

2004 ARRL International DX CW Contest Results

A 'tween year.

What's a "tween"? The most common definition is a kid who is past early childhood but hasn't made it to being a teenager. A "tween" would be an 11 year old, for example. In ham radio, the "twens" are also related to an 11 year old, but in our case it refers to the 11-year peak and dip of the sunspot cycle. The ham radio "twens" are those years between the cycle peak and cycle lull that can allow for some spectacular contest band conditions.

The cycle peaks usually see very high scores posted in contests for no other reason than open bands provide more opportunity for a large number of QSOs. Multiplier counts can be good, but generally suffer on the low bands at cycle peaks from lack of adequate low band conditions. The cycle dips are not good for high scoring because the low bands do not produce the sheer number of contacts needed, despite relative ease of finding and working low band multipliers.

The "tween" years provide an excellent opportunity—on the right weekend—for very high scores to be posted for ARRL DX CW and for records to be broken. The right weekend requires both quiet low band conditions for multiplier chasing and solid DX openings on 10 and 15 meters to occur.

Records fell like leaves as the bands showed a fabulous combination of solid high band DX openings and quiet low band conditions. From the W/VE side, new category records were set for domestic operators in the Single Operator High Power, Multioperator Single Transmitter, 40 meter single band and 80 meter single band categories. From the DX side, new high marks for Single Operator Low Power, Single Operator QRP, Single Operator Assisted, 80 meter single band and 160 meter single band were achieved.

Though no new record was set in the category, the most competitive race of 2004 was DX Multioperator Two Transmitter that saw 4 Caribbean DXpeditions battling it out in a very tight squeeze for the #1 spot. In the end, it came down to the log checking process to sort it out and



Here's the K4JA Multi-Two crew. From the left: Mike, AJ9C; Pete, N4ZR; Chad, WE9V; Bruce, W3BP; Paul, K4JA; Larry, K7SV, and Jerry, KE9I.

the winner was determined by a margin of only 7 contacts out of 7700+ made by each of two teams.

W/VE QRP

Second place finisher in 2003 and perennial QRP entrant Tom Russell, N4KG (AL), pushed it up a notch to take the #1 spot with a line score of 927 contacts, 344 multipliers and a point total of 956,664. Congratulations, Tom!

Second place, and the new W3 call area record for the QRP category, went to Robert Schreibermaier, K3PH (EPA). K3PH's 1035 contacts were the most recorded of any 2004 QRP entrant, but N4KG's extra

48 multipliers were enough to make up the difference for the victory.

Third place went to Thomas Magera, N1TM (CT), at 649,728.

High QRP score from west of the Mississippi was recorded by 1999 ARRL DX CW QRP winner Gary Hembree, N7IR (AZ), with 552 QSOs for a score of 394,128. This was also Gary's 7th consecutive appearance in the QRP top 10.

W/VE Low Power

This year's W/VE low power winner, taking home the Dauberville DX Association plaque is Yankee Clipper Contest Club's Jim Bowman, KS1J (RI). His line score of 2186/368 for 2,413,344 points was a solid margin of victory over Potomac Valley Radio Club member Maury Peiperl, W3EF (MDC). Maury's score of 1887/404 and 2,287,044 was good enough to set the new W3 call area Low Power record.

Florida was represented at #3 with Palm City's Paul Tibbetts, K1PT (SFL) finishing third with 1775/404 for 2,151,300 points.

High finisher from west of the Mississippi was Marv Bloomquist, N5AW (STX). Running a SteppIR 4 el Yagi at 135 feet from his ranch in the Texas hill country, Marv's score of 1459/411 for

Expanded Reports Available

For expanded results, participant soapbox and the complete scores in a user-searchable database, 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.

Top Ten—US CW

Single Operator HIGH POWER		
K5ZD (W4PA, op)	20	517,023
	WE2F	470,586
	VY2TT(K6LA, op)	407,442
	W7WA	378,945
	K0IR	371,412
	N9TK	360,984
	VE6BF (@ VE6JY)	256,035
	KT9T	245,964
	W4NZ	191,400
	W7UT	181,764
	W5FO	

Single Operator LOW POWER		
KS1J	40	486,360
W3EF	N4PN	403,245
K1PT	VE1JF	380,820
KK9A	N6IG	310,368
N1UR	W5TM (W5AO, op)	285,498
KF0R (KC2LLM, op)	WX4G	235,980
	N8OO	191,478
	N5TW (KE5C,op)	179,010
	K4XS	156,606
	W2FW	149,940
	VE6WQ (VE6JY, op)	
	W2YWE	
	K1RM	
	W1TE	

Single Operator QRP		
N4KG	80	356,034
K3PH	VY2LZ (K1LZ, op)	117,900
N1TM	K1PX	108,054
W9WI	K4DLJ	89,280
N7IR	NU8Z	61,560
KG5U	VO1TA	61,560
W6JTI	W4SVO	41,004
WA3NKO	K3JGJ	31,110
K2JT	K6OY	28,080
KA11S	K8MD	25,479
	VE7CC	

10		
K4WI	201,996	
K9ES (K1XX, op)	142,830	106,704
K5RX	126,618	50,616
N4GM	36,984	33,252
K4RDU	22,275	31,758
KG6ERO	14,508	29,835
KD1IA	10,575	24,768
K3SWZ	9,918	21,411
K8OWL	8,307	18,762
AE5B	6,732	17,331
	K8AQM	17,160

15		
N2MF	516,483	
N4WW	500,976	
K2BA	440,496	
N2IC	427,572	
K4WX	413,280	
K4EA	398,970	
K4OAQ	377,136	
NY3A	350,703	
K4FJ	333,270	
WB4TDH	220,584	

1,798,947 was both the high score west of the Mississippi and a 7th place finish in the Low Power category for the second consecutive year.

W/VE High Power

Coming at #1 for the second time in three years in the Single Operator High Power category to take the Frankford Radio Club plaque was Tennessee Contest Group president Scott Robbins, W4PA, who operated from the western Massachusetts station of K5ZD. Scott's line score of 4240/518 for 6,588,960 is the new overall W/VE scoring

Top Ten—DX CW

Single Operator Assisted		Single Operator HIGH POWER	
K3WW	6,038,010	D4B (4L5A, op)	6,245,262
K2NG	5,200,281	V31DJ (W0CP, op)	5,497,902
W2RE	4,432,560	P40Y (AE6Y, op)	5,314,680
AA3B	4,316,235	HC8L (W6NL, op)	5,226,000
KF3B	4,249,785	FM5BH	5,222,088
K1IG	3,670,308	ZF2NT	5,197,863
KQ3F	3,382,236	VP5M (K7BV, op)	5,139,966
W2WB	3,313,692	ZD8Z (N6TJ, op)	4,883,418
W3FV	3,109,392	KP2CW (K6VVA, op)	4,462,533
N3BB	3,038,958	8R1K (OH0XX, op)	4,312,872

Multioperator Single Transmitter		DXCW Single Operator LOW POWER	
K1IR	7,374,294	WP3R (K9PG, op)	5,436,576
W3BGN	6,879,210	P40W (W2GD, op)	4,773,798
K8CC	4,995,876	N7OU/HI9	3,969,600
K2UA	4,239,690	VP9/W6PH	3,544,230
N2RM	3,959,604	J88DR	2,393,370
K5NZ	3,784,830	CS6T (CT1ILT, op)	2,379,456
K9SD	2,812,407	EA7RM	2,069,325
WN9O	2,368,176	VP9/K9CC	1,879,248
NE3F	2,226,609	PY1NX	1,705,401
W6YX	1,886,976		

Multioperator Two Transmitters		DXCW Single Operator QRP	
K4JA	12,587,652	FY5KE (F5MZN,op)	2,603,598
K1KI	11,539,725	LU5FZ	360,036
N3RS	10,668,060	OM7DX	238,788
K8AZ	8,969,607	HB9BMY	183,924
N4RV	7,425,540	EA7AAW	150,750
W4RM	6,672,930	G0DCK	145,314
K0TV	6,657,591	LZ2RS	138,528
N0NI	5,359,338	GW4ALG	123,201
W2XL	5,299,911	G3YMC	121,776
VE3RM	4,789,092	YU7CB	107,016

Multioperator Unlimited Transmitters		DXCW 10	
W3LPL	15,999,444	LT1F (LU2FM,op)	284,316
K3LR	15,130,926	LT5F (LU4FPZ, op)	249,039
K1XM	13,626,378	LT1A (LU3CT, op)	199,926
NY4A	12,926,088	P43JB	149,364
K1RX	11,604,540	C6APG	97,944
K9NS	11,349,027	IR2Y	67,410
W2FU	11,284,989	9A3TR	63,480
NQ4I	10,970,256	9A3VM	51,528
KB1H	10,592,640	HG1W (HA1WD, op)	41,625
K1TTT	10,187,964	CT1AOZ	39,483

DXCW 15		DXCW 160	
ZF1A (W5ASP, op)	380,373	C6ALK (K7RE, op)	142,128
P40G (I2UIY, op)	360,726	V31YN (DJ4KW, op)	71,298
CX7BY	232,731	CO8LY	69,801
LU5FC	231,534	YV1DIG	67,392
F5IN	194,184	T98T	40,635
PI4TUE (PC5A, op)	166,212	SO2R (SP2FAX, op)	34,428
XE3WAO	164,835	YU1EXY	32,079
IR7A (I7ALE, op)	155,376	S57M	31,080
YZ1AU	138,750	OK1AEZ	27,750
YT1NT	128,700	OM8A (OM3RM, op)	26,784

DXCW 20		DXCW Single Operator Assisted	
EA8/OH4NL (OH2BYS, op)	311,343	KH7X (KH6ND, op)	4,987,263
M5X (G4TSH, op)	263,730	V26G (N2ED, op)	4,419,576
TI3M (TI3TLS, op)	253,692	DL5AWI	1,996,893
OH4XX	234,552	DK3GI	1,881,684
OH4A (OH6QU, op)	234,204	HG3M (HA3MY, op)	1,867,536
TM1W (F6FVY, op)	230,028	YT7A (YU7GMN, op)	1,662,507
OH8L (OH8LQ, op)	220,365	PY2YP	1,364,880
LU1FZR	195,408	YU1ZZ	1,302,480
4M4C (YV4GLD, op)	193,992	SN8F (SP8FHK, op)	1,211,364
S50R	188,859	PS2E (PY2EX, op)	816,144

DXCW 40		DXCW Multioperator Single Transmitter	
IR4T (IK4UPB, op)	260,478	8P9JA	5,953,320
T96Q	245,676	VP5K	5,900,688
SN7Q (SP7GIQ, op)	236,151	V26DX	4,668,327
CO2JD	220,284	T48K	3,209,394
HA5A (HA5IW, op)	217,848	EA8ZS	2,561,418
T99W	207,648	OM7M	2,518,776
HA3MQ	187,416	IR4M	2,389,410
TM4Q (F6FYA,op)	184,800	E17M	2,320,302
EA5YU	172,590	HG1S	2,303,847
S52ZW	172,197	IR4X	2,250,168

DXCW 80		DXCW Multioperator Two Transmitters	
C6AKQ (N4BP, op)	255,765	PJ2T	8,091,693
FG5BG (F6IRF, op)	221,604	FS5UQ	8,084,736
G0IVZ	161,784	J7OJ	7,924,350
SP3GEM (SP3RBR, op)	105,111	PJ4R	7,612,425
HB9FAP	103,200	DL1MGB	3,333,876
HA8FM	94,800	HG6N	2,726,346
DJ0MDR	88,950	OM0M	2,624,760
EA5FID	82,620	DA0BCC	2,549,337
GM4YXI	76,194	RU1A	2,251,890
S52EZ	76,140	ES5Q	2,047,407

DXCW Multioperator Unlimited Transmitters	
CS6V	7,202,835
J6DX	6,768,798
TI5N	6,723,834
9A1A	4,938,129
LZ9W	2,322,594
JA3YBK	2,295,915
JE1ZWT	1,505,580
LY7A	1,382,700
OH2K	203,205

record in the High Power category.

Finishing a solid second was WRTC competitor Andy Blank, N2NT (NNJ), with 4187 contacts, 505 multipliers and a total score of 6,343,305 points. Andy's 6.3 million point score is the third highest score ever posted in the ARRL DX CW Single Operator High Power category and is the new W2 call area record.

Third was Alexander Avramov, LZ4AX, who operated using the Penn State University club call sign K3CR (WPA) from the contest superstation of WA3FET to finish third at 3514/480 for

5,060,160 points.

Excellent scores were posted in the High Power category from outside the northeastern United States. Finishing #14 overall with the high score from west of the Mississippi was WRTC competitor Dan Craig, N6MJ (ORG), who operated from W6KP's station for a score of 3,101,928.

W/VE Single Op Assisted

"Willie Willie" is #1 again! Charles Fulp, K3WW (EPA), operated his suburban Philadelphia station to a decisive victory in the W/VE Single Op Assisted

category. Charles' line score of 3762/535 for 6,038,010 points represents his 5th Single Op Assisted win in ARRL DX CW. Congratulations!

With his Bonaire QTH occupied by the KU8E-led team at PJ4R, Noah Gottfried, K2NG (NNJ), took on the challenge of the Assisted category to finish second with a score of 5,200,281.

A close race for the rest of the top 5 ensued, with Ray Higgins, W2RE (ENY), at 4,432,560 topping Bud Trench, AA3B (EPA), at 4,316,235 and Alan Snyder, KF3B (EPA), 4,249,785 for third, fourth and fifth positions, respectively.

Top score from west of the Mississippi (and outside the northeastern USA) was south Texas' Jim George, N3BB, who won the West Gulf Division title enroute to a #10 overall placing with a line score of 2106/481 for 3,038,958 points. Jim's score also is the new W5 call area record.

W/VE Single Band

160 and 80 meters both featured wins from the same Prince Edward Island QTH and a new W/VE score record for 80 meters. After enduring a harrowing journey to reach the VY2ZM station in a raging snowstorm, Jeff Briggs, K1ZM/VY2ZM, and Krassy Petkov, K1LZ/VY2LZ, operated side-by-side at the VY2ZM QTH to win the W/VE single band category for both bands. The VY2LZ score on 80 meters of 356,034 is the new W/VE scoring record and ends the 10 year win streak on 80 meters of Robye Lahlum, W1MK. Jeff's score from VY2ZM on 160 meters of 106,704 was his second consecutive W/VE win on top band.

There was another score record set in the W/VE single band categories, and it belongs to Paul Newberry, N4PN, on 40 meters. Paul took advantage of a great salt water QTH on the Gulf Coast at St George Island, Florida to rack up 1351 QSOs and an amazing 120 multipliers for a score of 486,360. This breaks the 1991 40 meter single band record of K1ZM, which had been the oldest single band ARRL DX CW record on the books previous to this point.

20 meters featured a win by John Naberezny, WE2F (ENY), with a line score of 1473/117 for 517,023. Prince Edward Island was again represented in a single band category by K6LA, who operated VY2TT to a second place single band 20 meter finish at 470,586 points.

Moving up a band to 15 meters was Brian Edward, N2MF (WNY), who won the 20 meter single band category in 2003, and also was victorious on 15 meters in 2001 and 2002. Brian's score of 1551/111 for 516,483 points narrowly edged out Austin Regal, N4WW (NFL), at 1491/112 for 500,976 for the 15 meter title.

10 meters featured another single band win from a southern QTH with Cort Judd, K4WI, of Alabama scoring 201,996 points



Steve, AK0M, unfortunately had to "rough it" as C6ASB during the contest. I am sure many would gladly "suffer" with him.

on 724 contacts. Charles Carroll, K1XX, operated K9ES from South Florida to a second place 10 meter finish with a score total of 142,830.

W/VE Multioperator Categories

The man with one of the biggest smiles at Dayton this year had to be Jim Idelson, K1IR. His team of himself, K1NU, K1OA, K1VR, KE1J and W1VE operated the K1IR station in eastern Massachusetts to a solid victory and the Northern Illinois DX Association plaque in the W/VE Multioperator, Single Transmitter category. The K1IR line score of 4437/554 for 7,374,294 points is both the new category scoring record, breaking the 2001 record of W4AN, and the first time 7 million points has been topped by a M/S entry.

Coming in second in the Multioperator, Single Transmitter category was the two-man team of Steve Sussman, W3BGN, and Tom Wall, K2TW. Operating as W3BGN (EPA), the two of them racked up a score of 6,879,210 to also top the previous W4AN record and set a new high mark for the W3 call area.

Mad River Radio Club operators K8CC, KK8I and W8MJ operated K8CC to a third place finish with a line score of 3148/529 for 4,995,876 points.

In Multioperator, Two Transmitter, the Society of Midwest Contesters plaque was taken for the second consecutive year by the seasoned team led by Paul Hellenberg, K4JA (VA). Consisting of himself, W3BP, N4ZR, AJ9C, KE9I, K7SV and WE9V, their line score 6692/627 for 12,587,652 points was enough to beat back a competitive effort from the #2 team led by Tom Frenaye, K1KI. K1KI with K1CC, KM1P, W1RM and K2SX operated Tom's Connecticut station to 6275 QSOs for a score of 11,539,725 points.

Tenth place Multi-2 finisher VE3RM (VE3RM, VE2NI, VE2WU, VE3FU, VE3IAY, VE3JM, ops) set a new Canadian record in the category with 4,789,092 points.

CQ Contest Hall of Fame member Frank Donovan, W3LPL (MDC), is not one to revel in past glory, and continued his long tradition of battling it out in the com-

petitive Multioperator Multitransmitter category by leading his team of W3LPL, K1HTV, W2GG, AI3M, K3MM, N3OC, K3RA, K3RV, KD4D, K4ZA, K4ZW to a 2004 victory with a total score of 15,999,444 points.

Another long time M/M category entrant is Tim Duffy, K3LR (WPA), and Tim led his 2004 crew of himself, N2NC, W2RQ, K3UA, N3GJ, N3RA, K8CX, N9RV, W9ZRX, VE3DX, VE3EJ and VE7ZO to second place category finish with a total score of 15,130,926 points.

DX High Power

Winning the DX High Power category generally requires building or renting a station in a far-off locale and traveling there in an attempt to beat out all the other like-minded operators who have done the same thing in pursuit of victory. This year was no exception with D4B operator Alexander Teimurazov, 4L5A, making an 18 hour multi-stop plane trip from Moscow to his contest station in the Cape Verde Islands off the west coast of Africa to operate ARRL DX CW. Finishing third in 2003, Alex was determined that 2004 was going to be his year and he operated D4B to a score of 6,245,262 points for his first ARRL DX CW contest win and a new African continent record. Congrats, OM!

After D4B, a battle for the #2 through #7 spots ensued with only about 6 percent of score total separating the next 6 positions. It was Walt Stinson, W0CP, who was next through the log checking process to operate V31DJ from Belize to a second place finish with a line score of 5406/339 for 5,497,902 points. Right on Walt's tail was Andy Faber, AE6Y, operating P40Y from Aruba to a third place finish at 5180/342 for 5,314,680.

Best High Power score from Europe was GI0KOW (Andrew, GI0NWG, op) who finished 12th overall with a score of 3,410,184 points. The top Asian High Power scorer was A61AJ, operated by Robert, S53R. Top score from Oceania was Stan at Indonesia's YB0AJR.

DX Low Power

Paul Gentry, K9PG, was our 2003 High Power winner from WP3R and he returned to Puerto Rico again for 2004, this time leaving the amplifier in the standby position. Operating in the Low Power category, Paul's WP3R line score of 5268/344 for 5,436,576 points would have been a #3 finish in the High Power category and is the new DX Low Power scoring record. Paul's Low Power win is his second, the first coming from FS5PL in 1996.

CQ Contest Hall of Famer and WRTC competitor John Crovelli, W2GD, operated P40W from Aruba to a second place Low Power finish with a score of 4,773,798 points, also topping the old 6V6U record.

Continental Leaders

Single Operator QRP

Asia	JR4DAH	62,694
Europe	OM7DX	238,788
North America	HP1/NV7X	9,963
Oceania	N7ET/DU7	21,573
South America	FY5KE (F5MZN, op)	2,603,598

Single Operator Low

Africa	EA8/ON5UM	742,896
Asia	TA2ZF	723,819
Europe	CS6T (CT1ILT, op)	2,379,456
North America	WP3R (K9PG, op)	5,436,576
Oceania	ZL2BR	432,765
South America	P40W (W2GD, op)	4,773,798

Single Operator High

Africa	D4B (4L5A, op)	6,245,262
Asia	A61AJ (S53R, op)	1,018,350
Europe	GI0KOW (GI0NWG, op)	3,410,184
North America	V31DJ (W0CP, op)	5,497,902

Oceania	YB0AJR	11,583
South America	P40Y (AE6Y, op)	5,314,680

Single Operator Single Band 160

Asia	JA8NFV	990
Europe	T98T	40,635
North America	V31YN	71,298
Oceania	KH6/N6KB	5,394
South America	YV1DIG	67,392

Single Operator Single Band 80

Asia	JH1AEP	13,362
Europe	G0IVZ	161,784
North America	FG5BG (F6IRF, op)	221,604
Oceania	9M6NA (JE1JKL, op)	13,050
South America	PR7AR	90

Single Operator Single Band 40

Asia	A61AR (RV6LNA, op)	83,430
Europe	IR4T (IK4UPB, op)	260,478
North America	CO2JD	220,284
Oceania	VK4UC	56,259
South America	YV7QP	10,476

Single Operator Single Band 20

Africa	EA8/OH4NL (OH2BYS, op)	311,343
Asia	JT1FDD (UA3QJC, op)	49,500
Europe	M5X (G4TSH, op)	263,730
North America	TI3M (TI3TLS, op)	253,692
Oceania	ZL/W3SE	15,048
South America	LU1FZR	195,408

Single Operator Single Band 15

Africa	EA8/DL3KVR	73,008
Asia	JH3AIU	118,272
Europe	F5IN	194,184
North America	ZF1A (W5ASP, op)	380,373
Oceania	T88LZ	32,103
South America	P40G	360,726

Single Operator Single Band 10

Asia	JG2TKH	9,828
Europe	IR2Y	67,410
Oceania	VK2CZ	264
South America	LT1F (LU2FM, op)	284,316

Single Operator Assisted

Asia	JY9QJ	243,945
Europe	DL5AWI	1,996,893
North America	V26G (N2ED, op)	4,419,576
Oceania	KH7X (KH6ND, op)	4,987,263
South America	PY2YP	1,364,880

Multioperator Single Transmitter

Africa	EA8ZS	2,561,418
Asia	JA2ZJW	806,490
Europe	OM7M	2,518,776
North America	8P9JA	5,953,320
South America	LU7D	1,826,220

Multioperator Two Transmitter

Asia	JA1ZLO	424,872
Europe	DL1MGB	3,333,876
North America	FS5UQ	8,084,736
South America	PJ2T	8,091,693

Multioperator Unlimited Transmitter

Asia	JA3YBK	2,295,915
Europe	CS6V	7,202,835
North America	J6DX	6,768,798

Plaque Winners

Winner	Plaque Category	Plaque Sponsor
K5ZD (W4PA, op)	W/VE Single Operator High Power CW	Frankford Radio Club
KS1J	W/VE Single Operator Low Power CW	Dauberville DX Association
N4KG	W/VE Single Operator QRP CW	Tod Olson, K0TO
K3WWW	W/VE Single Operator Assisted CW	Harold Ritchey, W3WPG Memorial
K1IR	W/VE Multioperator Single Transmitter CW	Northern Illinois DX Association
K4JA	W/VE Multioperator Two Transmitter CW	Society of Midwest Contesters
W3LPL	W/VE Multioperator Unlimited Transmitter CW	DX Publishing, N4AA
VY2LZ (K1LZ, op)	W/VE 3.5 MHz CW	SM3DMP
N4PN	W/VE 7 MHz CW	Northern Arizona DX Association
WE2F	W/VE 14 MHz CW	The QSL MAN—W4MPY
N2MF	W/VE 21 MHz CW	Carl Luetzelschwab, K9LA
K4WI	W/VE 28 MHz CW	Green River Valley, IL ARS, K9WM
D4B (4L5A, op)	World Single Operator High Power CW	North Jersey DX Association
WP3R (K9PG, op)	World Single Operator Low Power CW	Jim Stevens, K4MA
FY5KE (F5MZN, op)	World Single Operator QRP CW	Jerry Griffin, K6MD/YI9MD
8P9JA	World Multioperator Single Transmitter CW	DX Publishing, N4AA
PJ2T	World Multioperator Two Transmitter CW	Frankford Radio Club
CS6V	World Multioperator Unlimited CW	H. Stephen Miller, N0SM
C6ALK	World 1.8 MHz CW	Fred Race, W8FR, In Memory of DL1FF
EA8/OH4NL (OH2BYS, op)	World 14 MHz CW	Tom Frenaye, K1KI
ZF1A (W5ASP, op)	World 21 MHz CW	Caribbean Contesting Consortium -PJ2T
LT1F (LU2FM, op)	World 28 MHz CW	Ft. Wayne DX Association
K9NW	Central Division Single Operator High Power CW	Society of Midwest Contesters
KK9A	Central Division Single Operator Low Power CW	Society of Midwest Contesters
WN9O	Central Division Multioperator Single Transmitter CW	Society of Midwest Contesters
K0SR	Dakota Division Single Operator High Power CW	In Memory of SPC Jon Fettig, KC0HSQ, ND ARNG, OIF, by MSG Hall, K9GY
N6ZZ	Rocky Mountain Division Single Operator Low Power CW	Grand Mesa Contesters of Colorado
VO1MP	Canada Single Operator Low Power CW	Contest Club Ontario
EA8ZS	Africa Multioperator Single Transmitter CW	Tom Frenaye, K1KI
A61AJ (S53R, op)	Asia Single Operator High Power CW	Alamo DX Amigos
JA2ZJW	Asia Multioperator Single Transmitter CW	Yankee Clipper Contest Club
JA1ZLO	Asia Multioperator Two Transmitter CW	AH9B, D. Craig Boyer
GI0KOW (GI0NWG, op)	Europe Single Operator High Power CW	Jerry Griffin, K6MD/YI9MD
DL1MGB	Europe Multioperator Two Transmitter CW	Jim George, N3BB
CS6V	Europe Multioperator Unlimited CW	Texas DX Society
V31DJ (W0CP, op)	North American Single Operator High Power CW	Potomac Valley Radio Club
8P9JA	Caribbean Multioperator Single Transmitter CW	The YASME Foundation
J12KVW	Japan Single Operator Low Power CW	Western Washington DX Club

Other Low Power continental leaders were CS6T (CT1ILT, op) for Europe, who scored 2,379,456 for a 7th place overall finish, EA8/ON5UM for Africa, TA2ZF for Asia, and ZL2BR for Oceania.

DX QRP

Olivier Le Cam, F5MZN, operating FY5KE from French Guiana is our 2004

winner in the DX QRP category. His line score of 2962/293 for 2,603,598 beats the previous DX QRP category record he set in the 2003 running. In 2003 Olivier had more than 1000 contacts on 10 meters to cruise to the win; 2004 featured a 1000+ contact run on 15 meters for a runaway category win.

Ed, LU5FZ, made 822 contacts from

Argentina for a total score of 360,036 and a second place finish. After the first two positions, the rest of the top 10 consisted of European operators with Stefan Melcer, OM7DX #1 Europe and third overall with 603 QSOs and a score of 238,788. Peter Egger, HB9BMY, and Emilio Arenas, EA7AAW, rounded out the top 5.

Leading DX QRP scores from North America was HP1/NV7X, from Oceania N7ET/DU7 and from Asia JR4DAH.

DX Single Band

The Bahama Islands were the scene of a pair of DX single band victories and two new single band records set by two American contest operators.

On top band, it was Brian Kassel, K7RE, who operated C6ALK to 142,128 points, breaking the 1997 DX 160 meter single band record held by V26CW (NM9H, op). Finishing second was Gerd Sapper, DJ4KW, who operated V31YN from Belize with a score of 71,298.

On 80 meters, Bob Patten, N4BP, operated C6AKQ to a score of 255,765 points, topping the 1997 record of HH2AW (9A3A, op) and pulling in for his second consecutive DX 80 meter single band victory. Second place went to Patrick Destrem, F6IRF, who operated FG5BG to a score of 221,604.

40 meters was won from the mammoth IR4T contest station, this time operated by Gabriele Macchi, IK4UPB. Gabriele's line score of 1497/58 for 260,478 points was just enough to squeak by strong performances from Matkic Ivica, T96Q, at 245,676 in second place and Krzysztof Sobon, SP7GIQ, operating as SN7Q at 236,151, third.

20 meters was won handily from the Canary Islands by EA8/OH4NL operated by Mauri Leppala, OH2BYS. Mauri's line score of 1759/59 for 311,343 provided a solid margin of victory over second place finisher M5X, operated by Justin Snow, G4TSH, to a score of 263,730 points.

W/VE Single Operator 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)		
K5ZD (W4PA, op)			K4RO	2,746,590	C	VE3AT	3,986,700	C	WX0B (AD5Q, op)			N6MJ (@W6KP)		
6,588,960	C		N4CW	2,524,050	C	K9NW	3,437,280	C	2,714,289	C		3,101,928	C	
N2NT	6,343,305	C	WF3J	1,729,350	C	N4GN	2,774,724	C	K5NA	2,627,130	C	N6BV	2,162,226	C
K3CR (LZ4AX, op)									K0SR	2,034,396	C	KC7V	1,747,980	C
5,060,160	C													
KS1J	2,413,344	B	K1PT	2,151,300	B	KK9A	2,051,112	B	N5AW	1,798,947	B	K8IA	1,044,900	B
W3EF	2,287,044	B	K4GKD	1,353,732	B	VE3XB	1,340,820	B	W0UO	1,160,136	B	W7ZMD	501,720	B
N1UR	2,050,875	B	WO4O	1,288,854	B	VE3KP	1,108,548	B	W0VX	725,220	B	N6NF	407,973	B
K3PH	919,080	A	N4KG	956,664	A	N8IE	251,301	A	KG5U	344,874	A	N7IR	394,128	A
N1TM	649,728	A	W9WI	488,796	A	VA3DF	236,292	A	N0UR	242,112	A	W6JTI	319,716	A
K2JT	283,185	A	WA3NKO	305,040	A	KT8K	141,252	A	WA8ZBT	192,096	A	W6QU (W8QZA, op)	171,756	A

15 meters featured a close finish with Joe Staples, W5ASP, operating ZF1A to victory with 2149 QSOs for a total score of 380,373 points. Right behind Joe was Paolo Cortese, I2UIY, who operated P40G from Aruba to 2038 QSOs for 360,726 points.

10 meters was the battle of the Argentinians with LT1F (LU2FM, op) coming in #1 at 284,316; LT5F (LU4FPZ, op) #2 with 249,039, and LT1A (LU3CT, op) #3 at 199,926.

DX Single Op, Assisted

In the DX Single Op, Assisted category we saw 2002 DX High Power winner Mike Gibson, KH6ND, operate KH7X to victory and a new category record with a line score of 4933/337 for 4,987,263 points. Mike's win is the first in the DX SO/A category from the Pacific since KH6RS took #1 in 1997.

Coming in second was previous record holder and 2002 and 2003 DXSO/Assisted winner Ed Wlodarski, N2ED, operating from Antigua as V26G to a score of 4,419,576.

The next four positions in the top 10 were taken by European operators, with DL5AWI and DK3GI finishing a close (to each other) third and fourth with 1,996,893 and 1,881,684, respectively. Not far behind in the #5 slot was HG3M (HA3MY, op) at 1,867,536.

High South American score was posted by #7 finisher PY2YP at 1,364,880. High score posted from Asia was Jordan's JY9QJ.

DX Multioperator Categories

A close race ensued for the top spot in the DX Multioperator Single Transmitter class, with two two-man operating teams finishing within 1% of each other and both just short of the all-time category scoring record.

It was the effort of Will Roberts, AA4NC and Jim Stevens, K4MA, operating 8P9JA from Barbados to victory in the DX M/S category. This is the fourth win in the M/S category for 'NC and 'MA from 8P9JA,

with previous wins in 1999, 2000 and 2002. The 8P9JA line score of 5752/345 for 5,953,320 was just enough to top second place finisher VP5K on Turks and Caicos. The VP5K team of Mark Obermann, AG9A, and Ray Sokola, K9RS, had 5652/348 for 5,900,688 points but the three extra multipliers were not enough to make up the 100 QSO lead of the 8P team.

High African score was #5 finisher EA8ZS at 2,561,418. The high European M/S score was #6 overall finisher OM7M at 2,518,776. High South America M/S finisher was LQ7D. High M/S Asian score was posted by JA2ZJW.

Razor thin. That's the margin of victory accurately described when a 7700+ QSO effort by two teams is won or lost by a score margin equivalent to 7 contacts. It was a total of 4 Caribbean DXpeditions that battled it out this time for the top score in the ultra-competitive Multioperator Two Transmitter category. All four of them were in a statistical tie for the top spot going into the log checking process—within the general operator logging error margin, any of the 4 teams in the top 4 could have ended up at #1.

Coming in with their first ARRL DX CW multioperator category-win was the Caribbean Contesting Consortium team led by Geoff Howard, W0CG, and operating from Signal Point in Curacao as PJ2T.

But it was *close*. The CCC group of W0CG, N1ZZ, W8AV, W8TK and W0NB were closely followed by an expedition to French St Martin that consisted of K3LP, N3KS, W3ARS, K4EU, N7DD and N8II operating as FS5UQ. PJ2T's line score of 7773/347 for 8,091,693 was barely enough to top FS5UQ at 7744/348 for 8,084,736. Given the +1 multiplier count for FS5UQ, that's a margin of 7 contacts for PJ2T that made the difference for the win.


Jim White, K4OJ, loved contesting and his sudden passing at age 48 led his friends in the Florida Contest Group to arrange a last minute change in Dominica to use J7OJ rather than J7A as their ARRL DX CW call

sign. The K5KG-led group was able to get permission to use J7OJ only 24 hours before the beginning of the contest—kudos to the Dominican licensing authority for arranging it so quickly for them. The J7OJ group of K5KG, K3TEJ and W4IX finished a very strong third at 7,924,350 points, just 2.1% off the PJ2T lead.

High European M/2 finisher was DL1MGB at 5th overall with 3,333,876 points. High Asian score was posted by JA1ZLO.

In the multioperator, multitransmitter category it was Portugal's CS6V operated by German amateurs DL3OI, DL4LQM, DL4WG, DL5AXX, DL5LYM and DL8WAA finishing first with 7,202,835 points. Second place went to an American DXpedition to St Lucia where J6DX was operated by WA1T, KI6T, N6JRL, W8QID, K9JE, N9AG and N0FW to a total score of 6,768,798 points. Close behind the J6DX group was the Costa Rican expedition TI5N operated by K7AR, K17Y, TI2WGO, W7YAQ and WJ7R at 6,723,834. High Asian M/M score was #6 finisher JA3YBK at 2,295,915.

Coda

Nothing lasts—what is here today is gone tomorrow, including us as individuals. This is an indisputable fact of life. Another consideration, therefore, is to reflect on those who have died, their lives taken from them sometimes suddenly. In addition to his many other contest accomplishments, Bill Fisher, W4AN, led his station to a 2001 victory in the W/VE Multioperator, Single Transmitter category—setting the scoring record that was broken this year—and was the 1991 W/VE Low Power winner as KM9P. His untimely death on April 4 of this year was a reminder of how impermanent we and our achievements are. Bill's ashes were scattered at the base of the big 40 meter tower at his beloved world-class Dahlonega, Georgia contest station shortly after his death. Many of us in the contest community considered him friend and mentor, and he will be missed. Bill—73, OM. 

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, power (A = QRP, B = Low Power, C = High Power, D = Multioperator), and band.

CW

W/VE

Single Operator

1

Connecticut

N1TM	649,728	768	282	A
W1EQ	1,324,464	1346	328	B
W1JQ	1,025,595	1065	321	B
AA1ZT	536,544	648	276	B
N7NG	437,157	567	257	B
W1CTN	393,162	518	253	B
W1AMF	380,988	557	228	B
N1NB	192,240	356	180	B
K1RT	17,922	103	58	B
W1WEF	4,569,642	3234	471	C
KQ2M	4,155,624	3267	424	C
K1RM	4,120,200	3052	450	C
W1UK	1,606,374	1342	399	C
NN1N	1,198,551	1207	331	C
N1JW	197,964	351	188	C
K1ZZ	166,734	314	177	C
N4XR	157,314	314	167	C
K1BV	91,113	251	121	C
W1CU	12,054	82	49	C 160
K1PX	117,900	524	75	C 80
W1AW (N1ND, op)	21,684	139	52	B 15

Eastern Massachusetts

NC1C	1,080	20	18	A
W1TE	1,481,376	1187	416	B
K1HT	1,240,497	1227	337	B
K1EP	698,058	834	279	B
AD1C	677,226	662	341	B
N1DC	638,694	777	274	B
N3KCJ	542,271	667	271	B
WG1Z	451,620	579	260	B
KG1E	385,344	576	223	B
W1VIV	317,616	509	208	B
N1DS	169,194	326	173	B
K1PNQ	128,700	286	150	B
KV1J	113,238	233	162	B
KQ1F	100,380	239	140	B
K1SM	42,300	150	94	B
KY1B	38,313	129	99	B
W1MAT	33,948	123	92	B
KD6NA	16,875	75	75	B
N1NN	9,735	59	55	B
W1AWB	2,976	32	31	B
K5MA	2,257,812	2126	354	C
N1RR	2,242,164	1972	379	C
W1MK	1,540,200	1700	302	C
K2KQ	1,077,219	1053	341	C
W1ZT	738,444	826	298	C
W1FM	276,942	457	202	C
WS1L	16,356	116	47	C 80
W7OT	31,122	182	57	B 40
K2LP	27,999	153	61	C 40
K1MC	45,582	214	71	B 20

Maine

KA1IS	281,865	437	215	A
W1MU	1,168,947	1261	309	B
W1AH	461,295	603	255	B
K1SWG	97,704	236	138	B
N1LW	34,611	139	83	B
K1DRV	13,365	81	55	B
W1AO	2,787,441	2207	421	C
K1PQS	696,780	980	237	C
K1CP	484,446	614	263	C
W1GF	205,296	364	188	C
AC1O	60,663	277	73	C 15
KA1RFD	216	8	9	B 15

New Hampshire

KA1LMR	128,454	271	158	A
KA1API	127,836	268	159	A
W1XV	25,272	108	78	A
WA1Z	1,421,574	1309	362	B
KB1T	560,388	697	268	B
AE1D	122,235	281	145	B
WW3K	104,562	222	157	B
K1NH	102,960	260	132	B
W1END	48,888	168	97	B
AE1T	23,115	115	67	B
KT1V	4,946,856	3782	436	C
WC1M	4,170,264	3374	412	C
K1NQ	2,158,020	1893	380	C
W1ECT	1,666,980	1715	324	C

K1DG	1,232,826	1379	298	C
KC1F	1,118,232	1336	279	C
K1BD	118,221	251	157	C
N1IW	61,311	191	107	C
W1GOU	46,656	216	72	B 15
KG1V	31,980	164	65	B 15

Rhode Island

KS1J	2,413,344	2186	368	B
K1VSJ	1,062,396	1093	324	B
W1VET	518,232	604	286	B
W1YRC	155,811	311	167	C
KF1O	42,960	179	80	C
KD1IA	10,575	75	47	B 10

Vermont

N1UR	2,050,875	1823	375	B
K1KU	321,984	516	208	B
K1IB	217,536	412	176	B
W1ZK	839,475	861	325	C
W1CX	416,514	658	211	C
W1ZS	393,054	601	218	C
KE1FO	389,298	598	217	C
KK1L	1,173	23	17	C

Western Massachusetts

KK1W	225,189	393	191	B
N1PGA	210,900	370	190	B
K1SND	193,806	333	194	B
W1KT	155,700	300	173	B
K5ZD (W4PA, op)	6,588,960	4240	518	C

2

Eastern New York

KC2WA	61,248	176	116	A
K2UF	314,925	475	221	B
W2LK	310,803	491	211	B
W2ENY	141,225	269	175	B
K2YR	13,098	74	59	B
WT4Q	3,936	41	32	B
N2NI	1,124,154	1038	361	C
K2UG (AA2DY, op @ WA2MMX)	624,075	785	265	C
NA2M	328,725	487	225	C
N1EU	49,020	172	95	C
WE2F	517,023	1473	117	C 20
WA2ASQ	24,633	119	69	B 20
N2BZP	126	6	7	B 15

NYC-Long Island

W2HLI	219,600	400	183	A
KF0R (KC2LLM, op)	1,845,090	1577	390	B
WA2VZQ	406,080	576	235	B
KP4FP/W2 (KP3T, op)	68,961	181	127	B
K2TV	22,374	113	66	B
W2SN	816	16	17	B
N2GC	686,592	768	298	C
N2UN	618,492	796	259	C
KD2RD	357,408	1168	102	C
WB2AMU	24,282	142	57	C 40
W3EH	8,520	71	40	B 40
K2MFY	140,532	478	98	B 15
KR2AA	38,502	186	69	B 15
WO2N	13,095	97	45	B 15

Northern New Jersey

K2JT	283,185	465	203	A
W2JEK	27,666	106	87	A
WB2AA	980,064	996	328	B
K2WA	226,800	350	216	B
K2TWI	206,136	409	168	B
W2CVW	202,386	379	178	B
KX2S	172,980	372	155	B
K2YLH	140,760	276	170	B
WA2VQF	113,250	250	151	B
AE2JL	99,750	250	133	B
WA2BMH	48,510	154	105	B
N2LK	31,860	118	90	B
WA2LXE	25,506	109	78	B
N2QOR	9,024	64	47	B
K2ACU (W2NO, op)	6,549	59	37	B
N2JJF	5,670	45	42	B
K2ZB	3,162	34	31	B
N2NT	6,343,305	4187	505	C

N2LT	4,361,880	3260	446	C
WA2VYA	1,109,661	997	371	C
W2OO	461,736	583	264	C
W2UDT	233,436	397	196	C
K2ESE	54,075	175	103	C
N2CG	42,024	136	103	C
N2VM	27,378	117	78	C

Northern New York

N2JNZ	69,480	193	120	A
W3TB	416,604	596	233	B
W2IB	10,800	75	48	B
K3KYR	54,648	264	69	C 15

Southern New Jersey

N2CQ	110,880	336	110	A
K2UR	236,826	446	177	B
K2MK	63,732	188	113	B
WA2IAU	36,105	145	83	B
W2QOB	30,240	112	90	B
W5KI	10,080	70	48	B
KV2M	1,200	20	20	B
N2MM	2,287,620	2148	355	C
AB2E	865,872	859	336	C
K2QPN	102,666	241	142	C
N2MR	9,576	76	42	C
N2OO	7,011	57	41	C 160
K2SZ	3,393	39	29	B 80
N2UO	28,458	153	62	B 40
AD3Y	5,202	51	34	B 40
WA2VQV	46,398	209	74	B 20

Western New York

KU2N	552,336	592	311	B
WA2YSJ	370,272	532	232	B
KM2L	354,750	550	215	B
WB2WPM	338,916	463	244	B
W2EZ	97,755	245	133	B
N2CK	96,288	236	136	B
WA2ECA	73,902	218	113	B
K2CS	64,680	196	110	B
KV2X	11,115	65	57	B
K2GWL	6,450	50	43	B
WB2AIV	3,366	34	33	B
K2NV	2,230,170	1882	395	C
N2CU	1,961,175	1655	395	C
K2FU	1,252,152	1122	372	C
KA2MGE	507,276	671	252	C
KE2WY	210,900	380	185	C
W2LC	129,600	360	120	C
W2FUI	121,635	265	153	C
W2VO	17,052	98	58	C 160
NA2X	3,744	39	32	C 80
WF2W	156,606	607	86	C 40
WB2ABD	127,788	463	92	C 40
N2MF	516,483	1551	111	C 15
KC2HTP	1,575	25	21	B 15

3

Delaware

K3AS	39,168	136	96	B
N9GG	4,788	42	38	B
AA1K	3,623,334	2678	451	C
W3GNQ	26,103	113	77	C

Eastern Pennsylvania

K3PH	919,080	1035	296	A
K3NK	1,418,001	1339	353	B
K3EGE	460,287	597	257	B
K4JLD	421,848	504	279	B
AA0CY	177,288	332	178	B
K3ZA	135,780	292	155	B
K3NL	114,390	246	155	B
WA3AAN	105,327	249	141	B
AA3I	74,112	193	128	B
NU3Z	51,792	166	104	B
K3KW	34,935	137	85	B
K3WGR	24,528	112	73	B
W3CEI	14,100	100	47	B
W3RJ	2,566,980	2194	390	C
KB3TS	744,546	778	319	C
N3KR	621,960	730	284	C
W3BYX	592,704	672	294	C
N3RJ	567,072	716	264	C
W3KV	338,514	506	223	C
W3PT	284,832	368	258	C
N3NZ	154,548	318	162	C
K3QIA	125,730	254	165	C

W3BEN	125,610	265	158	C
W3ELA	20,592	104	66	C
AA3TL	7,260	55	44	C
K3JUG	21,411	117	61	C
K3JGJ	41,004	201	68	C
K3ZX	19,926	123	54	B
WA3IIA	10,878	74	49	C
K3SV	35,880	184	65	C
W8IJ	3	1	1	B
NY3A	350,703	1257	93	C
WR3H	34,710	178	65	B
K3SWZ	9,918	87	38	C

Maryland-DC

W3EF	2,287,044	1887	404	B
K2YWE	1,606,374	1463	366	B
NS3T	805,176	844	318	B
W2CDO	662,382	751	294	B
W3IUU	624,051	797	261	B
WK3H	612,978	722	283	B
WA1LWS	472,320	640	246	B
K3TW	371,175	707	175	B
KE3VV	357,918	493	242	B
N2US	312,315	443	235	B
N3WT	283,725	485	195	B
K3STX	236,898	369	214	B
NG3K	231,240	410	188	B
N3XL	44,520	140	106	B
W3UT	28,971	111	87	B
W6NRJ	6,396	52	41	B
K3APM	1,197	21	19	B
K3ZO	4,640,286	3298	469	C
N3UM	1,387,842	1478	313	C
W3AZ	523,110	658	265	C
W9GE	196,836	349	188	C
W3DF	39,198	139	94	C
W3FQE	29,889	123	81	C
W3GN	8,556	62	46	C
W3DOS (K3TW,op)	5,610	55	34	C
NA3M	8,784	61	48	B
WI2T	25,986	142	61	A

Western Pennsylvania

K3WWP	200,376	363	184	A
W3WH	3,780	36	35	A
WW3S	1,291,554	1186	363	B
W3BBO	361,611	531	227	B
NA3V	168,216	326	172	B
K3VX	125,256	307	136	B
W3AG	125,097	259	161	B
WB3DOM	103,194	294	117	B
WA3EQJ	67,284	178	126	B
N3FR	63,933	211	101	B
N2EM	33,864	136	83	B
K3FH	14,553	77	63	B
K3CR (LZ4AX, op)	5,060,160	3514	480	C
W3IQ	478,074	731	218	C
K3GW	450,450	550	273	C
W3GH	17,331	109	53	C
KM3J	5,358	47	38	C
WN3VAW	2,610	30	29	C
AD8J	54,960	229	80	C

4

Alabama

N4KG	956,664	927	344	A
K4NO	291,060	396	245	B
K4VU	221,160	388	190	B
WX4TM	71,148	196	121	B
K4AGT	35,433	127	93	B
KG4CUY	32,712	116	94	B
KA1DWX	783,822	773	338	C
W4NTI	313,959	457	229	C
WA1FCN	34,773	173	67	B
K4NVJ	11,040	80	46	A
K4WI	201,996	724	93	C

Georgia

WB6BWZ	46,953	141	111	A
KE2WB	31,020	110	94	A
K8CQ	27,729	117	79	B
NJ8J	24,075	107	75	B
K6EID	572,040	681	280	C
N4NX	157,794	289	182	C
WY4Y (N4EIL, op)	105,504	224	157	C
W4BQF	76,257	229	111	C
W4RHG	57,996	179	108	C
K4TEA	29,835	153	65	C
WW4LL	13,992	88	53	C
NA4BW	396	12	11	A

W4ATL	17,574	101	58	B
W3DCG	16,686	103	54	B
K4EA	398,970	1209	110	C

Kentucky

KM4FO	74,115	183	135	B
KO4OL	5,076	47	36	B
N4GN	2,774,724	2161	428	C
WB4ZDU	115,500	250	154	C
N4LQ	23,100	110	70	C
K4IE	22,833	129	59	B
KC4WQ	7,104	64	37	B

North Carolina

WA4DOU	711,627	721	329	B
K4GHS	318,528	474	224	B
K0BHC	254,184	356	238	B
AA4FU	247,665	395	209	B
W3OA	142,623	299	159	B
N8JE	88,464	194	152	B
N4NTO	58,482	171	114	B
AE4EC	16,200	75	72	B
W4WNT	15,210	78	65	B
N2NFG	12,876	74	58	B
N4HXI	12,474	77	54	B
N4CW	2,524,050	2130	395	C
W0UCE	1,005,312	1088	308	C
K4YKZ	430,110	590	243	C
N4AA	355,014	489	242	C
W4LM	264,000	400	220	C
K4SV	186,381	531	117	C
AA4NO	136,740	265	172	C
N4TL	58,410	177	110	C
K4CEB	36,252	159	76	C
KZ2I	33,600	140	80	C
N4XD	24,768	129	64	C
K4CIA	13,932	86	54	C
K4MWB	16,536	104	53	C
K4ESE	14,784	88	56	C
AA4VV	73,959	277	89	C
N7FUL	20,862	114	61	B

Northern Florida

NF4A	549,606	659	278	B
W4YA	342,528	512	223	B
KN4Y	321,855	499	215	B
N4EK	141,726	299	158	B
NN4DF	45,570	155	98	B
KE1F	16,320	85	64	B
K4LW	2,112	32	22	B
AD4E	363	11	11	B
K9OM	1,322,556	1228	359	C
KD5M	1,063,392	1007	352	C
W1MO	754,875	825	305	C
W7QF	79,104	206	128	C
NU4Y	7,839	67	39	C
W4VQ	18,762	106	59	C
KK4SI	8,643	67	43	C
K4JAF	16,530	95	58	B
N4PN	486,360	1351	120	C
N4CC	106,266	398	89	C
N4WW	500,976	1491	112	C

South Carolina

WR3Y	33,810	115	98	B
KR4YO	3,060	34	30	B
K4OH	119,805	245	163	C
K0COP	86,970	223	130	C
N2FY	9,870	70	47	C
K4DLJ	108,054	414	87	C
K4CNW	43,848	203	72	B
W4IU	6,048	56	36	C

Southern Florida

WA3NKO	305,040	496	205	A
KG4FSN	363	11	11	A
K1PT	2,151,300	1775	404	B
W4SAA	753,408	768	327	B
K9AW	191,664	363	176	B
N4QV	146,016	288	169	B
N8PR	112,056	232	161	B
N4LF	72,576	192	126	B
N4CU	28,200	100	94	B
K4RFK	19,950	95	70	B
K3QC	4,320	45	32	B
W4QM	1,293,600	1120	385	C
W0JLC	658,665	697	315	C
K4PB	586,800	652	300	C
K4WJ	31,104	128	81	C
W4GD	6,174	49	42	C
NA4CW	468	13	12	B
W4SVO	61,560	270	76	C
WX4G	285,498	933	102	C
K9ES (K1XX, op)	142,830	529	90	C

N4GM	36,984	184	67	B
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Tennessee

W9WI	488,796	644	253	A
N4UW	58,410	165	118	A
NU4B	47,610	138	115	A
WO4O	1,288,854	1158	371	B
NA4K	534,888	646	276	B
K3CQ	233,445	395	197	B
NQ4U	178,794	301	198	B
W4UR	141,804	303	156	B
W4HZD	126,000	280	150	B
W4TYU	114,234	241	158	B
WN4M	80,565	205	131	B
W4BCG	62,496	168	124	B
W4NI	62,088	199	104	B
AA3VA	60,912	188	108	B
WA4OSD	21,168	98	72	B
WD4PTJ	15,075	75	67	B
WA4GLH	816	17	16	B
K4RO	2,746,590	2233	410	C
K4AMC	1,276,173	1317	323	C
K4LTA	1,097,160	1115	328	C
AD4EB	237,552	404	196	C
N2WN	7,155	53	45	B
AA4WX	75	5	5	C
WB4YDL	87,327	313	93	C
W4NZ	245,964	796	103	C
K4BP	10,164	77	44	B
K4WX	413,280	1312	105	C

Virginia

N4IJ	150,192	298	168	A
K3MZ	2,016	28	24	A
K4FPF	651,504	784	277	B
W4RQ	544,050	650	279	B
K4UK	489,912	596	274	B
WB3BEL	444,246	583	254	B
KI3O	307,692	462	222	B
N4JED	155,832	302	172	B
K4ORD	146,877	283	173	B
K4GM	138,744	282	164	B
K6ETM	86,583	217	133	B
KI4VB	75,576	188	134	B
NA4MA	65,514	179	122	B
WB4DNL	56,265	155	121	B
AI4CB	44,730	142	105	B
AA4KD	35,868	122	98	B
K4FTO	22,698	97	78	B
N8IK	22,248	103	72	B
WA4FXX	20,640	101	68	B
KL7GLL/W4	16,524	81	68	B
KG6ZR	8,850	59	50	B
WF3J	1,729,350	1525	378	C
W0YR	1,536,210	1515	338	C
N3JT	1,411,680	1384	340	C
W4ZYT	783,000	870	300	C
W2YE	258,687	429	201	C
N4MM	221,052	338	218	C
N4PD	68,244	188	121	C
NC4S	60,300	201	100	C
K4OAQ	377,136	1164	108	C
K4FJ	333,270	1058	105	C
K4RDU	22,275	135	55	C
K2EKM	4,464	48	31	A

West Central Florida

K4GKD	1,353,732	1163	388	B
WK2G	1,121,202	1538	243	B
N4IG	1,037,898	1058	327	B
NJ4M (WD4AHZ, op)	1,024,374	1142	299	B
W4IHI	271,830	410	221	B
N4ES	216,540	401	180	B
K1TO	147,894	314	157	B
WN4DX	38,916	141	92	B
K4WFM	1,311	23	19	B
N4AO (WC4E, op)	1,274,130	1170	363	C
K4LQ	696,696	728	319	C
W4/G4BUE	557,106	734	253	C
N4GI	56,970	211	90	C
K4XS	179,010	765	78	C
W4ZW	8,820	70	42	C
K9HUY	25,842	146	59	C
N2UM	1,575	25	21	A
WB4TDH	220,584	728	101	B

5

Arkansas

W5RW	148,248	284	174	B
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WA5SOG (WA6FG, op) 106,722 242 147 B
 WA5KAK 66,132 167 132 B

Louisiana

K5KLA 521,730 682 255 B
 KC5R 39,852 164 81 B
 W5EKF 1,013,793 991 341 C
 N8OO 235,980 828 95 C 40
 K5UA 68,250 325 70 C 40

Mississippi

NI5F 278,901 399 233 B
 W5KK 183,306 274 223 B
 N5PU 141,804 303 156 B
 KN4QS 100,062 218 153 B
 W5LEW 29,160 120 81 B
 N5NQ 2,610 30 29 B
 N5PA 753,402 743 338 C

New Mexico

K7UP 138,618 302 153 A
 K7IA 107,100 238 150 B
 W5YZ 91,932 188 163 B
 KM5P 90,915 209 145 B
 W5IL 41,124 149 92 B
 WD5CAW 714 14 17 B
 N6ZZ 694,260 798 290 C
 N5UL 199,584 336 198 C
 W6TER 147,768 262 188 C
 W5JRP 8,742 62 47 B 20
 N2IC 427,572 1284 111 C 15

North Texas

WA8ZBT 192,096 348 184 A
 W0UO 1,160,136 1048 369 B
 W0VX 725,220 790 306 B
 WD5K 660,654 762 289 B
 W5RYA 350,640 487 240 B
 N5CHA 245,604 388 211 B
 K5SF 122,616 262 156 B
 AA5WE 46,350 150 103 B
 N5JR 40,089 161 83 B
 WK5K 32,040 120 89 B
 N5KR 25,800 100 86 B
 N5NJ 11,220 68 55 B
 WX0B (AD5Q, op) 2,714,289 2279 397 C
 K5BG 1,231,776 1128 364 C
 N5PO 831,420 930 298 C
 AC5HF 245,700 420 195 C
 W5LL 45,240 145 104 C
 W5FO 181,764 612 99 C 20
 K5RX 126,618 449 94 C 10

Oklahoma

AA5CK 12,240 68 60 A
 K5UV 129,480 260 166 B
 K5YAA 148,824 312 159 C
 N5DY 91,080 230 132 C
 K5YAB 86,376 244 118 C
 W5TM (W5AO, op) 310,368 976 106 C 40
 NE0P 3,567 41 29 B 40
 K2BA 440,496 1311 112 C 15

South Texas

KG5U 344,874 502 229 A
 K10G 36,864 128 96 A
 N5AW 1,798,947 1459 411 B
 K5LJ 243,576 408 199 B
 W5TA 149,688 297 168 B
 K5WAF 116,256 224 173 B
 K5HDU 107,184 232 154 B
 K5GM 88,425 225 131 B
 AD6G 61,560 180 114 B
 WX5I 48,411 163 99 B
 ND5Q 37,788 134 94 B
 KA5EYH 29,610 105 94 B
 KE5LQ 19,950 95 70 B
 K5WW 13,725 75 61 B
 K5NA 2,627,130 2095 418 C
 K5GN 2,012,130 1698 395 C
 K5PI 283,650 610 155 C
 KS5V 183,726 346 177 C
 WB5JID 81,906 187 146 C
 N5TW (KE5C, op) 191,478 679 94 C 40
 W5EB 1,680 28 20 A 20
 K5EJL 4,998 49 34 B 15

West Texas

KU5S 146,880 288 170 B
 N5RZ 21,120 110 64 B
 NZ5M 429 13 11 B 15
 AE5B 6,732 66 34 B 10

6

East Bay

KA6SGT 1,350 25 18 A
 KL7IDY/W6 1,275 25 17 B
 N6BV 2,162,226 1991 362 C
 W6NV 297,018 569 174 C
 K6SRZ 192,213 339 189 C
 AE6PP 111,222 501 74 C 40
 KX7M 149,175 585 85 C 20

Los Angeles

W6AQ 129,600 300 144 A
 NK6A 47,151 169 93 A
 W6RCL 34,263 141 81 A
 N6RV 121,584 298 136 B
 NT6AA 115,401 269 143 B
 AI6Z 86,460 220 131 B
 W6JK 49,440 160 103 B
 N6IC 37,800 150 84 B
 K6ZCL 34,320 143 80 B
 N6QQ 32,292 117 92 B
 W6QE 19,440 90 72 B
 N6AA 1,119,456 1104 338 C
 WO6M 248,976 399 208 C
 W6KC 30,090 118 85 C
 WA6BOB 23,643 111 71 C
 AD6PC 324 12 9 C
 K6SE 2,178 33 22 C 160
 N6HY 3,441 37 31 C 80
 W6UJX 34,506 162 71 C 40
 KG6ERO 14,508 124 39 B 10

Orange

KE6CC 11,424 68 56 A
 W6ZL 217,152 416 174 B
 K6EY 77,040 214 120 B
 W8KIE 62,418 202 103 B
 WA6OGO 58,212 196 99 B
 N6WK 37,260 138 90 B
 K6LG 35,088 136 86 B
 AD6FR 17,052 98 58 B
 KN6N 60 4 5 B
 N6MJ (@W6KP) 3,101,928 2456 421 C
 W6EEN (N6RT, op) 1,003,470 1079 310 C

Santa Barbara

WA6FGV 82,875 221 125 B
 W6UM 607,680 633 320 C
 WA5VGI 355,239 531 223 C
 W6TK 180,864 384 157 C
 W6OUL 89,010 230 129 C

Santa Clara Valley

W6IO 29,325 115 85 A
 W6AZ 25,200 105 80 A
 N6NF 407,973 569 239 B
 W6KPO (N6DQ, op) 185,856 352 176 B
 N6EM 121,275 275 147 B
 N7FF 41,919 157 89 B
 W9MAK 37,674 138 91 B
 ND2T 35,670 145 82 B
 W1MVY 16,920 94 60 B
 W6ZZZ 2,244 34 22 B
 W0YK 1,234,626 1186 347 C
 K6XX 1,152,900 1220 315 C
 K6RB 226,455 487 155 C
 NU6I 74,910 227 110 C
 K6GT 37,788 134 94 C
 W6OPO 31,878 138 77 C
 W6ISQ 27,864 129 72 C
 AJ6V 27,255 115 79 C
 K6OY 31,110 170 61 C 80
 WD6DX 13,500 90 50 B 20
 AE9F 56,448 294 64 B 15

San Diego

W6QU (W8QZA, op) 171,756 367 156 A
 WN6K 340,065 687 165 B
 W6KY 121,326 277 146 B
 KB7Q 42,333 137 103 B
 N6NC 23,460 115 68 B
 W6MVW 256,473 413 207 C
 K6CEQ 672 16 14 A 40

San Francisco

W6JTI 319,716 498 214 A
 N6ZFO 183,705 331 185 B
 K6OWL 58,824 228 86 B
 W6IYS 41,328 168 82 B
 K6UM 30,129 121 83 B
 AD6TF 7,626 62 41 C

N6CT 3,120 40 26 C 160
 K6CTA 63,474 298 71 C 15

San Joaquin Valley

K6MI 396 12 11 A
 AK7G 121,380 289 140 B
 K6CSL 27,531 133 69 B
 W8AKS/6 5,184 48 36 B
 N6IV 5,130 57 30 B
 K6YK 58,308 172 113 C
 K2VCO 16,218 106 51 C
 N6HK 30,552 152 67 C 20

Sacramento Valley

W6RFF 242,820 426 190 B
 W6CWM 33,792 128 88 B
 W6FA 799,257 1013 263 C
 K6LRN 406,068 548 247 C
 W6NKR 110,088 264 139 C
 W1RH/6 86,598 283 102 C
 W6RKC 390 13 10 C 160
 N6IG 380,820 1154 110 C 40

7

Arizona

N7IR 394,128 552 238 A
 K7ZD 146,412 332 147 A
 W1XT 36,900 123 100 A
 W7KW 4,134 53 26 A
 WO7T 3,069 33 31 A
 K8IA 1,044,900 1161 300 B
 W7ZMD 501,720 740 226 B
 W2HTX 83,439 219 127 B
 NN7A 76,032 198 128 B
 WM7A 71,148 196 121 B
 W7HX 21,594 118 61 B
 KC7V 1,747,980 1755 332 C
 W7YS 371,358 598 207 C
 W8AEF 275,373 423 217 C
 K7HP 201,690 405 166 C
 KY7M 190,548 402 158 C
 NI7R 147,060 285 172 C
 KX7J 48,300 161 100 C
 N7RK 10,494 66 53 C
 KJ7WY 1,638 26 21 C 160
 WA0KDS 9,648 67 48 B 20
 W7AYY 2,277 33 23 C 15

Eastern Washington

K7MM 127,374 299 142 A
 K7GS 62,418 206 101 A
 K7AWB 7,656 58 44 B
 WA7LT 941,190 1145 274 C
 W7LGG 116,064 312 124 C
 W6AEA 107,583 329 109 C
 W7GB 22,113 117 63 A 20
Idaho
 N7ZN 164,439 363 151 B
 KK7X 39,339 141 93 B
 KA7T 360,600 601 200 C
 K0TO 54,027 261 69 C 40

Montana

KE7NO 91,908 222 138 B
 KC7UP 29,388 124 79 B
 K7ABV 283,800 473 200 C
 KS7T 102,900 245 140 C
 K7BG 1,863 27 23 C 160

Nevada

N7ON 60,681 179 113 B
 K7ACZ 34,560 128 90 B
 KC7NUP 17,484 124 47 B
 WA7CWM 377,511 703 179 C
 K7AO 123,924 449 92 C 40
 W7PW 3 1 1 B 40

Oregon

W3CP 87,630 230 127 B
 AA7FK 11,856 76 52 B
 NB7F 5,940 60 33 B
 N7VS 4,158 42 33 B
 W2VJN 1,586,100 1555 340 C
 K7GK 1,563,822 1599 326 C
 W7GG 1,539,405 1629 315 C
 K4XU 431,325 675 213 C
 K0JJ 126,846 243 174 C
 N6PZ 59,607 179 111 C
 KR7X 25,842 118 73 C

Utah

KU7Z 218,400 416 175 B
 AF7O 98,280 234 140 C
 W7HS 89,880 214 140 C
 W7UT 191,400 580 110 C 20

Western Washington

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like N7XY, N0AX, NG7Z, etc.

Wyoming

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like WG7Y, KO7X, NE9Z.

8

Michigan

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like KT8K, N8KV, AB8DF, etc.

Ohio

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like N8IE, W8VE, W8ILC, etc.

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like WA8TNO, W8PN, W8EDU, etc.

West Virginia

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like KC8VCB, KN8J, K3XO, etc.

9

Illinois

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like N9IJ, KK9A, N9JF, etc.

Indiana

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like AD9T, AC9X, K9WX, etc.

Wisconsin

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like WT9Q, W9WUU, W9OA, etc.

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like W9AKS, KB9S, W9JSC, etc.

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Colorado

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like AI0L, N0TK, KI0H, etc.

Iowa

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like K0CF, AA0AI, KB0SK, etc.

Kansas

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like K0BJ, W0UY, KG0UA, etc.

Minnesota

Table with 4 columns: Code, Value 1, Value 2, and Letter. Includes entries like N0UR, WA0MHJ, NA0N, etc.

Missouri

K0GSV	197,616	368	179	B	
KS0M	160,026	298	179	B	
K0TPY	92,400	220	140	B	
K0LTB	68,136	167	136	B	
KA0P	7,290	54	45	B	
KC0LUX	2,883	31	31	B	
K2HT	243	9	9	B	
K0DEQ	596,373	739	269	C	
K0OU	430,710	586	245	C	
K0JPL	327,843	499	219	C	
AE9B	9,792	68	48	C	160

North Dakota

N7IV	39,123	189	69	B	20
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Nebraska

KB0LF	19,992	119	56	C	80
WN0L	2,400	32	25	B	40

South Dakota

K0HW	194,820	340	191	B	
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Maritime-Newfoundland

VE9DX	1,077,222	1003	358	B	
VY2ZM (K1ZM, op)	106,704	468	76	C	160
VY2LZ (K1LZ, op)	356,034	1211	98	C	80
VE1JF	403,245	1305	103	C	40
VE1NB	87,084	354	82	B	40
VY2TT (K6LA, op)	470,586	1466	107	C	20
VE1AYY	70,980	338	70	B	20

Newfoundland-Labrador

VO1MP	1,631,550	1490	365	B	
VO1HE	82,176	214	128	B	
VO1TA	61,560	342	60	C	80

Quebec

VE2AWR	593,952	736	269	B	
VE2OWL	118,560	247	160	B	
VE2FFE	25,641	111	77	B	
VE2DSK	7,056	49	48	B	
VE2AYU	1,368,510	1430	319	C	

Ontario

VA3DF	236,292	388	203	A	
VA3JFF	28,815	113	85	A	
VE3REP	17,340	85	68	A	
VE3XB	1,340,820	1170	382	B	
VE3KP	1,108,548	1113	332	B	
VE3CR	739,350	795	310	B	
VE3OM	501,903	641	261	B	
VA3PL	454,740	583	260	B	
VE3AGC	321,195	437	245	B	
VE3NBJ	288,414	441	218	B	
VE3XD	243,576	398	204	B	
VE3JCV	169,443	281	201	B	
VE3XAT	161,796	278	194	B	
VE3GLO	140,160	292	160	B	
VA3IX	96,999	217	149	B	
VE3WZ	94,500	225	140	B	
VA3UA	31,008	136	76	B	
VE3CRU	18,300	100	61	B	
VA3XRZ	16,632	84	66	B	
VE3TW	10,950	73	50	B	
VE3AT	3,986,700	2740	485	C	
VA3NR	702,144	736	318	C	
W1AJT/VE3448,740	554	270	C		
VE3XN	235,011	361	217	C	
VE3HG	32,526	139	78	C	
VE3OSZ	7,200	60	40	B	160
VE3PN	106,488	408	87	C	40
VA3SY	47,808	249	64	B	20
VE3RCN	15,147	99	51	B	20
VE3JQA	107,649	443	81	B	15
VE3UKR	38,016	198	64	B	15
VA3RJ	30,600	150	68	B	15
VE3RSA	13,083	89	49	A	15
VA3HUN	3,825	51	25	B	15
VA3SPN	108	6	6	B	10

Manitoba

VE4YU	157,140	291	180	B	
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Saskatchewan

VE5SF	321,345	555	193	B	
VE5UF	166,380	295	188	B	

Alberta

VE5UA/6	650,496	847	256	C	
VE6RST (VO1CV, op)	73,341	281	87	C	
VE6WQ (VE6JY, op)	149,940	490	102	C	40

VE6BF (@VE6JY)

360,984	1157	104	C	20	
VE6SF	63,294	274	77	C	20

British Columbia

VE7XF	403,920	612	220	B	
VE7FO	233,253	477	163	B	
VA7LC	168,750	375	150	B	
VE7BZR	78,960	235	112	B	
VE7WU	53,328	176	101	B	
VE7NH	34,125	125	91	B	
VE7UF	1,078,833	1253	287	C	
VE7JKZ	83,712	256	109	C	
VE7VR	30,492	121	84	C	
VE7SL	1,932	28	23	C	160
VE7CC	25,479	149	57	C	80
VE7NI	6,045	65	31	B	15

Single Operator Assisted**1**

KI1G	3,670,308	2371	516	C	
K1JB	2,140,236	1788	399	C	
N1DG	1,808,640	1280	471	C	
W1QK	1,739,610	1530	379	C	
AA1V	1,304,604	1002	434	C	
WO1N	1,287,078	1138	377	B	
NY1S	1,251,516	1268	329	B	
W1EBI	1,187,028	1137	348	C	
W2JU	1,135,080	1051	360	B	
N6RFM	1,130,112	981	384	C	
K1LD	1,113,330	1003	370	B	
K1AR	1,035,006	1297	266	C	
K1RV	733,257	721	339	B	
K1MO	727,350	746	325	C	
W1RZF	707,868	742	318	C	
W1HR	519,684	508	341	C	
K1MZ	517,860	630	274	B	
W1EL	451,269	551	273	C	
W1NK	447,120	540	276	B	
K1AE	368,322	391	314	C	
K1JN	303,726	454	223	B	
K1TR	281,688	484	194	C	
N1AU	270,204	356	253	C	
K1TH	227,457	381	199	C	
K1KD	143,184	304	157	C	
W1MJ	118,872	254	156	B	
K1TW	118,734	257	154	B	
WK1V	67,830	190	119	C	
WE1H	63,030	191	110	B	
N1MD	52,785	153	115	C	
WY1U	20,865	107	65	B	
NF1A	19,110	91	70	C	
AJ1M	10,812	68	53	C	
W1DAD	2,340	30	26	B	

2

K2NG	5,200,281	2943	589	C	
W2RE	4,432,560	2920	506	C	
W2WB	3,313,692	2218	498	C	
NA2U	2,818,566	2074	453	C	
NO2R	2,530,125	1625	519	C	
W2GDJ	2,364,201	1787	441	C	
K2SG	2,305,020	1874	410	C	
K2ONP	2,281,860	1811	420	C	
W1GD	2,212,095	1657	445	C	
K2QM	1,324,950	1210	365	C	
AJ3K	1,240,680	1055	392	C	
NN2W (NY6DX, op)	1,096,032	932	392	C	
W2LE	815,760	880	309	C	
K2XF	811,305	745	363	C	
N1JP	802,230	715	374	C	
K2OWE	739,206	702	351	C	
K2BX	633,456	664	318	C	
K2EP	578,994	571	338	C	
K2SB	545,280	568	320	C	
N1RK	518,925	629	275	B	
N2SS	400,320	480	278	C	
N2FF	371,259	497	249	B	
KD2HE	297,621	453	219	C	
KE2SD	217,728	378	192	B	
K2UT	186,102	294	211	C	
N2WK	170,385	307	185	C	
W2RDS	154,524	316	163	B	
K2GN	145,728	264	184	B	
W2NRA	144,969	253	191	B	
K2BM	117,813	227	173	B	
W2RD	115,221	199	193	C	
NG2P	96,276	226	142	C	
AA2MF	61,620	158	130	C	
WA3RHW	15,738	86	61	B	
K2AF	75	5	5	C	

3

K3WW	6,038,010	3762	535	C	
AA3B	4,316,235	2849	505	C	
KF3B	4,249,785	3155	449	C	
KQ3F	3,382,236	2628	429	C	
W3FV	3,109,392	2288	453	C	
NN3Q	2,316,600	1755	440	C	
WE3C	2,143,530	1401	510	C	
N3AM	2,109,240	1674	420	C	
W2UP	1,998,750	1625	410	C	
K3ND	1,507,737	1177	427	C	
N3NA	1,479,465	1405	351	C	
K3NZ	1,224,384	911	448	C	
K3CP	1,030,620	890	386	C	
K3NM	1,026,675	845	405	C	
W3AP	995,979	1003	331	C	
W4ZE	963,900	918	350	C	
N3ZA	880,713	747	393	C	
N3KN	863,394	854	337	C	
K3OO	630,765	655	321	C	
W3CF	603,315	615	327	B	
K3VA	511,896	616	277	C	
K3JG	507,870	594	285	C	
N3NR	495,180	630	262	C	
W3HVQ	479,676	563	284	C	
KB3MM	477,792	553	288	B	
N3NT	415,224	474	292	C	
WR3L	291,468	454	214	B	
W3FVT	278,922	406	229	C	
W3BG	269,178	377	238	C	
W3BW	224,910	315	238	A	
K3ATO	173,760	320	181	C	
KQ3V	43,470	126	115	B	
N3GNW	25,542	99	86	B	
NZ3O	5,547	43	43	C	

4

NI1N	1,324,800	1150	384	C	
N4DW	1,200,537	993	403	C	
N4VV	1,110,375	987	375	C	
K3KO	899,469	719	417	C	
K4YT	603,000	600	335	C	
N4TN	593,040	706	280	C	
WM3T	509,820	586	290	B	
W4ARM	448,260	620	241	B	
K3WA	344,430	445	258	B	
K4WW	294,984	482	204	C	
N4LR	234,360	360	217	C	
KU3O	189,000	350	180	B	
WT5L	186,372	334	186	B	
K4VV	182,886	326	187	C	
K8YC	127,500	250	170	C	
N4XMX	125,598	242	173	C	
K2SD	111,000	250	148	B	
KO4BB	107,406	234	153	B	
N4UY	85,023	201	141	B	
WD4OHD	50,856	163	104	B	
W4DR	27,135	135	67	C	
AA0BA	21,660	95	76	B	
N4XM	5,202	51	34	C	
K1CE	3,132	36	29	C	

5

N3BB	3,038,958	2106	481	C	
N2LA	1,729,161	1307	441	C	
N5JB	628,425	735	285	C	
K5TT	460,200	590	260	C	
K5LP	436,863	497	293	C	
W5MK	74,148	167	14		

N6KJ 34,560 120 96 B
KK6T 27,084 122 74 B

7
N6HR 435,246 602 241 C
W6SA 295,218 426 231 C
W7ZR 153,300 292 175 B
KF7E 111,600 248 150 C
AA7A 99,375 265 125 C
K8BN 92,214 218 141 C
W7SST 20,460 110 62 B
NJ7I 19,110 98 65 B
WA0RJY 8,640 64 45 A
N7JB 1,188 22 18 B

8
N8BJQ 1,933,224 1478 436 C
K8AJS 1,441,890 1299 370 C
N8KM 576,639 567 339 C
W8TN 250,614 306 273 C
K8CH 37,500 125 100 B

9
W9XT 1,602,531 1281 417 C
W9MU 1,249,749 999 417 C
K9IMM 554,400 660 280 C
K9UQN 519,168 676 256 C
N2BJ 359,832 517 232 C
K9DJ 352,500 500 235 C
K9OSH 315,228 436 241 B
NN9K 123,420 220 187 B
KB9YSI 43,815 127 115 B

0
KU1CW 2,762,298 1993 462 C
K0KX 1,863,324 1458 426 C
N0AT 1,238,178 1037 398 C
N0IJ 902,880 855 352 C
K4IU 434,112 544 266 C
K10F 353,535 481 245 B
K0CA 325,584 476 228 C
W0TT 302,976 384 263 C
W0VD 191,880 328 195 C
N0HJZ 137,808 232 198 B
KT0R 123,543 259 159 C
AA0AW 75,264 196 128 B
AC0W 65,835 165 133 B
N0ZA 54,810 174 105 C
NF0N 27,552 112 82 A
KF0GV 12,096 72 56 C
W0AMT 5,166 42 41 B
VE1OP 2,039,670 1730 393 C
VE3EY 6,765 55 41 B
VA7NT 1,225,368 1464 279 C

Multioperator Single Transmitter

1
K1IR (+K1NU, K1OA, K1VR, KE1J, W1VE)
7,374,294 4437 554 C
W2SUQ (+K1HI, K2TE)
1,672,488 1566 356 C
N1IX (+K1RX)
1,281,408 1504 284 C
W1NR (+W1BK)
1,072,302 847 422 C
N1IK (+N1IW)
229,320 392 195 B
W1SRG (AG1C, K1RDD, KB1JFG, ops)
139,950 311 150 C
W1YK (K1IW, KB1JMA, KB1KKU, ops)
18,228 98 62 C

2
K2UA (+N2MG)
4,239,690 3106 455 C
N2RM (+N2VV)
3,959,604 3333 396 C
NQ3N (+KD2I)
754,416 806 312 C
N2VW (+W2OF)
599,478 586 341 C
WA2UBK (+N2WKS)
139,230 238 195 C
K2TD (NR2NR, WA3RHW, ops)
136,245 293 155 B

3
W3BGN (+K2TW)
6,879,210 4030 569 C

NE3F (+KS3F, K3ATO)
2,226,609 1683 441 C
W3GG (+WD3I)
1,607,961 1493 359 C
N3BNA (+KD3CN, NB3I)
1,544,373 1217 423 C
N3MX (+K3YD)
607,476 713 284 C
W3LJ (+K3NCO, W3IDT)
569,121 661 287 C

4
K1RQ (+NJ1F)
429,240 511 280 B
N4AU (+K4IZN)
245,856 416 197 B
WB4JOZ (+WB4HUX, KG4OGD, KG4VVT)
1,512 24 21 C

5
K5NZ (+NT5TU, N5RP, K5MR, K5GA)
3,784,830 2345 538 C

6
W6YX (K6UFO, N7MH, W6LD, ops)
1,886,976 1638 384 C
N6KI (+VE6TN, NC6X, NN6X, N6NC)
474,804 726 218 C
W6TE (+K6AAB)
243,600 464 175 C

8
K8CC (+KK8I, W8MJ)
4,995,876 3148 529 C
WC8VOA (W8CDA, KB8ZYE, W8FEJ, W8ND,
K8CXM, KC8OAT, ops)
69,888 182 128 B

9
K9SD (+KI9A, KA0GGI, K0RAY)
2,812,407 1949 481 C
WN9O (+W9IU)
2,368,176 1648 479 C
VA3EC (+VE3RZ)
1,124,388 1044 359 C
VE6AO (VE6KC, VE6EPK, VE6RCI, 4F2IR, ops)
362,304 592 204 C

Multioperator Two Transmitters

K4JA (+W3BP, N4ZR, K7SV, AJ9C, KE9I, WE9V)
12,587,652 6692 627 C
K1KI (+K1CC, KM1P, W1RM, K2SX)
11,539,725 6275 613 C
N3RS (N3RD, N3ED, W8FJ, K3WU, ops)
10,668,060 5820 611 C
K8AZ (+K8BL, K8MR, K8NZ, N8AA, N8PW,
N8TR, W8BIN, W8CAR, W8KIC, WT8C, WO0V)
8,969,607 5059 591 C
N4RV (+K2PLF, ND3A, WR3Z, KT4W)
7,425,450 4350 569 C
W4RM (+W4NF, W7IY, K4VV, AC5RR, K5VG,
K1SE) 6,672,930 4015 554 C
K0TV (+K1HI, K2TE, N1IW, K1TWF, W1ES,
W1IA) 6,657,591 4211 527 C
N0NI (+N0YY, K0KD, W0FLS, NS0B, N0AV,
NU0Q, N0AC)
5,359,338 3254 549 C
W2XL (+KY2J, WA2JQK, W2IX)
5,299,911 3327 531 C
VE3RM (+VE3FU, VE3IAY, VE3JM, VE2NI,
VE2WU) 4,789,092 3212 497 C
W6OAT (@K6IDX) (+K2RD, WX5S)
2,263,923 1719 439 C
W8ZA (+K80QL, WD3A)
1,755,141 1303 449 C
WB8B (+WX3M)
1,481,511 1303 379 B
W2YC (+AA2WN)
1,328,940 1035 428 C

Multioperator Unlimited Transmitters

W3LPL (+K1HTV, W2GG, AI3M, K3MM, N3OC,
K3RA, K3RV, KD4D, K4ZA, K4ZW)
15,999,444 7797 684 C
K3LR (+K3UA, VE3EJ, N9RV, N3RA, N3GJ,
VE7ZO, VE3DZ, N2NC, W2RQ, W9ZRX, K8CX)
15,130,926 7439 678 C
K1XM (+NB1B, W1FJ, W1KM, K3NA)
13,626,378 7086 641 C
NY4A (K2AV, K4QPL, K7GM, N4AF, W2CS,
WJ9B, ops) 12,926,0886972 618 C

K1RX (+KF1V, N1IX, WA1S, K1EO, K1BX,
K1GW) 11,604,540 6239 620 C
K9NS (AA9D, K9GS, K9HMB, K9NO, K9PPY,
K9PW, K9QVB, K9XW, KG9X, KO9A, KS9W)
11,349,027 5847 647 C
W2FU (+N2PP, K2AXX, K0SM, K2DB, K2TER,
K1PY, W2LB, W2RLK, NA2X, ops)
11,284,989 6077 619 C
NQ4I (+W4DD, K4BAI, AA4LR, N5QQ, K4PI,
AK4XX/OH7KD, K8JQ, K5ZM, W7FB, N8VW)
10,970,256 5786 632 C
KB1H (+K1EBY, NB1U, AA1CE, K1AM, K1IN,
N4XR, NN1N, K1GX, N1XS)
10,592,640 5760 613 C
K1TTT (+K1WD, W1TO, N2KW, K1MK, W3SM,
W1EQO, NT2X, N2OW, W2GB, W2AU)
10,187,964 5549 612 C
N3AD (+K3ZV, N3DXX, N3RG)
9,983,610 5565 598 C
K5GO (+W0JOE, K5ALU, K5LG, KM5G, N5DX,
N5XR) 7,644,879 4371 583 C
W3PP (+N6ZO, WK2W, WB4FDT, K3FT, N3WDL,
NX3A) 7,474,320 4449 560 C
W0AIH 5,253,582 3161 554 C
K3II (+K3IPK, K3CT)
4,954,140 3238 510 C
K0RF (+W1XE, K7NV)
4,399,374 2831 518 C
W2NO (+W2EN, W2CG)
4,278,747 2893 493 C
K8JM (+K8DD, K8MV, AC8W)
2,640,537 1943 453 C
K3DI (+W3UL, W4EE)
1,845,828 1458 422 C
WX3B (+N3SB, N3FX)
1,226,484 1099 372 C

**DX
Single Operator
Africa**

Morocco
CN8YR 102,795 385 89 B
Cape Verde
D4B (4L5A, op)
6,245,262 6087 342 C

Canary Islands
EA8/ON5UM742,896 1407 176 B
EA8/DJ1OJ586,074 1007 194 B
EA8CN 381,996 786 162 B
EA8/OH4NL (OH2BYS, op)
311,343 1759 59 C 20
EA8/DL3KVR73,008 468 52 B 15

Egypt
SU9US 19,740 140 47 B

Namibia
V51/DL5XL 218,196 627 116 B

Ascension Island
ZD8Z (N6TJ, op)
4,883,418 4978 327 C

South Africa
ZS1AN 237,726 562 141 B

**Asia
Azerbaijan**
4K9W 13,770 102 45 B

Israel
4Z5FW 20,670 130 53 B
4X6UU 1,710 30 19 B
4X1VF 8,775 117 25 C 10

Cyprus
H2G (5B4AGC, op)
607,230 1038 195 C

Singapore
9V1YC 79,560 312 85 C

Oman
A45WD (YO9HP, op)
395,790 835 158 B

United Arab Emirates
A61AJ (S53R, op)
1,018,350 1550 219 C
A61AR (RV6LNA, op)
83,430 515 54 C 40

China
BW4/UA3VCS20,502 201 34 B 40

Kyrgyzstan
EX2X 10,368 96 36 B 20

Tajikistan					JE1SPY	36	4	3	B	160	UA9HR	16,872	152	37	C	20	
EY8MM	1,218	29	14	C	40	JH1AEP	13,362	131	34	C	80	RX9AF	11,136	116	32	C	20
South Korea					JA6SRB	3,660	61	20	B	80	RA9KM	10,656	96	37	B	20	
HL1/WX8C	62,370	270	77	B		JA1VJQ	51,570	382	45	C	40	RK9KWI	8,544	89	32	C	20
HL9TY	21,624	136	53	B		JH4UTP	38,070	282	45	C	40	RU0SN	6,528	68	32	B	20
HL5UOG	69,105	271	85	C		JM1NKT	8,424	104	27	B	40	UA9FM	6,351	73	29	C	20
HL3AMO	2,226	53	14	B	40	JR9NVB	7,500	125	20	B	40	RA9FLW	5,382	69	26	B	20
Thailand					JS1PWV	4,488	88	17	C	40	UA9OA	4,758	61	26	B	20	
HS0ZDJ (W2YR, op)	67,275	299	75	C		JA1KVT	4,020	67	20	B	40	RW9SZ	3,657	53	23	B	20
Japan					7K2MGX	2,448	51	16	B	40	RZ9IB	3,225	43	25	B	20	
JR4DAH	62,694	243	86	A		JA1HTG	1,050	35	10	B	40	UA9FGJ	1,710	30	19	B	20
JJ3JL	27,144	174	52	A		JG3EHD	342	19	6	B	40	RK9QWZ (UA9QFF, op)	390	13	10	B	20
7K4QOK (JR2BNF, op)	21,465	135	53	A		JE1KDM	108	12	3	B	40	UA0CA	35,505	263	45	C	15
JR1NKN	20,250	150	45	A		JF2VAX	96	8	4	C	40	UA0JQ	28,560	238	40	B	15
JJ2KVV	312,597	739	141	B		JA9CWJ	21,546	189	38	C	20	UA0LOD	414	23	6	A	15
J11RXQ	270,513	699	129	B		JF2BDK	15,318	138	37	C	20	Uzbekistan					
JF1OIJ	114,000	400	95	B		JA1YFG (JQ1BRW, op)	14,892	146	34	C	20	UK/JI2MED	1,767	31	19	B	
JK1AJX/7	79,182	318	83	B		JH1AZO	14,454	146	33	C	20	Kazakhstan					
JA1RKI	58,212	231	84	B		JE4QGF	2,070	46	15	B	20	UN7MO	2,652	34	26	B	
JA8CJY	53,676	213	84	B		JR4FLW	1,836	34	18	B	20	UN5J	85,854	349	82	C	
JG3LGD	53,217	219	81	B		JH0EPI	1,632	32	17	B	20	UN6P	57,159	261	73	C	
JA3AVO	51,300	225	76	B		JH3AIU	118,272	704	56	C	15	UN4PD	13,824	128	36	B	20
JE1UKM	51,030	210	81	B		JA7NVF	101,805	617	55	C	15	UN4PG	7,380	82	30	B	20
JA2VZL	45,732	206	74	B		7K4XNN	72,228	463	52	B	15	UN6LN	5,544	66	28	C	20
JA2KKA	44,730	213	70	B		JM2RUV	61,740	420	49	B	15	UN7EX	2,583	41	21	B	20
JA7BME	36,000	160	75	B		JA1CVX	55,125	375	49	B	15	UN7QF	1,224	24	17	B	20
JP1SRG	35,550	158	75	B		JS1IFK	51,408	357	48	B	15	Hong Kong					
JA3PYC	35,070	167	70	B		JA5APU	51,300	342	50	C	15	VR2BG	344,544	776	148	C	
JE3UHV	31,824	208	51	B		JF3BFS	40,848	296	46	B	15	India					
JA8AJE	31,680	165	64	B		JA2KVB	26,040	217	40	B	15	VU2NXM	780	20	13	B	
JA1CPZ	31,080	185	56	B		JA2IU	14,136	124	38	A	15	Europe					
JJ1BDX/3	30,618	162	63	B		JJ1GQH	11,760	112	35	B	15	Croatia					
JA7KM	26,163	153	57	B		JA0BMS	11,340	108	35	B	15	9A3GU	43,608	184	79	A	
JA1TCF	25,200	140	60	B		JA1XPU	7,200	75	32	B	15	9A7V	66,555	493	45	C	80
JM7TKK	23,961	163	49	B		JL3TEM	5,850	65	30	B	15	9A1P	89,424	552	54	C	15
JA5ATN	23,829	169	47	B		JA3DAY	5,775	77	25	C	15	9A7D (9A2SD, op)	88,347	601	49	C	15
7L4IOU	23,808	128	62	B		JH9BWC	5,712	68	28	B	15	9A6C	50,439	391	43	C	15
7N1BHO	22,650	151	50	B		JJ4CDW	5,460	65	28	B	15	9A3TR	63,480	529	40	C	10
JA1PS	21,417	121	59	B		JJ1IVX	5,460	70	26	B	15	9A3VM	51,528	452	38	B	10
JA1IZ	20,886	118	59	B		JG1UKW	4,500	60	25	B	15	Portugal					
JA1CP	20,562	149	46	B		JL7AIA	4,131	51	27	B	15	CS6T (CT1ILT, op)	2,379,456	2754	288	B	
JA4AQR	17,955	133	45	B		JE1RRK	3,960	60	22	B	15	CT3HF	4,590	45	34	B	
JA1XUY	17,568	122	48	B		JJ1HFJ	3,384	47	24	B	15	CT3KY	396	12	11	B	40
JR7HOD/1	17,331	109	53	B		JH0NEC	2,760	46	20	B	15	CT4DX	10,584	98	36	B	20
JF3NDW	14,580	108	45	B		JR3VFU	2,220	37	20	B	15	CT1AOZ	39,483	321	41	B	10
JH1WFK	13,671	93	49	B		JQ1AHZ	2,142	42	17	B	15	Fed. Rep. of Germany					
JA4BAA	13,560	113	40	B		JF7GDF	612	17	12	B	15	DL2WRJ	31,980	164	65	A	
JE1REU	12,936	98	44	B		JM1KNI	510	17	10	B	15	DK3WW	25,536	133	64	A	
JA6AKW	12,669	103	41	B		JL3SIK	48	4	4	B	15	DL1LAW	14,994	102	49	A	
JA7ARW	11,718	93	42	B		JL3AMK	12	2	2	A	15	DL6MHT	12,804	97	44	A	
JA1HG	11,481	89	43	B		JG2TKH	9,828	156	21	B	10	DL1HTX	8,400	70	40	A	
JE1COB	10,368	96	36	B		JF1SQC	7,884	146	18	B	10	DL3BVA	2,244	34	22	A	
JA3QOS	10,032	88	38	B		JA1NLX	3,120	80	13	B	10	DK8UE	912	19	16	A	
JH1OLB	7,128	72	33	B		J16CUK (JA1BPA, op)	2,772	66	14	A	10	DL7BY	333,423	699	159	B	
JA1FRQ	5,916	58	34	B		JH1CQA	2,736	76	12	C	10	DK5DQ	261,126	534	163	B	
JA1IWP	5,913	73	27	B		7K2PBB	66	11	2	B	10	DL3PS	258,813	579	149	B	
JJ1CUP	5,103	63	27	B		Mongolia					DF1IAQ	215,040	512	140	B		
JN7OJA	4,725	63	25	B		JT1FDD (UA3QJC, op)	49,500	330	50	C	20	DL9ZP	190,035	515	123	B	
JE2HCJ	4,125	55	25	B		Turkey					DL3NSM	187,452	492	127	B		
JH1FNU	3,894	59	22	B		TA2ZF	723,819	1333	181	B		DL1ARJ	176,472	456	129	B	
JH1MTR	3,864	56	23	B		Asiatic Russia					DK7FP	168,966	447	126	B		
JR3NDM	3,465	55	21	B		RA9SO	3,042	39	26	A		DF6LQ	165,585	415	133	B	
JJ1BBN	3,150	50	21	B		RV9COI	624	16	13	A		DL3ZAI	157,728	424	124	B	
JA1WQX	1,296	27	16	B		UA0FBS	46,308	227	68	B		DM2DXA	148,932	394	126	B	
JR1WYV	1,215	27	15	B		UA0FAI	43,848	203	72	B		DL5KUD	145,410	370	131	B	
JE1NQH	1,053	27	13	B		UA0SMF	23,628	179	44	B		DF2CH	139,500	372	125	B	
JA2KCY	1,014	26	13	B		RX9FB	16,632	126	44	B		DK7ZH	125,541	377	111	B	
JA6GCE	876,231	1411	207	C		RW9QA	15,876	126	42	B		DJ2BC	112,224	334	112	B	
JE1CKA	714,012	1196	199	C		RX9AM	14,124	107	44	B		DK8AX	100,899	303	111	B	
JH7XMO	568,080	1052	180	C		RA0UZ	9,990	90	37	B		DL8SCG	95,934	271	118	B	
JR3NZC	436,719	977	149	C		RA9XU	7,452	69	36	B		DL1TH	93,810	295	106	B	
JH7DNO	221,952	544	136	C		UA9AX	7,344	68	36	B		DK5JM	86,718	298	97	B	
JA2AXB	191,709	537	119	C		RK9CR	7,104	64	37	B		DL4NT	66,564	258	86	B	
JA7JHT	140,751	401	117	C		RV9CLF	2,394	38	21	B		DL1NKS	63,468	246	86	B	
JA2FJP	132,528	502	88	C		RM0A (UA0ANW, op)	195,360	592	110	C		DL1DQY	56,610	222	85	B	
JA1TMG	107,670	370	97	C		UA9KM	167,310	507	110	C		DL5YL	49,644	197	84	B	
JA2FSM	86,427	291	99	C		RV9JE	105,708	383	92	C		DL8DWW	47,163	199	79	B	
JA1BNW	68,838	298	77	C		UA9SP	42,300	188	75	C		DL5CD	47,163	199	79	B	
JA1HP	58,032	248	78	C		UA9OS	11,340	108	35	C		DF6WE	45,318	182	83	B	
JJ1CBY	43,200	200	72	C		RA0ALM	4,200	56	25	C		DL9FBF	34,905	179	65	B	
7N4WZI	42,174	198	71	C		UA9YAB	12	2	2	C	80	DJ2RB	33,075	147	75	B	
7J1																	

Switzerland

HB9BMY	183,924	468	131	A
HB9DAX	35,280	168	70	A
HB9DCL	21,888	114	64	A
HB9AYZ	4,212	54	26	A
HB9CZF	319,464	696	153	B
HB9ARF	251,034	602	139	B
HB9CIP	228,420	540	141	C
HB9CVE	100,734	326	103	C
HB9FAP	103,200	688	50	C

Italy

I1BAY	41,475	175	79	A
IK1PMR	20,880	120	58	A
IK3NLK	20,304	141	48	A
IZ1DFI	2,553	37	23	A
IK2NUX	149,370	383	130	B
IT9ORA	68,256	237	96	B
IK2WYI	39,960	185	72	B
IK8WEI	39,825	177	75	B
I22EID	39,780	204	65	B
IK0HIT	38,592	192	67	B
IK8MIG	33,456	164	68	B
I6FDJ	13,932	86	54	B
IV3KSE	8,640	80	36	B
IK2ECW	2,967	43	23	B
IK3OII	2,886	37	26	B
IK8YFW	396	12	11	B
I2SVA	95,040	352	90	C

IR2K (IK2HKT, op)	92,700	300	103	C
IK2AIT	90,585	305	99	C
IK4DCS	52,731	217	81	C
IK2GWH	48,000	200	80	C
IK2ANI	40,260	220	61	C
I7CSB	35,040	160	73	C
IK0YUT	29,925	133	75	C
I2PJA (I2TA, op)	46,368	336	46	C
IR4T (IK4UPB, op)	260,478	1497	58	C
I2IFT	78,936	572	46	C
IK3VIA	4,356	66	22	A
IV3MGN	27,720	210	44	B
I1/IT9LNH	126	7	6	A
IR7A (I7ALE, op)	155,376	996	52	C
IU3X (IV3SKB, op)	123,066	774	53	B
IK3SCB	42,636	323	44	B
IK1QBT	4,050	50	27	B
IR2Y	67,410	535	42	C

Sardinia

IS0IGV	172,215	445	129	B
IS0SDX	164,565	477	115	B
IS0OMH	100,737	369	91	B
IS0UWX	2,760	46	20	B

Norway

LA1PHA	1,596	28	19	A
LA1YE	165,312	448	123	B
LA7TO	54,027	207	87	B
LA8OM	43,452	213	68	B
LA7SI	9,324	74	42	B
LA2IJ	6,732	66	34	C
LA3BO	3,933	57	23	B
LA4EJ	2,109	37	19	B
LA2O	105,792	608	58	C
LA1QDA	11,970	105	38	B
LA3S (LA3BO, op)	19,530	186	35	B

Luxembourg

LX1NO	47,250	225	70	C
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Lithuania

LY4XX	921,690	1617	190	C
LY2MM	79,170	290	91	C
LY2OU	351	13	9	C
LY5A (LY2PAJ, op)	51,030	405	42	C
LY2BW	5,313	77	23	C
LY2LF	13,650	130	35	B
LY2IC	27,720	231	40	C
LY2TE	19,320	184	35	B
LY2BBF	108	9	4	B

Bulgaria

LZ2RS	138,528	416	111	A
LZ4AE	3,900	52	25	A
LZ4RV	91,047	341	89	B
LZ2BE	71,577	241	99	B
LZ2UZ	8,094	71	38	B
LZ1FJ	1,827	29	21	B

LZ2PL	401,358	886	151	C
LZ1RW	11,850	79	50	C
LZ2L (LZ2LDS, op)	12,960	144	30	C
LZ5ZI	1,215	27	15	C
LZ1V	80,019	523	51	C
LZ3SM	1,683	33	17	B
LZ2A	33,402	293	38	B
LZ1EP	14,595	139	35	B
LZ1KP	8,100	100	27	B
LZ1ZP	7,878	101	26	B

Austria

OE1BKA	5,673	61	31	B
OE5CWL	810,645	1445	187	C
OE9/G3TXF	647,130	1166	185	C
OE2G	294,234	551	178	C
OE3JOS	99,735	305	109	C
OE2M (OE2WPO, op)	52,947	333	53	C

Aland Islands

OH0R (OH2PM, op)	1,977,300	2535	260	C
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Finland

OH2FS	106,155	337	105	B
OH6DH	43,248	212	68	B
OH2LO	24,420	148	55	B
OH3HS	18,963	129	49	B
OH2NIK	6,510	62	35	B
OH6OS	101,361	299	113	C
OH2VZ	38,010	181	70	C
OH2CI	12,825	95	45	C
OH1BOI	3,078	38	27	C
OH2BH	49,794	386	43	C
OH3WD	1,824	38	16	C
OH2CV	44,697	317	47	C
OH4XX	234,552	1348	58	C
OH4A (OH6QU, op)	234,204	1346	58	C
OH8L (OH8LQ, op)	220,365	1245	59	C
OH1EB	10,791	109	33	C
OH2BAH	29,367	251	39	C
OH2XF	9,828	117	28	C

Czech Republic

OK1FKD	6,156	57	36	A
OK2BND	4,704	56	28	A
OK1HX	399,960	808	165	B
OK1QM	320,160	667	160	B
OK1BA	269,952	608	148	B
OK1VBA	257,880	614	140	B
OK2MBP	221,844	532	139	B
OK2AB	216,630	498	145	B
OK2DU	210,231	497	141	B
OK2EC	197,760	515	128	B
OK2PTS	189,720	465	136	B
OK2TCW	181,566	462	131	B
OL3W	147,015	405	121	B
OK1FC	140,118	386	121	B
OL6W (OK2FB, op)	138,873	389	119	B
OK1IBP	138,861	417	111	B
OK1EV	124,413	367	113	B
OK2BQL	110,220	334	110	B
OK1DKO	109,512	338	108	B
OK2SJ	93,900	313	100	B
OK1KZ	69,156	226	102	B
OK1AOU	67,977	249	91	B
OK2BJ	66,300	221	100	B
OK2QX	64,974	221	98	B
OK1VD	53,088	224	79	B
OK1AY	43,290	185	78	B
OK1TD	34,182	211	54	B
OK1FOG	28,938	182	53	B
OK2AJ	21,285	129	55	B
OK2PBF	15,750	105	50	B
OK2BNC	11,058	97	38	B
OK5SAZ	4,998	49	34	B
OK1RF	3,094,080	3520	293	C
OK1EW	945,966	1561	202	C
OK1DRU	749,979	1269	197	C
OK2PDT	524,055	1085	161	C
OK2ABU	313,794	702	149	C
OK1AYY	175,161	439	133	C
OK1FXX	145,926	402	121	C
OK2ZW	74,382	322	77	C
OK1AEZ	27,750	250	37	C
OK1TP (OK1JDX, op)	7,644	98	26	C
OK1WF	36,414	289	42	C
OK1XUV	20,988	212	33	B

OK2PBG	3,000	50	20	B
OL7X	90,552	616	49	C
OK1WVMV	77,328	537	48	B
OK1FPS	64,584	468	46	B
OL6T (OK1DCF, op)	31,242	254	41	B
OK1CRM	30,744	244	42	B
OK1MSP	22,176	176	42	C
OL4M	20,748	182	38	C
OK1GS	18,795	179	35	B
OK1FCA	18,036	167	36	B
OL0A	14,484	142	34	B
OK2BZM	11,880	132	30	B
OK2BYH	11,616	121	32	B
OK2BDF	6,468	77	28	B
OK2SG	6,177	71	29	C
OL4W (OK1IF, op)	3,363	59	19	A
OK2BRA	37,440	260	48	B
OL1F (OK1VWK, op)	25,671	199	43	B
OK1MMN	20,640	160	43	B
OK1BLU	8,730	97	30	B
OK2PVF	81,936	569	48	C
OK2NN	70,794	513	46	B
OK1FPG	62,100	450	46	B
OK2ZC	57,420	435	44	B
OK2TBC	11,997	129	31	B
OK1HMP	11,385	115	33	B
OK2TRN	8,343	103	27	B
OK1AIJ	4,290	65	22	A
OK1DKM	3,564	54	22	B
OK1AKB	2,280	38	20	C
OL5B (OK1KA, op)	11,136	128	29	C
OK1AES	7,644	98	26	B
OK1MGW	3,087	49	21	B
OL7R	1,632	32	17	B
OK1XC	936	24	13	B

Slovakia

OM7DX	238,788	603	132	A
OM3IAG	49,533	209	79	A
OM4WVW	189,924	476	133	B
OM4DN	175,956	473	124	B
OM5JA	147,600	400	123	B
OM7AG	114,570	335	114	B
OM2VL	102,720	320	107	B
OM3BA	82,650	290	95	B
OM7VF	81,972	276	99	B
OM4JD	47,685	187	85	B
OM1AW	41,829	191	73	B
OM3CFR	39,195	195	67	B
OM7YC	38,430	183	70	B
OM8HG	30,528	159	64	B
OM4DA	28,080	156	60	B
OM3TLE	22,968	132	58	B
OM0TT	2,850	50	19	B
OM7PA	23,790	130	61	C
OM8A (OM3RM, op)	26,784	248	36	C
OM6TY	1,872	39	16	B
OM6TX	3,816	53	24	B
OM3DX	31,740	230	46	C
OM2AW	8,118	82	33	B
OM7PY	24,045	229	35	B
OM3PQ	7,056	98	24	B
OM3KUN	4,158	66	21	A

Belgium

ON7CC	41,391	189	73	A
ON4XG	202,662	486	139	B
OR4G (ON4KJ, op)	28,161	149	63	B
ON4KVA	11,613	79	49	B
ON4CHK	10,956	83	44	B
ON4AEK	238,998	653	122	C
ON4BR	18,480	176	35	C
ON6TJ	9,570	110	29	B
ON4ZD	29,304	222	44	B
ON4BBD	61,272	444	46	B
ON6CW	38,760	323	40	B
ON4AEB	25,410	242	35	B
ON5YR	10,323	111	31	B

Faroe Islands

OY1CT	240,264	564	142	C
OY4M	96	8	4	B

Denmark

OZ8AE	211,500	470	150	B
OZ1BMA	124,932	359	116	B
OZ5WQ	70,983	239	99	B
OZ4RT	53,535	215	83	B
OZ5UR	42,822	183	78	B

UA6NZ	1,785	35	17	B	40
RA3WDK	1,248	26	16	C	40
RA3TT	5,580	62	30	C	20
RK3XWO (UA3XAO, op)					
	3,240	45	24	B	20
UA4PT/0	1,911	49	13	C	20
RK3MWC (UA3MDX, op)					
	1,701	27	21	C	20
RA6MS	1,305	29	15	B	20
RV3LQ	1,200	25	16	B	20
RN3AQ	240	10	8	B	20
U5WF	62,100	460	45	C	15
UA6AF	52,398	426	41	B	15
RA3AN	37,674	322	39	C	15
UA3DEE	12,441	143	29	B	15
RK6CM	7,575	101	25	B	15
RZ3VA	756	21	12	B	15
UA4ACP	756	21	12	B	15
RW4LQ	720	20	12	B	15
RW3VZ	429	13	11	A	15
RV3DBK	165	11	5	A	15
UA6ADC	1,665	37	15	B	10

Ukraine

UT2UZ	16,695	105	53	A	
UU4J (UU4JO, op)					
	11,988	111	36	A	
UU4JQE	2,331	37	21	A	
UT5UQV	702	18	13	A	
UR5ZQV	630	15	14	A	
UY2UA	260,712	612	142	B	
UU7JX	161,364	476	113	B	
UX4UA	90,243	271	111	B	
UT1IR	59,925	235	85	B	
US9QA	29,160	162	60	B	
UX8ZA	28,914	158	61	B	
UX8IR	26,970	155	58	B	
UT5IZ	14,550	97	50	B	
UT8IT	11,718	93	42	B	
UT5UIA	339,300	725	156	C	
UY0ZG	248,640	592	140	C	
UY5ZZ	237,984	592	134	C	
UU2JQ	93,177	261	119	C	
UT3FM	87,822	287	102	C	
UX1IL	43,092	189	76	C	
UT2QQ	41,070	185	74	C	
UR8RF	19,647	111	59	C	
UT4NY	8,748	81	36	C	
UR7EU	2,040	34	20	C	
UX5NQ	3,300	55	20	B	160
UT3UA	46,728	354	44	C	80
US0ZZ	21,087	213	33	B	80
UT7L (UY5LW, op)					
	18,216	184	33	C	80
UR5IAW	9,396	108	29	C	80
UT2II	6,060	101	20	C	80
UY6F (UX3FW, op)					
	1,845	41	15	C	80
UW7F	378	14	9	B	80
EO6F (UX0FF, op)					
	93,150	621	50	C	40
UT1YW	18,900	175	36	C	40
UR6QS	6,975	93	25	C	40
US5QQF	4,761	69	23	B	40
UT4PZ	3,528	49	24	B	40
UX8FA	2,091	41	17	C	40
US7IB	1,440	30	16	B	40
UX0ZX	26,772	194	46	B	20
UY2ZA	8,544	89	32	B	20
UY5YA	4,056	52	26	C	20
UR5MID	450	15	10	B	20
UU7J (UU0JX, op)					
	87,702	622	47	C	15
UR5IFB	51,336	372	46	C	15
EN1U (UX1UA, op)					
	20,634	181	38	C	15
US7IGF	20,394	206	33	B	15
UT5UT	14,595	139	35	C	15
UY5TE	10,530	117	30	B	15
US0KW	6,552	78	28	B	15
UT5UML	1,302	31	14	C	15
UT1IA	897	23	13	B	10

Latvia

YL2TW	94,554	306	103	B	
YL3DX	68,172	247	92	B	
YL2PN	18,096	116	52	B	
YL2GD	394,440	760	173	C	
YL2LY	126,945	403	105	C	
YL2EC	8,988	107	28	B	15

Romania

YO8WW	94,245	305	103	A	
YO3APJ	457,800	872	175	B	
YO4ATW	172,398	487	118	B	

YO7LGI	62,640	232	90	B	
YO6KNY	25,560	142	60	B	
YO4RPL	7,296	76	32	B	
YO4GDP	6,912	64	36	B	
YO8BDW	4,896	51	32	B	
YO2IS	4,602	59	26	B	
YO7ARY	2,394	38	21	B	
YO7BGA	1,350	30	15	C	
YR2I (YO2LDC, op)					
	56,970	422	45	C	80
YR7M (YO3JOS, op)					
	128,865	781	55	C	40
YO5CBX	40,128	304	44	B	40
YO2RR	38,055	295	43	C	40
YO2GL	10,170	113	30	B	40
YO3FF/P	7,308	87	28	C	40
YO9AGI	13,320	120	37	B	20
YO8BIG	10,914	107	34	B	20
YO5AY	627	19	11	B	20
YP3A (YO3GDA, op)					
	113,400	756	50	C	15
YO6BHN	2,052	38	18	B	10

Serbia and Montenegro

YU7CB	107,016	343	104	A	
4N0W	489,279	1013	161	B	
YT7KM	371,106	778	159	B	
YU1FG	195,774	487	134	B	
YU1EQ	189,930	487	130	B	
YU1WC	188,325	465	135	B	
YU7AM	94,233	311	101	B	
YT1AT	81,213	253	107	B	
YU1PJ	22,776	146	52	B	
YU1EXY	32,079	289	37	C	160
YZ7A (YU7CM, op)					
	21,168	196	36	C	160
4N7ZZ	810	18	15	B	160
YU1RA	12	2	2	B	160
4N1A (YU1BV, op)					
	64,032	464	46	B	80
4N200A (YT1HA, op)					
	167,109	1051	53	C	40
YT3A (4N1JA, op)					
	160,056	988	54	C	40
4N7M (YZ7EM, op)					
	51,747	367	47	B	40
YZ1V	44,955	333	45	B	40
YT1LT	37,023	301	41	B	40
YU1TT	33,768	268	42	C	40
YZ1U (YU1WS, op)					
	122,808	731	56	C	20
YU7KM	16,317	147	37	B	20
YZ1AU	138,750	925	50	C	15
YT1NT	128,700	825	52	C	15
YT7W (YU7NU, op)					
	98,532	644	51	C	15
YU7KWX (YU7EE, op)					
	91,287	621	49	C	15
4N1N (YT1BX, op)					
	86,100	574	50	C	15
YT0X (YT7AW, op)					
	71,685	531	45	B	15
YU1IG	24,948	231	36	B	15
4N1GZ	6,840	76	30	B	15
YU1JU	8,829	109	27	B	10

Macedonia

Z36W	300,588	677	148	B	
Z32AF	882	21	14	A	80
Z33F	11,397	131	29	B	40

Albania

ZA/UT7DW	58,860	218	90	B	
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North America

Bahamas					
C6AWS (W6SJ, op)					
	563,850	1074	175	B	
C6ALK (K7RE, op)					
	142,128	846	56	C	160
C6AKQ (N4BP, op)					
	255,765	1445	59	C	80
C6ASB (AK0M, op)					
	14,484	142	34	A	20
C6APG (K4PG, op)					
	97,944	583	56	C	10

Cuba

CO8LY	69,801	439	53	B	160
CO2JD	220,284	1266	58	B	40

Guadeloupe

FG5BG (F6IRF, op)					
	221,604	1252	59	C	80

Martinique

FM5BH	5,222,088	5307	328	C	
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Dominican Republic

N7OU/HI					
	93,969,600	4135	320	B	
HI8/JA6WFM					
	1,517,760	2108	240	B	

Panama

HP1/NV7X	9,963	81	41	A	
HP3XUG (KG6UH, op)					
	303,096	584	173	B	

Honduras

HR3/K7TR	16,002	127	42	B	
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Grenada

J37LR (VE3EBN, op)					
	517,131	963	179	B	

St. Vincent

J88DR	2,393,370	3045	262	B	
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Alaska

KL1V	318,999	941	113	C	
AL1G	285,285	715	133	C	

Virgin Islands

KP2CW (K6VVA, op)					
	4,462,533	4467	333	C	
WP2Z (K3MD, op)					
	3,854,655	4079	315	C	

Puerto Rico

WP3R (K9PG, op)					
	5,436,576	5268	344	B	
NP3/N9FJ (W19WI, op)					
	1,602,342	2198	243	B	
WP4F	37,200	200	62	B	
KP4JRS	22,176	112	66	B	
WP4LNY	15,429	139	37	B	15

Greenland

OX2KAN	74,052	242	102	B	
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St.Maarten Saba St.Eustatius

PJ7/OE3GEA	2,829	41	23	B	
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Costa Rica

TI3M (TI3TLS, op)					
	253,692	1458	58	C	20

Belize

V31DJ (W0CP, op)					
	5,497,902	5406	339	C	
V31YN	71,298	466	51	B	160

St.Kitts & Nevis

V47KP (W21OX, op)					
	3,122,076	3446	302	C	

Turks & Caicos Islands

VP5M (K7BV, op)					
	5,139,966	5069	338	C	

Bermuda

VP9/W6PH					
	3,544,230	3811	310	B	
VP9/K9CC					
	1,879,248	2303	272	B	

Mexico

XE2AC	1,360,815	1765	257	B	
XE1MM	1,299,906	1686	257	B	

DS2QJS	7,110	79	30	B	20
Hawaii					
KH6/AA4V	259,644	562	154	B	
AH6HH	17,400	100	58	B	
KH6/N6KB	5,394	58	31	C	160
Palau					
T88XZ	1,887	37	17	C	40
T88LZ	32,103	261	41	C	15
Australia					
VK2FRC	169,722	449	126	B	
VK6DXI	67,320	264	85	B	
VK7GN	61,752	248	83	B	
VK6HG	49,938	203	82	B	
VK2GR	36,630	165	74	B	
VK3DBQ	17,172	106	54	B	
VK8AV	13,806	78	59	B	
VK4TT	13,800	100	46	B	
VK4UC	56,259	399	47	B	40
VK2CZ	264	11	8	B	10
Indonesia					
YB0ECT	64,218	278	77	B	
YB0WWW	3,402	42	27	B	
YC3MM	1,938	34	19	B	
YB0AJR	11,583	99	39	C	
YC2CJQ	1,008	24	14	B	15
New Zealand					
ZL2BR	432,765	815	177	B	
ZL1AIH	216,522	523	138	B	
ZL2AL	81,576	264	103	B	
ZL/W3SE	15,048	152	33	B	20
South America					
Guyana					
8R1K (OH0XX, op)	4,312,872	4383	328	C	
Uruguay					
CX9AU	345,150	767	150	B	
CX7BY	232,731	1361	57	C	15
French Guiana					
FY5KE (F5MZN, op)	2,603,598	2962	293	A	
Galapagos Islands					
HC8L (W6NL, op)	5,226,000	5200	335	C	
Colombia					
HK1HHX	648,090	1137	190	B	
HK3AXY	29,928	232	43	B	15
Argentina					
LU5FZ	360,036	822	146	A	
LU5FF	1,072,773	2067	173	B	
LU1EWL	601,974	1262	159	B	
LU8ADX	189	9	7	B	40
LU1FZR	195,408	1104	59	C	20
LU8EGS	855	19	15	A	20
LU5FC	231,534	1354	57	C	15
LW5EE	88,452	567	52	B	15
LP0H	86,292	564	51	C	15
LT1F (LU2FM, op)	284,316	1634	58	C	10
LT5F (LU4FPZ, op)	249,039	1407	59	C	10
LT1A (LU3CT, op)	199,926	1149	58	C	10
LW2DX	34,188	259	44	B	10
Peru					
OA4SS	2,139,858	2754	259	C	
Aruba					
P40W (W2GD, op)	4,773,798	4694	339	B	
P40LE (K2LE, op)	953,268	1406	226	B	
P40Y (AE6Y, op)	5,314,680	5180	342	C	
P40G	360,726	2038	59	C	15
P43JB	149,364	922	54	C	10
Brazil					
PY1NX	1,705,401	2283	249	B	
PV8DX	1,536,120	2008	255	B	
PY7EG	150,822	513	98	B	
PY2NB	71,604	351	68	B	
PP7ZZ	44,622	201	74	B	
PY2PT	1,440	24	20	B	
PR2F (PY2NDX, op)	1,870,575	2545	245	C	
PY2WB	209,874	526	133	C	

PR7AR	90	6	5	B	80
ZZ8Z (PY8AZT, op)	180,063	1053	57	B	20
PY2NY	174,420	1020	57	B	20
PY2NA	116,070	730	53	B	15
PY1KN	108,864	648	56	C	15
PY7ZY	82,836	531	52	B	15
PY4FQ	54,924	398	46	B	15
PY8MGB	20,592	176	39	B	15
PY2YU	4,698	58	27	C	10
Venezuela					
YV5OHW	1,147,254	1787	214	B	
YV1DIG	67,392	432	52	C	160
YV5MBX	1,218	29	14	B	160
YV4YC	420	14	10	B	160
YV7QP	10,476	97	36	B	40
4M4C (YV4GLD, op)	193,992	1096	59	C	20
YV5AAX	39,480	280	47	B	20
Single Operator Assisted					
Asia					
JY9QJ	243,945	585	139	C	
JA0FVU	72,900	270	90	B	
7M4CDX	64,722	322	67	C	
JK1XMN	13,029	101	43	B	
JK2VOC	5,916	68	29	B	
Europe					
DL5AWI	1,996,893	2493	267	C	
DK3GI	1,881,684	2489	252	C	
HG3M (HA3MY, op)	1,867,536	2358	264	C	
YT7A (YU7GMN, op)	1,662,507	2399	231	C	
YU1ZZ	1,302,480	1809	240	C	
SN8F (SP8FHK, op)	1,211,364	1748	231	C	
G3LZQ	696,618	1014	229	C	
LY3UM	624,708	1036	201	C	
YL0A (YL2KA, op)	584,394	1126	173	C	
DL1IAO	573,066	1027	186	C	
DL6KVA	528,882	974	181	C	
IK2A00	527,814	994	177	C	
OE8CIC	468,528	908	172	C	
YL8M (YL2KL, op)	441,936	1023	144	C	
DH0GHU	364,296	706	172	C	
SM6CNN	355,203	647	183	C	
RD3A (RD3AF, op)	341,508	764	149	C	
ON5ZO	331,857	723	153	B	
DL5WW	281,295	665	141	C	
SP3JIA	264,972	622	142	B	
DJ5IW	263,730	590	149	C	
DM3PKK	216,810	495	146	B	
DJ9MH	200,694	403	166	B	
IK0YVV	182,520	468	130	C	
LZ4UU	181,164	487	124	B	
ON9CC	175,404	622	94	C	
DL4YAO	174,324	398	146	C	
DL1DXA	163,080	453	120	C	
LZ9R	139,476	394	118	B	
RA3CO	114,576	341	112	B	
OH4RH	103,104	358	96	C	
9A3OS	101,577	691	49	C	
PA0JED	92,082	298	103	B	
HA5PT	90,750	275	110	B	
OE5OHO	90,117	323	93	C	
OZ0F	85,143	281	101	B	
PA5DD	61,710	242	85	C	
8S0F (SM0OGQ, op)	59,400	264	75	B	
PG3N	43,587	167	87	B	
ON4CAS	42,336	196	72	B	
RA1WJ	40,044	188	71	C	
LZ2DF	39,639	181	73	C	
G3VQO	34,983	169	69	B	
EA1DX (EA5FID, op)	33,726	146	77	C	
LY2BVB	28,980	161	60	B	
DL4RCK	24,924	124	67	B	
SV1XV	18,270	105	58	B	
EI9ES	17,640	105	56	B	
S53AU	12,240	80	51	B	
HA2VR	3,240	40	27	B	
North America					
V26G (N2ED, op)	4,419,576	4424	333	C	

Oceania					
KH7X (KH6ND, op @KH6YY)	4,987,263	4933	337	C	
ZL3GA	8,541	73	39	B	
South America					
PY2YP	1,364,880	1936	235	C	
PS2E (PY2EX, op)	816,144	1388	196	C	
LU3HIP	357,570	870	137	B	
Multioperator Single Transmitter					
Africa					
EA8ZS (+EA8AHB, EA8AVK, EA8DP, EA8BYM)	2,561,418	3174	269	C	
Asia					
JA2ZJW (+JH2CMI, JH2SON, JA2XYO, JA2CUS)	806,490	1305	206	C	
JA7YAA (+J15RPT, JG7PSJ, 7M1JAS, JE7HLZ, JO7FTJ, JH0NZN, JO7DJT)	728,028	1284	189	C	
RZ9OZO (UA9PC, RZ9UA, ops)	187,440	568	110	C	
RW9C (RW9CF, UA9CGA, ops)	155,940	452	115	C	
RZ0IWR (UA0IAS, UA0-138-237, ops)	18,480	176	35	B	
JA1KQX (+7N2KRX)	9,594	78	41	C	
Europe					
OM7M (OK2BFN, OM3PA, OM3PC, OM5RM, OM5RW, OM5ZW, ops)	2,518,776	3042	276	C	
IR4M (IK3QAR, IK4HVR, IK4MGP, IK4SXJ, IK4UNH, IK4WMH, ops)	2,389,410	2865	278	C	
EI7M (EI5HB, EI9HC, EI4BZ, EI6BT, EI5GM, ops)	2,320,302	2854	271	C	
HG1S (HA1TJ, HA1DAC, HA1DAI, HA3LN, HA1SN, HA1AH, HA1AR, HA1AV, HA1SD)	2,303,847	2813	273	C	
IR4X (I4VEQ, I4TJE, I4IND, IK4DCT, IZ4BOY, ops)	2,250,168	3074	244	C	
IQ2CJ (IK2JUB, IK2PL, ops)	2,184,468	2948	247	C	
4U1ITU (HB9DTM, LA7JO, OM3CGN, ops)	2,141,790	2914	245	C	
OL3A (OK1AY, OK1CM, OK1DRQ, OK1DX, OK1FCJ, OK1MR, ops)	2,004,300	2620	255	C	
OM5M (OM4DW, OM2RA, OM5DW, ops)	1,612,494	2297	234	C	
LY7Z (LY2CY, LY2TA, ops)	1,524,390	2074	245	C	
OH5DX (+OH1MM, OH3WW)	1,350,648	2028	222	C	
OM4A (OM4EX, OM4XA, OM4TX, OM4RK, ops)	1,264,734	1998	211	C	
IO4T (IK4VET, IK4XCL, IK4ZHH, ops)	1,254,006	1794	233	C	
OL1C (OK1AN, OK1IEC, OK1IPS, OK1FPQ, OK1DUG, ops)	877,635	1485	197	C	
RF3A (RD3DG, RK3AW, RK3FM, RK3FT, ops)	515,214	987	174	C	
LZ1ABC (+LZ1AQ)	498,756	934	178	C	
I1NVU (+IK1CLP)	315,432	674	156	C	
OL9S (OK1DEK, OK1DOS, ops)	284,856	572	166	C	
OL2A (OK2HBY, OK2PDK, OK2PEM, ops)	213,408	624	114	C	
RW3WWW (RA3WJ, + ops)	115,875	375	103	C	
SP9KRT (SP9ADU, SP9-1753, ops)	108,756	318	114	B	
UR4LWY (UR5LJC, UR4LQA, US-L-1016, ops)	84,384	293	96	C	
SM2LIY (+SM2ODB)	69,276	251	92	C	
UR4PWC (UT4PZ, US-P-361, ops)	63,042	266	79	C	
OL5DX (+ops)	44,100	175	84	B	
OK1KCF (+ops)	41,310	170	81	B	
UR6GWZ	14,280	119	40	B	
RK3XWD (RA1ZZ, R3X-548, ops)	2,451	43	19	C	

North America

8P9JA (AA4NC, K4MA, ops)
5,953,320 5752 345 C
VP5K (K9RS, AG9A, ops)
5,900,688 5652 348 C
V26DX (K2DM, K3ZM, ops)
4,668,327 4673 333 B
T48K (CO7GG, CO8JY, CO8DM, CO8KA,
CO8ZZ, ops)
3,209,394 3407 314 C

South America

LQ7D (LU5CW, LW7DX, LW9DA, ops)
1,826,220 2767 220 C

Multioperator Two Transmitters**Asia**

JA1ZLO (+JM7WXN, 7N3PZJ, JG1VGX, JI0VWL)
424,872 843 168 C
JA1YPA (+JA1PEJ, JH1FDP)
39,420 180 73 C

Europe

DL1MGB (+DL4RDJ, DL6RAI)
3,333,876 3913 284 C
HG6N (HA3OV, HA6ND, HA6ON, HA6PN,
HA6NY, YO5BRZ, ops)
2,726,346 3269 278 C
OM0M (OM3BH, OM7ZZ, OM8AW, OM0WR,
ops) 2,624,760 3170 276 C
DA0BCC (DF9LJ, DK2OY, DL9EE, ops)
2,549,337 3281 259 C

RU1A (RU1AA, RV1AW, UA1ARX, RA1AIP, ops)
2,251,890 2865 262 C
ES5Q (ES5TV, ES5RY, ES5MC, ES5QX, ES5JR,
ops) 2,047,407 2719 251 C
RW2F (UA2FB, UA2FF, ops)
1,975,248 2552 258 C
RM6A (RN6BN, RN6AA, RA4LW, UA4LCH,
RA6CM, RU6CQ, RA6CO, ops)
1,753,956 2348 249 C
OZ5W (OZ1FTU, OZ1KRF, OZ3W, ops)
1,730,799 2317 249 C
LY4A (LY2FY, LY2CO, LY3CI, LY4CW, ops)
1,484,604 1956 253 C
OH6NIO (+OH6CS, OH6LHB)
378,144 808 156 C

North America

FS5UQ (K3LP, N3KS, K4EU, N8II, W3ARS,
N7DD, ops)
8,084,736 7744 348 C
J7OJ (K5KG, K3TEJ, W4IX, ops)
7,924,350 7547 350 C

South America

PJ2T (N1ZZ, W8TK, W8AV, W0CG, W0NB, ops)
8,091,693 7773 347 C
PJ4R (K8E, W9RE, N5OT, ops)
7,612,425 7355 345 C
LU7DW (+JK3GAD)
182,784 512 119 C

Multioperator Unlimited Transmitters**Asia**

JA3YBK (+JG3KIV, JH4NMT, JF4FUF, JR4PMX,
JG3KIV, JH4NMT, JF4FUF, JR4PMX)
2,295,915 2845 269 C
JE1ZWT (+JA1MML, JF1SEK, JG1ILF, JI1ALP,
JN1MSO, JP1JFG, JR1GSE, JR7MZC)
1,505,580 2182 230 C

Europe

CS6V (DL3OI, DL4LQM, DL4WG, DL5AXX,
DL5LYM, DL8WAA, ops)
7,202,835 7167 335 C
9A1A (9A5W, 9A5E, 9A6A, 9A7R, 9A4WW,
9A2DQ, 9A8W, 9A9A, ops)
4,938,129 5327 309 C
LZ9W (LZ1ANA, LZ1ZD, LZ1UQ, LZ1PM,
LZ2HM, LZ2CJ, LZ2PO, LZ3UM, ops)
2,322,594 3186 243 C
LY7A (LY1EE, LY2NK, LY2OC, LY2UF, LY3BS,
LY4AA, LYR346, ops)
1,382,700 2095 220 C
OH2K (OH2LNH, OH2LRE, ops)
203,205 589 115 C

North America

J6DX (K9JE, K16T, N0FW, N6JRL, N9AG,
W8QID, WA1T, ops)
6,768,798 6521 346 B
TI5N (K17Y, K7AR, W7YAQ, TI2WGO, WJ7R,
ops) 6,723,834 6631 338 C