
PY5KD (+PU5RAS) 1,028,904 1994 172 C
LU1BJW (+LU7DW, LU6AXV, LU1AEE) 681,408 1456 156 C
PY3ARD (PY3CGP, PY3DX, ops) 13,530 110 41 C

Multiplexer Two Transmitters

Asia
JA1YPA (JA1PEJ, JO1CRA, ops) 213,246 718 99 C

Europe

9A7A (9A4RX, 9A6DM, 9A3TR, 9A3OS, 9A7V, 9A8A, 9A2ME, ops) 3,511,200 4400 266 C
HG6N (HA2NA, HA2SX, HA3OV, HA6DX, HA6ND, HA6NF, HA6NL, HA6NY, HA6ON, HA6PX, ops) 2,822,004 3646 258 C
RU1A (RV1AC, RV1AW, RA1ACJ, UA1ARX, RA1AIP, UA1AKC, ops) 2,400,717 3163 253 C
DH1NFL 2,163,078 2931 246 C
LZ9W (LZ1ZD, LZ2CJ, LZ2HM, ops) 1,300,032 1952 222 C
EA4URE (EA4BT, EA4HP, EC4ABL, EC4ABK, EC4AGN, UY7CW, EB4EPJ, ops) 1,082,466 1562 231 C
EA3EJ (+EA3CCN) 12,420 90 46 B
UUØJM (+UU4JOU) 11,058 97 38 C
YO3KYO (YO3FLQ, YO3GCL, ops) 4,680 60 26 B

North America

6D2YFM (W5SB, N5DO, KD5BXZ, KE5OG, W5PF, XE1YFM, KA5AKG, W5IDX, XE1YBD, ops) 9,564,027 9349 341 C
V26DX (W3CF, N2EA, KD3TB, WXØB, N5CK, ops) 5,251,914 6186 283 B
TI8/K4UN (+W4BD, AK5E, K4ZJ, TI2KAC) 4,505,457 4829 311 C

South America

PJ2T (NWØL, AE9B, WB9Z, ops) 13,061,412 12404 351 C
PY3MHZ (PY3AFS, PY3BZA, PY3BM, PY3FOX, PY3DQ, PY3ABT, PY3MM, ops) 1,253,364 2429 172 C

Multiplexer Unlimited Transmitters

Asia
JA3YBK (JH3PRR, JG3KIV, JP3PZD, JH4NMT, JR4ISF, ops) 2,744,508 3796 241 C

Europe

9A1A (9A5W, 9A7R, 9A4WW, 9A6A, S51R, 9A5E, 9A9A, ops) 4,042,020 4646 290 C
IR4X (I4TJE, I4VEQ, IV3TMV, IK2NCJ, IK2QPR, IK2ULH, ops) 3,832,488 4839 264 C
RW2F (RA2FA, RN2FA, RV2FW, UA2FB, UA2FF, UA2FZ, ops) 3,061,575 3711 275 C
OMØM (OM3CHL, OM7ZZ, OM8AU, OM8AW, OMØWR, ops) 842,604 1433 196 C
LY7A (LY3NUT, LY2KJ, LY3DA, LY1FU, LY2KZ, LY2UF, LY2NK, LYR346, LY3NFK, ops) 708,954 1366 173 C