

# 2004 ARRL International DX Phone Results

Break out the low bands!

*“Alternating currents are dangerous. They are fit only for powering the electric chair.”—Thomas A. Edison*

The ARRL DX contest is one of the oldest, if not *the* oldest contest in existence. First run in 1928, it exemplifies the urge to push your operating and station abilities to the maximum. I’m not sure there is any deeper urge in ham radio than to make QSOs at the very limit of your range and then to extend that range. DX is!

Despite the between-cycle funk, the ARRL DX contests remain extremely popular. 929 DX stations and 1337 US stations submitted phone logs, five more than last year. The total number of stations was even higher than last year, judging from the 15 meter QSO totals of K3LR with 2421 and FY5KE with 3467.

## Write-up Notes and New Features

This year, I am very pleased to be able to present a Clean Sweep of Division reviews. We also added Europe to the list of continental reviews and a special review of the Caribbean region is included. Please take a moment and thank the writer who took time out to do the analysis from your area. ARRL members can read these exciting additions on the ARRLWeb at [www.arrl.org/contests/results](http://www.arrl.org/contests/results) and selecting the link for the “Web Report.”

Also included are features by Jim Idelson, K1IR, who assembled the winning Multi-Single entry for both CW and Phone this year; Doug Grant, K1DG, with a retrospective on “The 1979 ARRL DX Contest—25 Years Ago” and Ken Harker, WM5R, who contributes several sets of maps that give you a new picture of how the contest played out around the US.

Don’t forget that the *QST*-style line scores are available on the ARRLWeb, just like they always were in the magazine.

## Records

The low-flux years of solar cycles are not the years during which lots of records



**TI8M, which finished 4th in the Multi-Two category for the world, was ably manned by (back, from the left) Carlos, TI2KAC; Bob, W4BD; Eddie, K4UN, and Brian, NA4BW; (front) Mauricio, TI2MOT; Keith, W4KTR, and Bill, K4WPM.**



**ARRL HQ staffer Dan Miller, K3UFG, spent time Elmering aspiring ham Jordan Sakal at W1AW.**

## Expanded Results, Line Score Printouts Available

For complete contest results online, please visit [www.arrl.org/contests/results](http://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.

are set. (The complete set of ARRL DX records for both SSB and CW are available at [www.arrl.org/contests/](http://www.arrl.org/contests/).) The Records Set table shows the complete list of the continental, national and district-level records set this year.

The oldest DX record broken this year was the 1988 SO-20 meter South American record previously held by HC1HC. It was convincingly snagged by KK9A operating from the sunny island of Aruba at P4ØA by a margin of nearly a third. The longest-held domestic record that vanished from the scene was the 1995 SO-40 meter record for the 6th call district. Jim, N6IG, added another 3rd to Glen K6NA’s old high-water mark this year. The oldest ARRL DX records still standing are both multi-multi efforts from 1979 by KØRF (SSB—10th district) and W7FU (CW—7th district).

The largest proportion by which a record was broken was claimed by Mr Oceania, Mike, KH6ND, operating at KH6YY’s station (KH6YY is the new proprietor of the KH7R station) in the SO-Assisted category. Mike’s score is nearly six times the old record, set in 1996.

In “The Large Print Giveth and the Small Print Taketh Away” department, Alfredo, HC1HC, set a new record in the SOAB-QRP category, but lost his old SO-20 record to KK9A at P4ØA. Dang!

## Exceptional Performances

Paul “The Energizer Bunny” Gentry, K9PG, continues to live in the #1 DX position, taking both modes SOAB-LP this year from WP3R where you may recall that Paul racked up both of the top scores in SOAB-HP last year.

No secret to regulars on the contest scene, Dan Handa, W7WA, is a formidable competitor in the single-band ranks. Low sunspots? No problem, Dan just pushes his 20 meter record up another 20 percent this year! (VE6WQ also pushed the VE 20 meter record by almost as much from the super VE6JY station.)



tals for multipliers, leading the category in multipliers on 40 through 10 meters. N1UR moved way up this year—from seventh to second—and had the highest LP QSO total. New to the LP Top Ten this year are all five of the 6th through 10th place finishers: W1JQ, KG1E, N1PGA, N8WRL and K8IA.

## US-VE High Power

Who is that way in front, Lance Armstrong? No, but it looks like Jeff, K1ZM, in the guise of VY2ZM is going to make a run at Lance's record of wins. Jeff is going to be mighty tough to beat as he increased his score by 10 percent this year. Another Canadian station took the 2nd spot this year as John, VE3EJ, pushed his 2003 total almost 20 percent! There must have been something in the Indiana drinking water this year! N9RV and W9RE rocketed to 3rd and 5th this year from the flat farming country, bracketing K4ZW, a new call to the HP Top Ten this year.

## US-VE Assisted

As in the SOAB-HP category, the top scores improved slightly, despite the lack of 10 meter propagation. The term "packet" is really a misnomer in many areas of the world as packet radio stations are replaced with packets on the 'net.

Congratulations to Ray, W2RE, for coming out on top of this tough category by just a few percentage points. Hotly pursued by Saul, K2XA, and Chas, K3WW, the Assisted category had the closest finish among the Top Ten this year. To give you an idea of how hard these guys were working, the top six HP stations (W2RE, K2XA, K3WW, W2WB, W2GD and K1AR) all logged DXCC on both 20 and 15 meters. K1LD was the runaway leader of the LP group, outdistancing N0FW and WA1Z who were quite close.

Don't forget—if you peek at the spots or your software monitors Internet spotting traffic, you're in the Assisted class. It's okay to send your own spots and chat, as long as you don't receive spots or information about the frequencies of other stations. "Running spots" is fun, but it's not fair to the Single-Op entrant who doesn't have the same advantage. Don't be a "packet poacher."

## US-VE Single-Band

As expected, the single-band log total increased to 199. The exodus from 10 meters is on and folks seem to be headed to 15, 20, and 40 meters. 20 meters had the biggest increase and is probably the most popular single-band category throughout the cycle, followed closely by

15 meters. I think 10 meters is the most fun when it's open, but it's not much fun to listen to receiver hiss in the off years. We haven't reached optimum conditions for 80 and 160 meters, but you'll see more logs on those bands in 2005 through 2007. The next few years will be a great opportunity to go after the low-band multipliers to round out a DXCC or add to your band-entirety totals.

**10 meters:** Without belaboring the obvious, 2004 was a very different contest than in previous years. Jim, K5RX, and Courtney, K4WI, did battle from the southern states of TX and AL to a nip-and-tuck finish with K5RX coming out on top 36 to 35 kpoints—a 2.2% difference. Stations farther north and west found the going pretty difficult.

**15 meters:** One of the most popular bands for DX-ing and contesting, 15 meters kept everyone busy with plenty of action and multipliers to hunt. Making a move from 40 meters last year, Larry, N7DD, picked up a convincing single-band win from AZ on 15 this year with 695 K, outdistancing N4PN's 615 K from NFL and KV0Q's 484 K from CO. There were seven DXCCs logged by the Top Ten—along with the top three finishers, hats off to N3HBX, WE2F, W7UT and N5TW in the hands of KC5YKX.

**20 meters:** Twenty is a band that's always there, year in and year out, to the point where we kind of take it for granted. Two in particular stand out this year: VE6JY (operated by Joel, VE6WQ) and Dan, W7WA. Not content to just win, Joel

## Records Set in 2004

Category	Call District	Call	New Record	Old Record	Year Set
SOAB-HP	VE	VY2ZM	5,647,008	5,513,712	2000
SO-Assisted	0	K0KX	1,738,335	1,576,368	2000
SO-20	7	W7WA	767,016	577,866	2003
SO-20	VE	VE6WQ @ VE6JY	933,525	715,428	1998
SO-40	4	K4XS	268,761	245,127	2000
SO-40	6	N6IG	207,603	164,016	1995

Category	Continent	Call	New Record	Old Record	Year Set
SOAB-LP	NA	K9PG @ WP3R	6,028,056	6,011,520	1999
SOAB-QRP	SA	HC1HC	1,584,360	1,223,388	1993
SO-20	SA	KK9A @ P40A	607,290	486,330	1988
SO-40	EU	F6CTT	257,220	240,096	1993
SO-Assisted	OC	KH6ND @ KH6YY	6,205,416	1,078,680	1996

## Continental Leaders

### Single Operator QRP

Asia	JA2MWW	10,815	Oceania	YB0ECT	23,436
Europe	F5BEG	156,375	South America	P40A (KK9A, op)	607,290
North America	T15N (W8QZA, op)	1,246,050			
South America	HD8A (HC1HC, op)	1,584,360			

### Single Operator Low

Africa	EA8/DJ1OJ	3,864			
Asia	JM1LPN	207,090			
Europe	EA7RM	799,920			
North America	WP3R (K9PG, op)	6,028,056			
Oceania	FK8HN	250,368			
South America	HK3JJH	1,189,440			

### Single Operator High

Africa	CN2R (W7EJ, op)	5,960,034			
Asia	JH4UYB	1,135,428			
Europe	OK1RI	3,150,504			
North America	8P1A (W2SC, op)	9,468,711			
Oceania	VK4UC	413,478			
South America	P40L (W6LD, op)	6,757,338			

### Single Band 160

Europe	CU2CE	23,760			
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### Single Band 80

Asia	RW0MM	2,565			
Europe	GI0KOW	153,285			
North America	CO8KA	135,240			
Oceania	KH6QJ	105			
South America	YV4BU	130,200			

### Single Band 40

Asia	JA8NFB	51,450			
Europe	F6CTT	257,220			
North America	KL7RA	134,406			
Oceania	VK2KPP	116,280			
South America	YV5NN (YV5NWX, op)	106,020			

### Single Band 20

Asia	EX2M	135,720			
Europe	SO2R	507,408			
North America	ZF2AH	612,684			

South America	P40A (KK9A, op)	607,290
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### Single Band 15

Africa	EA8LS	215,586
Asia	JA7NVF	179,640
Europe	GI0NWX	387,180
North America	CO8ZZ	300,420
Oceania	KH6GMP	71,073
South America	PS2T (PY5EG, op)	490,296

### Single Band 10

Asia	JH1OCC	90
Europe	CU2AF	5,922
North America	HP3XBS	309,024
South America	LT1F (LU1FAM, op)	446,220

### Single Operator Assisted

Asia	UA0SE	39,432
Europe	DL1IAO	1,469,412
North America	KP4KE (DK8ZB, op)	4,896,774
Oceania	KH7X (KH6ND @ KH6YY)	6,205,416
South America	LU1NDC	2,374,752

### Multioperator Single Transmitter

Africa	EA8ZS	2,542,590
Asia	JJ2ZJS	642,003
Europe	IR4X	3,063,741
North America	VP5B	7,461,300
Oceania	DU9DWW	23,352
South America	PJ4G	7,313,220

### Multioperator Two Transmitter

Asia	JA1YPA	27,081
Europe	HG6N	2,634,645
North America	V26DX	7,262,541
Oceania	AH6NF	23,520
South America	PJ2T	12,484,800

### Multioperator Unlimited Transmitter

Asia	JA3YBK	1,331,190
Europe	9A1A	3,146,610
North America	VQ5A	10,867,860

## 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)		
VY2ZM	5,647,008	C	K4ZW	4,079,790	C	VE3EJ	4,572,756	C	W0GG	893,700	C	K7RL	2,710,950	C
AA1K	3,356,298	C	WA4TII	982,800	C	N9RV	4,295,280	C	N0VD	755,580	C	W7GG	1,866,240	C
K3ZO	3,319,470	C	KZ2I	811,125	C	W9RE	3,833,925	C	KT0R	597,534	C	WA7LT	1,171,500	C
K3CR (LZ4AX, op)			N8II	756,750	C	VE3AT	3,526,551	C	W0BH	592,371	C	N6AA	1,047,360	C
	2,914,377	C	N4NW	714,063	C	VE3XN	1,082,880	C	K5XR (W5ASP, op)			K5RR	917,448	C
K3NA	2,914,128	C								302,679	C			
N1UR	965,358	B	N8WRL	687,192	B	N4TZ	818,730	B	N5AW	1,029,231	B	K8IA	672,360	B
N1SV	823,032	B	KC8FS	616,998	B	K8NVR	511,500	B	AC0W	660,600	B	N6NF	574,560	B
KS1J	766,800	B	N4IG	568,080	B	VE3CR	508,542	B	VE5SF	530,550	B	W7YAQ	400,020	B
W1JQ	704,472	B	WB3BEL	478,590	B	KD9MS	360,855	B	WD5K	508,254	B	VE7NS	377,058	B
KG1E	694,035	B	KT4Q	474,948	B	K9JE	320,742	B	KE5LQ	323,637	B	N6RV	352,152	B
KA1LMR	424,032	A	N4KG	529,584	A	N8IE	378,336	A	W0AH	267,036	A	K7MM	130,476	A
N1TM	201,285	A	K4WY	92,856	A	N8XA	57,960	A	WA8ZBT	96,159	A	W6AQ	111,321	A
K3TW	83,880	A	KR1ST	26,730	A	VA3JFF	20,520	A	N0UR	77,922	A	N6AZR	44,376	A
WB7OCV	17,136	A	WB6BWZ	25,833	A	K9WIS	7,920	A	KB0YH	40,194	A	N7IR	44,370	A
N2JNZ	10,335	A	KQ4YY	19,998	A	KT8K	6,552	A	WV0WB	25,086	A	WO7T	20,178	A

and Dan both pounded their old records silly, bagging 135 and 134 multipliers, respectively. Both stations are located well away from the traditional “sweet spots”—could it be that operator skill also has something to do with it?

**40 meters:** As noted in the “Exceptional Efforts” section, the SO-40 Top Ten leapt from coast to coast as Bill, K4XS, ran the table from the WCF section, followed by Jim, N6IG, from SV, and back to Bob, WX4G, in SFL. K4XS and N6IG both set new records for their call districts on 40 meters, an inkling of what’s to come in future years. SO-40 log entries were up and I expect that trend to accelerate next year. All three of the top finishers either logged or flirted with a DXCC’s worth of multipliers.

**80 meters and 160 meters:** It was a little surprising that 80 meter scores didn’t take off this year, with what should have been better band conditions. As it was, Joe, AA1BU, pushed last year’s total up a tad to 122 kpoints, 459 QSOs (29 fewer than last year), and a whopping 89 multipliers (6 more than last year) from WMA. Joe was followed by W4SVO in the SFL section. Two brave souls entered SO-80 running QRP (N8VW in OH) and LP (K2HT in MO)—way to scratch, fellas!

Last year’s number two finisher in SO-80, Ted, KT1V, decided to punch the “1.8” button this year and led the pack in SO-160. He was hotly pursued by Leo, AA4MM, and Stan, KK4SI, both down in NFL. 160 Phone is tough in the best of years and we’re still a year away from the best conditions.

### Multi-Operator Overview

What did I say last year? Something about team operating becoming more popu-

lar due to demographics (a kinder, gentler way of saying that we like to sleep), conditions, and better station design options. Well, it didn’t play out that way in 2004 as multi-op entries dropped from 110 back to 84. The relative percentages of MM vs M2 vs MS did not change, however.

### Multi-Single

K1IR’s crew can be proud of themselves this year with a FB score from EMA, more than one-third higher than 2nd place finisher VE3RM. Third-place went to K0DU out in CO, the most westerly of any MS Top Ten score.

### Multi-Two

This category turned into a slugfest between the two fine stations of Paul, K4JA, in VA and Sig, N3RS, a few miles north in EPA. Both were just a little off last year’s pace. W4RM, another VA station, came in 3rd just ahead of NK7U’s OR crew, moving up a place from last year. In fact, both West Coast entries in the Top Ten are from OR as Brad, K7ZSD’s teams debuts in the box. VE1JF was another welcome presence for the MAR multiplier in eighth place.

### Multi-Multi

The usual suspects led the way in the Clash of the Titans category, with K3LR’s crack team successfully shoveling their way to the #1 position just miles from the Ohio border in WPA over KC1XX in NH and W3LPL in MDC. Not nearly as close as last year, ’LR was about 10 percent better than ’XX and you can be sure Matt and Frank will be gearing up to take back the walnut in 2005.

K9NS in 4th place from IL was closer than ever to their East Coast rivals. A win

from the Land of Lincoln is not out of the question if the conditions are right, so watch your tails! W0AIH cracked the Top Ten from WI in ninth place and the remaining spots were all from the Atlantic seaboard or New England.

W1AW made an appearance in the MM category with Bob Heil, K9EID, and Joe Walsh, WB6ACU, and a number of ARRL staffers sharing a good time. No word on who had to cook the post-contest dinner in Newington!

### Affiliated Club Competition

You can really tell that the club contest chairs were working overtime this year. We had a new winner in every category.

At the top of the Unlimited list, Frankford Radio Club and Yankee Clipper Contest Club traded places from last year with an even closer finish. The 164 FRC scores held off the challenge from 231 YCCC entries by a whisker and take the gavel—only 1.9 percent separates these two vigorous, motivated clubs! Another club—Contest Club Ontario—made the leap to Unlimited from the Medium ranks after placing 3rd in the 2003 Medium category.

In the Medium category, what turmoil! The North Coast Contesters really turned it on this year and zoomed from 10th place to a gavel-grabbing 1st with a 45 percent margin and five fewer scores than the 2nd place Hudson Valley Contesters. Woof! Pretty convincing smackdown, NCC! The North Texas Contest Club also bulked up by 50 percent and leapfrogged to 4th place with the Tennessee Contest Group in 3rd.

More turnover awaits you in the Local category as the top four spots are all occupied by new names and the gavel was

## Sponsored Plaques

Category	Winner	Sponsor
W/VE High Power Phone	VY2ZM	Frankford Radio Club
W/VE Low Power Phone	N5AW	Jeffrey Briggs, K1ZM
W/VE Single Operator Assisted Phone	W2RE	Pete Carter, K3VW Memorial
W/VE Multioperator Single Transmitter Phone	K11R	Steve Adams, K4RF
W/VE Multioperator Unlimited Phone	K3LR	Western New York DX Association, W2DXA
W/VE 1.8 MHz Phone	KT1V	Butch Greve, W9EWC Memorial
W/VE 3.5 MHz Phone	AA1BU	K1ZM Communications, Inc
W/VE 14 MHz Phone	VE6WQ (@VE6JY)	William F. Beyer Jr, N2WB
World Single Operator Phone High Power	8P1A (W2SC, op)	North Jersey DX Association
World Single Operator Phone Low Power	WP3R (K9PG, op)	Jerry Rosalius, WB9Z
World Single Operator Phone QRP	HD8A (HC1HC, op)	Southern Arizona DX Association
World Single Operator Assisted Phone	KH7X (KH6ND @KH6YY)	ARRL Contest Branch
World Multioperator Single Transmitter Phone	VP5B	Carl Cook, A16V/P49V
World Multioperator Two Transmitters Phone	PJ2T	W6NL and K6BL
World Multioperator Unlimited Phone	VQ5A	Stanley Cohen, W8QDQ
World 1.8 MHz Phone	CU2CE	Fred Race, W8FR, in Memory of ZL2BT
World 3.5 Mhz Phone	GI0KOW	Northern Illinois DX Association
World 14 MHz Phone	ZF2AH	Don Wallace, W6AM, Memorial Award
World 21 MHz Phone	PS2T (PY5EG, op)	Long Island DX Association
World 28 MHz Phone	LT1F (LU1FAM, op)	North Shenandoah DX Association NS4DX
Asia Single Operator Phone High Power	JH4UYB	Tim Coad, NU6S
Asia Multioperator Single Transmitter Phone	J1ZJJS	Yankee Clipper Contest Club
Europe Single Operator Phone High Power	OK1RI	Jerry Griffin, K6MD/Y19MD
Europe Multioperator Unlimited Phone	9A1A	Operators at K1TTT
North America Multioperator Single Transmitter Phone	VP5B	Nick Lash, K9KLR
Oceania Single Operator High Power Phone	VK4LUC	W7EW in honor of W7BX
Oceania Multioperator Single Transmitter Phone	DU9DWW	AH9B/V73B, D. Craig Boyer
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	N9DT	Society of Midwest Contesters
Central Division Single Operator Low Power All Band Phone	N4TZ	Society of Midwest Contesters
Rocky Mountain Division Single Operator Low Power Phone	W5GZ	Grand Mesa Contesters
Japan Single Operator Low Power Phone	JM1LPN	Western Washington DX Club
Canada Single Operator Low Power Phone	VE5SF	Contest Club Ontario
World Single Operator Combined Score—High Power	8R1K (EA4BQ/OH0XX, op)	Daniel K. Robbins—KL7Y
World Single Operator Combined Score—Low Power	WP3R (K9PG, op)	Robbins Memorial
World Multioperator Unlimited Combined	9A1A	C. Sharp, K5DX Memorial by the Texas DX Society
W/VE Single Operator High Power Combined Score	K3CR (LZ4AX, op)	W2PV Memorial—Schenectady ARA
W/VE Single Operator Low Power Combined Score	KS1J	National Contest Journal
Rocky Mountain Division Single Operator Combined	N6ZZ	Rochester DX Association K2FR
		Memorial Plaque
		Albuquerque DX Association

Plaques are available for most Overall Continental, National and ARRL Divisional winners for most categories. Unsponsored plaques may be purchased for \$67 (includes shipping) by contacting the ARRL Contest Branch at 860-594-0295, or [contests@arrl.org](mailto:contests@arrl.org).

## Affiliated Club Competition

Unlimited Category	Score	Entries	Local Category	Score	Entries
Frankford Radio Club	261,812,385	164	Wireless Association of South Hills	2,047,458	5
Yankee Clipper Contest Club	256,750,851	231	Medina 2 Meter Group	1,180,056	3
Potomac Valley Radio Club	162,647,469	138	Northern Rockies DX Association	803,292	5
Society of Midwest Contesters	58,312,050	80	Stafford (VA) ARA	795,414	3
Northern California Contest Club	46,076,880	86	Sterling Park ARC	728,436	4
Minnesota Wireless Assn	35,367,486	77	Northern Ohio DX Assn	699,003	4
Florida Contest Group	32,880,186	63	American Red Cross Emergency	588,396	4
Contest Club Ontario	32,864,382	54	Northern New York Contest Club	388,209	5
Medium Category			Cherryland ARC	357,246	4
North Coast Contesters	48,486,720	14	Old Barney ARC	177,894	4
Hudson Valley Contesters and DXers	33,654,663	31	Redmont Top Key Contest Club	92,004	3
Tennessee Contest Group	29,025,750	45			
North Texas Contest Club	25,869,462	17			
Willamette Valley DX Club	21,244,347	26			
Mad River Radio Club	19,675,260	26			
South East Contest Club	18,824,274	29			
Central Texas DX and Contest	18,768,789	19			
Southern California Contest Club	17,401,272	40			
Rochester (NY) DX Assn	12,290,160	13			
Western Wireless Contest Club	10,022,868	3			
Southwest Ohio DX Assn	9,303,747	4			
Western Washington DX Club	7,818,324	20			
Central Arizona DX Assn	7,107,666	33			
Grand Mesa Contesters of Colorado	6,886,970	23			
Carolina DX Assn	6,569,034	31			
East Coast Canada Contest Club	4,048,692	3			
Northern Illinois DX Assn	3,794,070	15			
Kansas City DX Club	3,630,825	6			
Kentucky Contest Group	3,623,973	13			
Order of Boiled Owls of New York	3,116,043	11			
Empire Contest Club	2,771,055	3			
Western Illinois ARC	2,583,666	13			
Western New York DX Assn	2,561,172	6			
Spokane DX Association	2,455,509	7			
Salt City DX Assn	2,406,816	8			
BC DX Club	2,185,764	6			
Oklahoma DX Assn	1,593,396	8			
North Alabama DX Club	1,150,842	4			
Bergen ARA	1,065,198	13			
West Park Radiops	813,093	10			
Northern Arizona DX Assn	796,542	5			
Mother Lode DX/Contest Club	762,468	5			
Southern California DX Club	728,841	7			
Texas DX Society	699,516	3			
Eastern Iowa DX Assn	576,450	7			
South Jersey Radio Assn	359,808	6			
Loudoun ARG	346,527	7			
Green River Valley ARS	259,980	4			
Burlington County Radio Club	222,570	3			

taken by last year's 5th place finisher, Wireless Association of South Hills. Second and 3rd places are occupied by the Medina 2 Meter Group and the Northern Rockies DX Association, respectively.

## DX

As a "targeted" contest, ARRL DX gives the DX stations a chance to "set and forget" the rotator azimuth and focus on the US and VE pileups. This gives everyone a chance to take advantage of odd or short openings to North America that are foregone in the "everybody works everybody" format.

**DX QRP:** As you might imagine, the DX QRPers tended to do a little better than their NA compadres due to that 20 dB a DX prefix tends to impart. Some do a whole lot better. The top three finishers—HD8A (by HC1HC), TI5N (by W8QZA), and HI3TEJ—all broke a million points and would have qualified for the LP DX Top Ten. In the end, Alfredo rode 20 and 15 meters to the top this year from the Galapagos, overcoming the proximity advantage enjoyed by Bill, W8QZA, at Keko's fine station in Costa Rica. Given more difficult east-west propagation, the first EU appearance in the Top Ten comes at the sixth spot, where F5BEG delivered a nice score from the Western edge of the continent again in 2004. JA2MWV just missed the Top Ten boxes with the highest Asian QRP total.

**DX Low Power:** The top four stations in the SOAB-LP category were all from NA this year. In a very close race, Paul, K9PG, at WP3R claimed the #1 spot over Bob, W5AJ, at TI5A and the pair would have claimed 3rd and 5th in the world, regardless of category! Dave, J88DR, moved up a notch from 4th last year to claim the bronze, followed by Kurt, VP9/W6PH, in the mid-Atlantic. The remainder of the Top Ten are all new entries this year—congratulations! HK3JJH is the top SA station in LP this year. EA7RM and EA3CI represent Europe and round out the Top Ten. FK8HN is the top OC entry at #18 and JM1LPN leads the Asian contingent at #22. EA8/DJ1OJ and ZS4BS were the only Africans in this category. LP is the most popular category for DX stations, as well as the US/VE crowd, with 251 entries.

**DX High Power:** Six out of the Top Ten HP operators were on an expedition this year and three changed continents to do so. The Top Ten were also fairly well distributed: 3 from NA, 3 from SA, 2 from EU, and 2 from AF. With the exception of the two EU entries (from OK and DL), all of the Top Ten were on or within the warm water "Atlantic Rim."

Tom, W2SC, really dominated the HP category from 8P1A this year with a solid multi-Megapoint victory that just missed record territory. John, W6LD, is new to the Top Ten this year, placing second from P4ØL. John was followed by the two Africans, Jim, W7EJ, as CN2R moved up from the LP category and Martti, EA8BH, in 3rd and 4th, respectively. Jiri, OK1RI, led all European HP entries, a long way from the sunny beaches in the Czech Republic—see the European analysis in the Divisional write-up sidebar on the Web for more about this score.

Other noteworthy scores in HP include KL1V's #13 finish from chilly Alaska, JH4UYB's top Asian score, and VK4UC leading the pack from Oceania.

**DX Assisted:** I already mentioned that Mike, KH6ND, walloped the old record and all competition using the call KH6X from KH7YY (got all that?). Quite an effort by Mike, don't you agree? I hope he's not getting blase about his #1 streak, because he's fun to listen to on the air. If you're wondering how to improve your technique, listening to KH6ND run a pileup is a great place to start. This was the only category in which the winner was from Oceania.

In 2nd place, with an amazing LP effort, Barney, DK8ZB, operated as KP4KE and was the only LP effort in the Assisted Top Ten. Indeed, the next LP score is in 13th place! LU1NDC and PY2MNL at ZX2B dueled to 3rd and 4th places from SA only 200 QSOs and 6 multipliers apart. DL1IAO led the way from Europe.

## DX Single-Band

Single-band entries were up a bit, reversing last year's trend, 396 to 383. This is still down from 2002's 428, but is a sign that activity is holding steady, even with shorter openings to NA on the higher bands. The most popular band was 15 meters, just as in the US and VE, with 171 logs, followed by 20 meters with 112. 40 meters showed the biggest increase from last year's 16, tripling to 48 entries.

**10 meters:** Three familiar calls grace the 10 meter Top Ten, LT1F (op LU1FAM), ZY5G (op PP5WG), and PX2W (op PY2YU). Taking advantage of the almost exclusively north-south propagation on 10, these guys ran like the wind when the band was open, racking up some big QSO totals of 2479, 2291, and 1792 respectively. NA dented the listings in the form of HP3XBS, on the heels of PX2W, but just a little bit too far north this year. WP4EDD, LW3DX and PJ4/KG9QX submitted the top LP scores on 10

meters this year. KG9QX ran 5 W into a Hamstick on his rental car. FB work! EU and AS were under-represented and AF was entirely absent this year.

**15 meters:** South America prevailed once again, but this time the competition was from Europe. Brazil was both 1st and 2nd on 15, with PY5EG winning from PS2T and PY2EMC right behind him from PT5A. PY5EG is obviously getting the bands warmed up for WRTC-2006! Both scores had identical multiplier totals (62), but Oms must have talked a little faster with 71 more QSOs. The UK was home to the next two entries by GIØNWG and GW4BLE to lead the way in Europe. A real dogfight followed between LPØH at #5 and CS6T (op CT1ILT) at #6, only 16 QSOs behind. The only NA entry in the Top Ten was CO8ZZ from Cuba. EA8LS was tops in Africa, JA7NVF in Asia, and VK3GK in Oceania. XE1KK was the QRP winner and CO8LY the LP titlist.

**20 meters:** Where did all those 10 meter stations from last year go? Many of them wound up on the Queen of the Bands, 20 meters where entries increased by 50 percent to 112. As mentioned earlier, ZF2AH's 77 extra QSOs more than made up for the single multiplier advantage of P4ØA, operated by KK9A, to eke out the narrow victory. Europe was represented by SO2R (the station, not the category) in 3rd place with twenty-seven hundred QSOs from Poland. The Top Ten finishers bounced between SA, NA and EU in roughly equal proportions, so the band was open widely this year. XE1L and PY2NY finished one-two running LP.

**40 meters:** Coming to life in a hurry, but still a tough place to do business, 40 meter phone was the domain of Europe. Operating split and sharing the band with multi-megawatt SWBC stations is no picnic, but F6CTT came out on top, pulling away from the pack. OE6Z (op OE6MBG) and S53M (op S55OO) battled to 2nd and 3rd place from the picturesque mountains of Central Europe. The lone NA occupant of the Top Ten was Rich, KL7RA, in his final operation from Fairbanks. Oceania appears in the #10 spot as VK2KPP. Low power scorers were led by CT3IA and CO2JD.

**80 meters and 160 meters:** You might think that proximity to NA is pretty much required for a top score on these tough two bands. You would be wrong. GIØKOW was top dog on 80 meters with a great effort, making nearly a thousand QSOs. CO8KD came in second, running LP, and YV4BU 3rd, but seven of the Top Ten are from Europe. All of the 160 meter

entries are European, led by CU2CE from the Azores, the westernmost point of land considered European. RN6BN nearly doubled his QSO total of last year to 40 from the far eastern edge of Europe.

## DX Multioperator

**Multi-Single:** The first five finishers in this category were travelers, on a contesting vacation to the Caribbean or other warm water ports of call. VP5B prevailed (just barely) over PJ4B, trading propagation advantages on the low bands (VP5B) versus 10 meters (PJ4G) in a hotly contested victory. Dave, W6NL, and Barb, K6NL, Leeson traded their California mountaintop for one on the equator to place 3rd as HC8L on San Cristobal Island. IR4X was the top European entry and 6Y8Z cracked the Top Ten with low power to claim the 8th spot. African entry EA8ZS was 9th.

**Multi-Two and Multi-Multi:** The two-transmitter category heated up dramatically with FY5KE challenging PJ2T for bragging rights. They came close, but PJ2T prevailed, very nearly setting a new SA record in the bargain.

Multi-Multi remains a difficult challenge for traveling teams and so remains under-represented in the DX listings. The VQ5A team re-activated the old Kenyan colonial prefix and made some serious noise from the Turks and Caicos. V47KP was a welcome new entry to the MM category, finishing second, but equaling the VQ5A multiplier total—now for some QSOs! 9A1A and LZ9W club stations kept the bands hot from Europe and the JA3YBK team from Asia.

## Concluding Remarks

*"Happiness is not a state to arrive at, but a manner of traveling."*—Margaret Lee Runbeck

I am always amazed at the breadth and variety of the submitted scores from all corners of this big round ball we play with called Earth. Even though the solar cycle is waning, you all found new ways to have fun, new bands that were open, and new challenges to overcome. That bodes well for contesting.

I'm sure that every contester can think of at least one ham—new or old—who would enjoy being invited over for a multi-op or being "given the keys" for a ~~week~~ end. Don't complain about new blood if you haven't given any!

Until next year, I'll be spinning the globe, wondering where my signal will land and who will answer my "CQ Contest"!

## 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.

Phone	Score	QSOs	Multipliers	Power	Band	Phone	Score	QSOs	Multipliers	Power	Band				
<b>WVE</b>						KJ1J	189	7	9	B	N2QOR	15,120	84	60	B
<b>Single Operator</b>						K1BD	364,338	519	234	C	KC2EVL	6,600	55	40	B
<b>1</b>						KT1V	7,560	60	42	C	N2GT	1,380	23	20	B
<b>Connecticut</b>						W1GOU	29,568	154	64	B	N2LT	2,053,548	1967	348	C
											W2OO	470,988	588	267	C
						<b>Rhode Island</b>					K2DM	379,911	553	229	C
N1TM	201,285	355	189	A		KS1J	766,800	900	284	B	W2UDT	235,440	436	180	C
W1JQ	704,472	788	298	B		KB1LN	27,945	115	81	B	WA2BKN	48,654	159	102	C
W1CTN	613,674	662	309	B		KD1NW	5,304	52	34	B	N2VM	27,600	115	80	C
W1AIR	57,672	178	108	B		W1YRC	364,110	530	229	C	N2GM	100,188	363	92	B
N7NG	54,432	162	112	B		AJ1M	299,880	420	238	C	KX2S	26,838	142	63	B
W3SM	51,198	161	106	B		K1IG	83,916	252	111	C	W2KV	18,189	129	47	C
W1AAD	37,380	140	89	B		KD1IA	1,188	22	18	C	N2MH	456	19	8	A
WB1GCM	29,700	132	75	B											
KA1VMG	18,957	89	71	B		<b>Vermont</b>					<b>Northern New York</b>				
W1DMM	189	9	7	B		N1UR	965,358	1062	303	B	N2JNZ	10,335	65	53	A
KQ2M	1,853,145	1961	315	C		KA1LDS	35,640	135	88	B	WE2A	242,946	409	198	B
W1WEF	247,632	536	154	C		NA1VT	2,523	29	29	B	W3TB	170,502	362	157	B
K1BV	178,080	371	160	C		KE1FO	882,378	987	298	C	WA1FXK	161,838	333	162	B
NN1N	149,184	296	168	C		KK1L	120,663	327	123	C	WB2KLD	138,252	281	164	C
N4XR	137,088	272	168	C		W1ZK	21,168	112	63	C	N2KX	32,376	152	71	B
N1JW	118,320	272	145	C											
KE1LI	40,716	156	87	C		<b>Western Massachusetts</b>					<b>Southern New Jersey</b>				
AB1BW	9,933	77	43	C		N1PGA	692,124	842	274	B	N2CY	214,635	349	205	B
W1CU	3,885	37	35	C		N1RL	7,260	55	44	B	KV2M	180,930	370	163	B
K1KI	13,833	87	53	C	40	KB1GHC	2,001	29	23	B	KC2JIT	45,900	153	100	B
K1ZZ	12,672	88	48	C	40	K5ZD	1,120,905	1083	345	C	K2UR	22,704	88	86	B
WA1JMP	179,865	571	105	C	15	W1RZF	622,503	723	287	C	KA2YKN	20,952	97	72	B
W1NK	8,100	60	45	C	15	KX1X	538,704	688	261	C	N2WRD	19,800	110	60	B
AA1ZT	9,024	94	32	B	10	W1KT	503,304	626	268	C	KA2BXH	2,835	35	27	B
						KV1W	266,220	435	204	C	N2MR	472,017	637	247	C
											NQ3N	278,928	447	208	C
<b>Eastern Massachusetts</b>						<b>2</b>					N2RM	214,947	419	171	C
N1SV	823,032	852	322	B		<b>Eastern New York</b>					K2RET	115,509	277	139	C
KG1E	694,035	795	291	B		KM2O	167,118	322	173	B	KC2KGZ	96,585	235	137	C
K1HT	482,241	667	241	B		WA2MCR	131,040	260	168	B	K2QPN	73,062	198	123	C
W1TE	408,240	540	252	B		N2MTG	107,310	245	146	B	N2RF	14,241	101	47	C
N3KCJ	279,000	465	200	B		NA2NA	75,762	207	122	B	W2MF	5,301	57	31	B
WG1Z	192,510	345	186	B		W2UV	75,258	222	113	B	N2OO	49,434	214	77	C
N1HTS	177,210	330	179	B		K2PH	60,348	188	107	B	K2BQW	46,842	211	74	B
N1DC	164,340	330	166	B		AE2J	40,848	148	92	B	N2NF	5,940	55	36	B
N1DS	147,015	297	165	B		N2BZP	23,226	98	79	B					
KA1EKR	68,373	213	107	B		W2LK	6,192	48	43	B	<b>Western New York</b>				
K1VU	63,558	198	107	B		W2ENY	672	16	14	B	WB7OCV	17,136	84	68	A
K1PNQ	61,047	171	119	B		NA2M	115,773	259	149	C	WB2DVU	249,546	398	209	B
K1RB	50,511	149	113	B		N2SQW	114,912	252	152	C	AA2YG	109,755	271	135	B
KB1FRK	23,532	106	74	B		WF2B	53,106	167	106	C	N2CU	99,441	261	127	B
K1WCC	22,791	107	71	B		W1NXB	33,615	135	83	C	N2CK	87,840	244	120	B
KB1HDO	18,216	92	66	B		KD2NE	31,734	129	82	C	K2CVG	59,670	195	102	B
N1VI	7,548	68	37	B		N3EMF	16,536	104	53	C	N2OPW	53,475	155	115	B
KY1B	918	18	17	B		WE2F	458,832	1264	121	C	AA2YV	24,888	122	68	B
K3NA	2,914,128	2478	392	C							KF2VX	21,168	98	72	B
K5MA	1,161,216	1344	288	C		<b>NYC-Long Island</b>					WA2YSJ	14,652	74	66	B
N1RR	1,105,200	1200	307	C		WB2ZTH	193,200	322	200	B	WB2SXY	6,678	53	42	B
N1DD	1,071,927	1073	333	C		N2MUN	164,934	374	147	B	K2NV	180,009	339	177	C
K7UQT (W7OT, op)	357,504	532	224	C		K2TV	55,998	183	102	B	WR2V	149,265	321	155	C
W1FM	213,756	379	188	C		K2BRG	43,632	144	101	B	W2FUI	113,016	277	136	C
N1FR	32,706	138	79	C		K2SGH	30,780	108	95	B	W2VO	5,586	49	38	C
W1MMM	31,248	124	84	C		W3EH	20,196	99	68	B	WF2W	40,044	188	71	C
W1DO	27,027	99	91	C		WA2RXS	18,300	100	61	B	W1TY	1,875	25	25	B
W1AF	6,321	49	43	C		W2NSF	16,740	90	62	B	NA2X	36,354	166	73	C
AA1BU	122,553	459	89	C	80	N2LEB	3,600	40	30	B	N5ILN	12	2	2	B
W1CRK	16,068	103	52	B	15	K1MAE	2,496	32	26	B	K2CS	1,620	30	18	B
						NA2P	530,889	653	271	C	KC2HTP	60	5	4	B
						N2UN	184,140	396	155	C					
<b>Maine</b>						K2RED	25,152	131	64	C	<b>3</b>				
W1CEK	2,430	30	27	A		WA2RB	22,152	104	71	C	<b>Delaware</b>				
N1LW	209,718	382	183	B		K2LE	2,880	30	32	C	K3HRO (N9GG, op)	26,565	115	77	B
KA1IS	109,482	257	142	B		N2GC	15,300	100	51	C	AA1K	3,356,298	2783	402	C
K1SWG	42,336	147	96	B		WB2AMU	5,832	54	36	B	W3GNQ	239,514	418	191	C
W1AO	2,098,629	1993	351	C	40	WA2OVG	18,618	107	58	B	20				
AC1O	15,582	98	53	C	40	AK2P (KC2LLM, op)	225,303	689	109	B	15				
KD1OG	4,128	43	32	B	20	K2MFY	111,162	382	97	B	15				
NY1S	70,374	317	74	B	15	KS2G	24,534	141	58	B	15				
<b>New Hampshire</b>						<b>Northern New Jersey</b>									
KA1LMR	424,032	631	224	A		W2JEK	6,450	50	43	A	<b>Eastern Pennsylvania</b>				
WB1EDI	311,808	448	232	B		K2JT	4,620	44	35	A	W3MF	572,964	718	266	B
W1DAD	250,884	414	202	B		K2WA	277,965	435	213	B	K4JLD	361,368	478	252	B
WS1A	162,945	355	153	B		K2YLH	133,560	280	159	B	W3BEN	54,282	166	109	B
W6FC	160,320	320	167	B		K2YSY	100,695	245	137	B	NT3J	34,977	131	89	B
KA2KON	38,400	160	80	B		K2ZB	97,902	222	147	B	KE3TC	31,833	131	81	B
W1LZ	36,240	151	80	B		NE7L	60,333	169	119	B	K3NL	14,904	92	54	B
K1FOO	27,300	100	91	B		AE2JL	58,401	189	103	B	K1DS	11,925	75	53	B
N1OZF	11,760	70	56	B		W2WJO	49,266	161	102	B	K3WGR	9,159	71	43	B
AE1T	7,482	58	43	B		WA2LXE	19,695	101	65	B	N3TLQ	4,284	42	34	B
KB1T	5,547	43	43	B		W2MSA	16,368	88	62	B	WB2EZL	720	16	15	B
AE1D	5,217	47	37	B		WB2IDV	15,120								



WD5JNC	25,920	108	80	C		N6AA	1,047,360	1091	320	C	WM7A	46,320	193	80	B		
W8FR	19,662	113	58	C	40	W06M	1,782	27	22	C	KG9JP	19,110	98	65	B		
<b>New Mexico</b>																	
W5GZ	239,514	418	191	B		AD6PC	147	7	7	C	W7YS	16,170	98	55	B		
KA5BAT	162,750	350	155	B		K6SE	330	11	10	C	160	W3ZZX	15,369	109	47	B	
K5PAX	90	5	6	B		W6AFA	60,702	302	67	C	15	KD7OED	2,268	27	28	B	
N6ZZ	204,336	387	176	C		NK6A	22,644	148	51	B	15	W7HX	2,205	35	21	B	
W5IL	167,310	330	169	C		KG6ERO	5,544	66	28	B	10	W8TK	765	17	15	B	
W5JRP	17,955	105	57	B	20	<b>Orange</b>											
<b>North Texas</b>																	
WA8ZBT	96,159	241	133	A		KE6CC	17,934	98	61	A		K8LJK	546	14	13	B	
WD5K	508,254	667	254	B		W6ZL	67,680	235	96	B		K5RR	917,448	1016	301	C	
WK5K	52,974	162	109	B		N6WK	47,595	167	95	B		KC7V	384,540	580	221	C	
N1QXV	15,738	86	61	B		AC6TK	24,888	122	68	B		K6TIM/7	331,344	472	234	C	
W5ETM	9,024	64	47	B		WB6JVP	18,444	106	58	B		K8BN	156,570	307	170	C	
W5RMH	5,781	47	41	B		K6LG	6,837	53	43	B		W7ZMD	125,280	288	145	C	
KC5TA	2,940	35	28	B		WA6GFR	1,632	32	17	B		W7KW (KJØD, op)	25,758	162	53	C	
W5DBK	1,518	23	22	B		W6RTW	828	23	12	B		K7MY	22,620	116	65	C	
N5JR	187,425	357	175	C		K6YES	29,040	121	80	C		KY7M	15,756	101	52	C	
K5GH	34,020	140	81	C	40	W8KIE	25,200	112	75	C		K7UAZ (W4ES, op)	7,371	63	39	C	
W5FO	86,490	310	93	B	20	WA6WPG	324	18	6	B	40	N7DD	695,196	1884	123	C	15
WØVX	10,413	89	39	B	15	WA6NOL	270	10	9	B	20	W7ZR	132,966	498	89	B	15
NØRQ	1,380	23	20	B	15	N6HC	7,029	71	33	B	10	NJ7I	75,330	310	81	C	15
K5RX	36,192	208	58	C	10	<b>Santa Barbara</b>											
<b>Oklahoma</b>																	
W5PUF	228,420	423	180	B		N6AZR	44,376	172	86	A		W7AUY	3,654	42	29	C	15
K5LAD	121,716	276	147	B		WA6FGV	79,695	231	115	B		W7UPF	13,674	106	43	B	10
W5UW	96,696	237	136	B		K6SGH	30,690	165	62	B		<b>Eastern Washington</b>					
W5TM	5,412	44	41	B		KD6POF	22,563	109	69	B		K7MM	130,476	332	131	A	
KD5TXL	4,182	41	34	B		W6RJQ	19,392	101	64	B		N7BES	24,198	109	74	B	
W5SSG	2,697	31	29	B		W6UM	390,126	514	253	C		K7AWB	1,326	26	17	B	
N5DY	21,960	120	61	C		WA5VGI	77,880	236	110	C		WA7LT	1,171,500	1420	275	C	
WA5YNE	1,875	25	25	C		AE6NY	189	9	7	C		WX7P	290,601	687	141	C	
NEØP	5,301	57	31	B	10	<b>Santa Clara Valley</b>											
<b>South Texas</b>																	
N5AW	1,029,231	961	357	B		N6NF	574,560	798	240	B		W6AEA	199,350	443	150	C	
KE5LQ	323,637	463	233	B		KO6LU	16,200	90	60	B		KA7LPO	40,338	162	83	C	
WA5IYX	141,336	312	151	B		W6ZZZ	12	2	2	B		K7EKM	26,904	118	76	C	
K5WAF	98,880	206	160	B		N6FM	43,362	146	99	C		<b>Idaho</b>					
AB5XZ	75,582	221	114	B		W6XJ	35,343	119	99	C		KW7N	54,780	166	110	B	
KA5EYH	56,295	139	135	B		K6GT	5,376	64	28	C		N7VIV	54,300	181	100	B	
KB5ZFO	46,092	167	92	B		K6OY	9,198	73	42	C	80	N7VJ	34,611	139	83	B	
W6TRO	19,296	96	67	B		K6HNZ	176,715	595	99	C	20	KØT	20,412	126	54	C	40
WX5I	12,528	87	48	B		NE6Z	62,220	340	61	B	15	KD7RVK	462	14	11	B	20
N5DTT	6,552	52	42	B		AE9F	16,335	121	45	B	15	<b>Montana</b>					
K5EJL/M	4,995	45	37	B		<b>San Diego</b>											
K5WW	168	8	7	B		WN6K	341,052	586	194	B		KL7FDQ/W7	168	7	8	A	
K5XR (W5ASP, op)	302,679	507	199	C		W6EUF	153,594	318	161	B		KE7NO	209,208	379	184	B	
W5PR	16,464	98	56	C	80	W6KY	26,625	125	71	B		WBØSMS	183,915	335	183	B	
WB5JID	14,520	88	55	C	20	AA6EE	19,902	107	62	B		K7SAM	93,000	248	125	B	
WA8LEQ	960	20	16	C	20	W6MVW	3,780	42	30	B		KD7IIC	32,370	166	65	B	
KFØIQ/5	270	10	9	B	20	K6NA	233,064	468	166	C		K7BG	378	14	9	B	
N5TW (KC5YKX, op)	166,200	554	100	C	15	K6NT	42,408	152	93	C		K7ABV	432,264	664	217	C	
<b>West Texas</b>																	
KU5S	210,195	405	173	B		N6TI	2,451	43	19	C	10	NB7V	100,215	255	131	C	
N5DO	143,622	474	101	B	15	<b>San Francisco</b>											
NZ5M	189	9	7	B	15	N6ZFO	101,655	251	135	B		W7WK	84,987	213	133	C	
<b>6</b>																	
<b>East Bay</b>																	
KG6NDO	63,648	208	102	B		K6OWL	17,199	117	49	B		KC7UP	78,624	234	112	C	
KK6WT	19,320	115	56	B		K6UUM	8,610	70	41	B		KS7T	14,442	83	58	C	
AK6DV	14,832	103	48	B		K6UUV	53,856	187	96	C		<b>Nevada</b>					
K6BIR	10,260	76	45	B		W6XU	16,200	90	60	C		K7ACZ	98,490	245	134	B	
W6CUS (K6SRZ, op)	107,388	314	114	C		<b>San Joaquin Valley</b>											
K6JAT	102,960	264	130	C		K6CSL	9,240	70	44	B		WA7CWM	337,836	599	188	C	
N6AJR	45,900	180	85	C		KI6PG	3,690	41	30	B		K7AEK	22,875	125	61	C	
KE6QR	22,572	114	66	C		N6IV	1,449	23	21	B		WB7QBO	21,321	103	69	C	
K6OR	5,550	50	37	C	80	WR6M	510,138	846	201	C		K7DS	10,800	72	50	C	
WA6O ( @N6RO)	187,488	651	96	C	20	N6NZ	284,745	463	205	C		W7EB	192,276	654	98	C	15
WB6RNS	9,657	87	37	B	15	K6YV	50,052	194	86	C		W7PW	0	-1	0	B	15
KQ6TW	1,008	24	14	B	10	N6HK	24,585	149	55	C	15	<b>Oregon</b>					
<b>Los Angeles</b>																	
W6AQ	111,321	279	133	A		N6EE	12,852	102	42	C	10	W7Yaq	400,020	590	226	B	
W6RCL	7,128	66	36	A		<b>Sacramento Valley</b>											
N6RV	352,152	584	201	B		KJ6RA	72,168	194	124	B		AA7FK	49,068	174	94	B	
N6QQ	131,040	260	168	B		K6ST	50,985	165	103	B		W7YVK	36,105	145	83	B	
KB6ATT	92,463	259	119	B		AD6VV	21,414	166	43	B		N7XB	10,800	90	40	B	
NT6AA	72,900	225	108	B		W6RFF	11,100	100	37	B		N7VS	7,965	59	45	B	
KU6T	63,210	215	98	B		N6RZR	7,011	57	41	B		KX7YT	6,678	53	42	B	
WB2KXC	61,824	184	112	B		W6QEU	465,690	722	215	C		KC6MZY	5,760	48	40	B	
WB6NFO	8,514	86	33	B		WT6G	239,304	472	169	C		W7GG	1,866,240	1920	324	C	
W6JK	8,160	68	40	B		K6LRN	223,470	390	191	C		N6PZ	86,400	240	120	C	
N6VI	5,814	57	34	B		WA6ST	175,380	370	158	C		W7UG	85,470	259	110	C	
K6ZCL	351	13	9	B		WA2AGE	137,256	301	152	C		K7VIT	80,385	233	115	C	
<b>7</b>																	
<b>Arizona</b>																	
N7IR	44,370	174	85	A		N6IG	207,603	699	99	C	40	N7YB	50,826	197	86	C	
WO7T	20,178	118	57	A		K6FO	54,612	246	74	C	20	KE7G	11,832	68	58	C	
K8IA	672,360	862	260	B		K7XE	19,176	136	47	B	15	K7ZM	4,371	47	31	C	80
KW7V	144,420	290	166	B		W6RKC	3,450	50	23	C	10	AD7J (W7FP, op)	69,471	279	83	C	20
K7TR	71,868	212	113	B		<b>Utah</b>											
<b>Western Washington</b>																	
N7BK	297,564	548	181	B		W3CP	28,620	159	60	B	15	W7KB	70,560	210	112	B	
AA7PM	166,617	363	153	B		Utah						KF7IQ	83,460	214	130	C	
W7BJ	54,945	165	111	B		W7UT	194,205	605	107	C	15	W7UT	194,205	605	107	C	15
WJ7H	32,760	120	91	B		<b>Western Washington</b>											
W7GTO	15,792	94	56	B		N7BK	297,564	548	181	B		AA7PM	166,617	363	153	B	
K7SR	15,561	91	57	B		W7BJ	54,945	165	111	B		W7JB	54,945	165	111	B	
<b>From October 2004 QST © ARRL</b>																	

KJ7WN	14,124	107	44	B	N8VV	2,016	28	24	A	80	W9OP	694,032	761	304	C
K7UIR	5,184	48	36	B	K8DJC	44,622	201	74	C	40	K9BZ	518,817	689	251	C
N7UK	4,725	45	35	B	AD8C	38,400	160	80	C	40	W9JA	495,057	571	289	C
KC7WDL	1,806	43	14	B	W8IMF	969	19	17	C	40	KB9KEG	226,944	394	192	C
K7RL	2,710,950	2650	341	C	W8CZN	126,999	411	103	C	20	WW9R	69,264	208	111	C
N7RO	546,984	856	213	C	KE4OAR	147	7	7	B	20	KB9Q	33,264	126	88	C
WN7T	106,932	266	134	C	KA8SEP	288	12	8	B	10	KB9A	33,264	126	88	C
WG7X	28,188	116	81	C	<b>West Virginia</b>										
W7LKG	11,457	67	57	C	KC8FS	616,998	782	263	B		WA9IRV	1,575	25	21	C
W9PL	1,536	32	16	C	WA8WV	257,685	419	205	B		WI9H	2,940	35	28	C
W7WA	767,016	1908	134	C	W8WVM	25,872	112	77	B		W9GXR	19,665	115	57	C
VA7JC/W7	1,014	26	13	B	K8WV	18,711	99	63	B		K9CAN	61,992	252	82	C
<b>Wyoming</b>															
WY7LL	91,500	244	125	B	KE8NK	16,380	91	60	B		N9GBB	495	15	11	B
WG7Y	12,312	72	57	B	KN8J	15,252	82	62	B		WB9OQB	330	10	11	B
K7UWR	6,954	61	38	B	KZ8E	5,508	51	36	B		K9RO	132,912	426	104	B
KO7X	94,770	243	130	C	N8II	756,750	1009	250	C		KE9S	2,040	40	17	B
NE9Z	41,325	145	95	C	K2UOP	305,733	457	223	C		<b>0</b>				
WB4UIC	2,166	38	19	B	N4SEA	218,241	411	177	C		<b>Colorado</b>				
<b>8</b>															
KT8K	6,552	56	39	A	N4ZR	171,360	510	112	C		W0AH	267,036	476	187	A
KC8LTL	396	12	11	A	K3JT	6,498	57	38	C	40	KB0YH	40,194	154	87	A
N8CN	264,204	492	179	B	W8UMR	2,961	47	21	B	10	WW0WB	25,086	113	74	A
N8RY	186,384	353	176	B	<b>9</b>										
K8MJZ	114,168	284	134	B	<b>Illinois</b>						W0ETT	231,804	411	188	B
KB8TYJ	72,105	209	115	B	KD9MS	360,855	495	243	B		A10L	80,190	243	110	B
KE8FO	70,200	195	120	B	K9JE	320,742	519	206	B		KC0IGY	61,410	178	115	B
KC8EVC	54,180	172	105	B	WD9DZV	140,832	326	144	B		N2LWL	22,791	107	71	B
K8GVK	50,193	169	99	B	K9CY	122,766	259	158	B		N0IBT	19,110	98	65	B
NF8M	46,866	146	107	B	KD9AC	77,760	216	120	B		W0CBH	18,270	105	58	B
K8ESQ	46,698	181	86	B	K9OR	63,162	174	121	B		KC7QY	4,995	45	37	B
N8PUG	31,860	118	90	B	N9UPG	44,496	144	103	B		KI0GQ	2,325	31	25	B
N8XD/M	30,420	130	78	B	N9VOK	27,360	114	80	B		W0GG	893,700	993	300	C
W8SGZ	25,830	105	82	B	KB9CYL	25,536	112	76	B		N0VD	755,580	980	257	C
AB8ND	24,255	105	77	B	W9IL	25,461	123	69	B		W0ZP	165,600	345	160	C
KB8VZY	23,790	122	65	B	WA9PLT	23,004	108	71	B		K0GAS	9,345	89	35	C
N8NX	22,557	103	73	B	KB9RW	22,713	113	67	B		KE4RHU	6,216	56	37	C
W8FEM	20,493	99	69	B	AB9DO	13,806	78	59	B		AB0YM	3,150	35	30	C
W8MJ	1,008,228	1196	281	C	K9DXR	12,528	48	87	B		KV0Q	484,956	1418	114	C
K8GL	663,558	854	259	C	W89GKM	10,200	68	50	B		<b>Iowa</b>				
W8TWA	604,440	730	276	C	K9KM	9,900	66	50	B		AA0AI	270,276	446	202	B
W8UD	390,564	571	228	C	W9DY/M	7,482	58	43	B		KB0BUV	170,346	319	178	B
W8JY	324,096	512	211	C	N9DO	6,240	52	40	B		K0VM	98,088	244	134	B
K9TTT	191,484	324	197	C	KI9DX	6,120	51	40	B		AG0M	85,215	247	115	B
K8SAK	53,040	170	104	C	WB9OVV	5,661	51	37	B		WN0G	41,676	151	92	B
N8OL	2,871	33	29	C	N0ICV	3,663	37	33	B		W0PPF	67,320	204	110	C
W8JWN	33,930	145	78	C	W9LYA	3,330	37	30	B		K0IO	972	18	18	C
K8AO	24,750	125	66	C	N9NA	2,592	32	27	B		W0ETC	26,904	152	59	C
KB8QO	1,020	20	17	B	W9HL	1,020	20	17	B		KE0NJ	6,222	61	34	B
K8IR	74,562	289	86	B	KB9WBM	720	16	15	B		K0FA	5,664	59	32	B
K8CH	147	7	7	B	KA9OBZ	720	16	15	B		K0GT	11,844	94	42	B
<b>Ohio</b>															
N8IE	378,336	563	224	A	K9J	720	16	15	B		<b>Kansas</b>				
N8XA	57,960	161	120	A	W9YYG	212,184	421	168	C		AA0MZ	189,810	333	190	B
K8NVR	511,500	620	275	B	W9FGH	161,865	327	165	C		N0AB	99,456	259	128	B
K8LY	268,272	414	216	B	NA9Q	147,258	303	162	C		KC0DEB	45,156	142	106	B
W8DD	130,500	300	145	B	WA9CCQ	138,720	289	160	C		WB0YJT	40,500	150	90	B
W8WT	104,520	260	134	B	AB9DU	95,904	216	148	C		KA0EIC	20,790	99	70	B
KC8UTA	81,549	221	123	B	N9IVO	65,895	191	115	C		W0WPL	7,920	60	44	B
W8TM	77,760	216	120	B	AB9H	38,958	151	86	C		W0BH	592,371	793	249	C
N8BV	62,715	185	113	B	N3VI	29,580	116	85	C		N0OST	15,390	95	54	B
N8KOJ	60,669	189	107	B	WX9U	21,021	91	77	C		K0RH	15,660	116	45	C
WA8RCN	57,753	207	93	B	W9SE	14,520	88	55	C		<b>Minnesota</b>				
W08USA	48,471	151	107	B	W9VA	4,896	48	34	C		N0UR	77,922	222	117	A
N8TXI	46,800	156	100	B	KF9TI	25,803	141	61	C	15	AC0W	660,600	734	300	B
KB8K	39,732	154	86	B	KG9N	4,464	48	31	B	15	K0SQ	243,084	431	188	B
W8IDM	33,264	126	88	B	NA9DM	1,008	21	16	B	15	WA0MHJ	184,992	376	164	B
KC8RAN	30,744	122	84	B	KC9AMM	6,390	71	30	B	10	K0PC	133,008	272	163	B
WD9HBC	21,384	99	72	B	<b>Indiana</b>										
W8KNO	19,740	94	70	B	N4TZ	818,730	827	330	B		KA0ZPP	59,976	196	102	B
AF8C	19,116	118	54	B	N9DR	294,954	451	218	B		KN0V	36,378	129	94	B
KB8STK	11,016	54	68	B	WA1MKE	270,900	430	210	B		AA0NK	35,700	140	85	B
KD8VK	9,408	64	49	B	KA9F	269,064	444	202	B		WA2MNO	35,154	126	93	B
KX8N	8,100	60	45	B	AC9X	192,660	338	190	B		K0MPH	33,948	138	82	B
KB8YYF	3,534	38	31	B	N9KT	134,268	268	167	B		KA0DAQ	28,080	117	80	B
KC8YKQ	816	17	16	B	N9LF	80,256	209	128	B		W0DOM	27,528	124	74	B
N8CBW	270	10	9	B	W9UM	72,720	202	120	B		W0RXL	22,032	108	68	B
W8WTS	36	3	4	B	N9RV	4,295,280	3254	440	C		N0EO (AA0AW, op)	20,988	106	66	B
W8BIN	498,486	662	251	C	W9RE	3,833,925	3007	425	C		W0JEC	17,955	105	57	B
W8GG	192,528	336	191	C	K9LA	37,338	127	98	C		KB0R	16,320	85	64	B
AD8P	173,376	301	192	C	N9QX	29,145	145	67	C	40	W0ZQ	11,658	67	58	B
AB8NI	170,502	314	181	C	KC9BBA	75	5	5	B	20	KA0ZIA	5,940	55	36	B
K8VUS	120,834	294	137	C	<b>Wisconsin</b>										
WA8TNO	92,520	257	120	C	K9WIS	7,920	55	48	A		K0NY	2,310	35	22	B
W8JGU	79,788	218	122	C	N9EMB	126	7	6	A		KB0NES	2,184	28	26	B
N8NB	59,250	158	125	C	N9TTX	122,616	262	156	B		KT0R	597,534	694	287	C
KC8IVC	24,804	212	39	C	W9OA/X	76,614	226	113	B		W0ML	74,412	212	117	C
N8OH	9,588	68	47	C	KC8UWG	64,980	190	114	B		K0VG	40,230	149	90	C
					K9VS	30,723	133	77	B		N0KK	24,642	111	74	C
					W9WI	18,600	100	62	B		W0MN	7,614	54	47	C
					W9TOM	14,022	82	57	B		KS0T	31,098	142	73	C
					KB9S	5,439	49	37	B		<b>Missouri</b>				
					K0VPP/9	859,854	1031	278	C		K0GSV	71,862	203	118	B
											N0ZNB	36,456	124	98	B
											K0LTB	29,403	99	99	B
											KN0E	2,625	35	25	B



W6ISQ	64,200	200	107	C
W6SZG	57,552	176	109	C
N6KJ	40,656	154	88	B
N6EM	36,654	149	82	B
NB6E (KG6NCD,op)	600	20	10	C

**7**

K7KR	380,904	538	236	C
W6SA	131,976	282	156	C
KU7Z	30,150	150	67	B
W7SST	11,739	91	43	B

**8**

N8TR	1,197,315	905	441	C
K8AZ	582,114	439	442	C
N0FW	557,175	425	437	B
KA8PTT	69,459	169	137	B
NU8Z	54,918	162	113	B
KT8X	50,904	168	101	C
K8KHZ	48,150	150	107	B
N8KM	12,462	67	62	C

**9**

K9NW	1,932,336	1512	426	C
N2BJ	718,236	843	284	C
K9FY	211,365	305	231	C
W9GIG	198,729	311	213	C
K9UQN	128,640	320	134	C
W9VQ	56,244	172	109	B
K9OSH	49,728	148	112	B
WD9GMK	33,630	118	95	B
K8IAT (KC8KXX, op)	12,354	71	58	B
WT9U	9,585	71	45	B

**0**

K0KX	1,738,335	1445	401	C
N0AT	903,960	837	360	C
N0KE	743,436	772	321	C
AB0RX	485,982	609	266	C
N0FP	421,134	542	259	C
W0RK	353,457	477	247	B
K10F	317,190	485	218	C
K00B	255,216	409	208	C
K0AD	249,672	404	206	C
W0TT	201,432	308	218	C
AC0X	150,150	275	182	B
W0VD	142,788	292	163	C
NF0N	134,547	301	149	C
KF0GV	124,968	328	127	C
WG0M	85,284	206	138	B
W0MU	62,604	188	111	B
AK0M	34,125	125	91	B
N0J	33,579	123	91	C
N0KBD	10,416	62	56	B
K0BJ	7,920	55	48	C
VE3KYG	55,404	171	108	B
VE5MX	162,336	356	152	B
VE6TN	357,930	582	205	B

**Multioperator Single Transmitter**

**1**

**K1IR (+K1LZ, K1OA, K1VR, KE1J, NB1B)**

WB1ADR (+KA1ARB)	4,051,278	2923	462	C
	1,403,811	1431	327	C
W1BK (+W1NR)	884,340	867	340	C
W1YK (K1IW, KB1JMA, KB1JLY, KB1JLW, KB1KKU, N2YHK, N1PFC, N3SX, ops)	867,576	977	296	C
KB1FWN	85,278	233	122	B

**2**

NN2W (AA2MF, NY6DX, ops)	1,613,403	1419	379	C
WB2KHO (+KB2NOW)	391,140	530	246	B
WA2UBK (+N2WKS)	143,370	270	177	C
WB2ELW (KC2GJX, KB2KOL, KB2ESM, KI2X, K2CF, K2OO, KC2DGC, WA2YSJ, ops)	84,096	219	128	C

**3**

NE3F (+K3ATO, K3ZL, NT3V, KB3GWA)	2,167,011	1749	413	C
KD3CN (+N3BNA, KB3IGM, WB3CTD)	1,125,657	1069	351	C

N3MX (+K3YD)	978,930	1095	298	C
W3LJ (+W3IDT, K3NCO)	471,639	607	259	C
W3OK (W3CE, N3IYX, W3DEA, ops)	133,920	288	155	B

**4**

WW4LL (+N4GG, KU8E, NN4RR, K4ZJ)	1,752,651	1401	417	C
N4BP (+OK1DTP)	1,614,222	1503	358	C
K9ES (+AD4ES, K3ZM, KG4IPO, KI4TG)	1,194,102	1134	351	C
W4WS (KG4NEP, N0KTY, KG4ECI, W2DZO, ops)	966,867	913	353	C
KY4AA (AI4EB, N4GN, N4XM, NM4K, ops)	118,221	251	157	C

**5**

K5UA (+NA5Q)	539,460	666	270	C
W5LCC (KC5OBX, KB5KYJ, ops)	30,000	125	80	B

**6**

W6TE (+K6AAB)	298,764	516	193	C
K6EY (+K6ZCL, W6QE, KG6FEQ, KB6OPR, KR6ER, KD6CQS, N6PEH, ops)	180,000	400	150	C
W6UE (KC0MZL, N6AN, + ops)	51,282	231	74	C

**7**

N7YX (+N6HR)	486,720	832	195	C
N7PP (N7DOE, W7LKG, K7ROL, W7GX, W7NTF, W7BUN, ops)	354,240	738	160	C
WC7WB (KI0KB, W0EMS, ops)	239,481	451	177	C
NW7MT (NW7O, WA7MT, ops)	141,810	290	163	B
K7RDG (WB6OTS, KK7NO, KD7PEH, KD7PEH, N7INK, KD7HAB, KD7SSN, KD7OED, ops)	73,260	222	110	C

**8**

W8LBZ (N8HC, KV8BI, AA8M, K8HLH, KA8CAS, N8WXD, N8CF, ops)	150,093	327	153	C
K8BLP (KF8KT, KC8RZK, KC8WZW, KA8QWO, KC8YAA, ops)	58,968	189	104	C
WC8VOA (W8CDA, KB8ZYE, W8ND, KE8YND, KA8QFK, ops)	44,100	150	98	B
N8UZE (+KB8BSG)	31,464	114	92	B
KC8ELY (N8NJE, N8MMF, N8MPO, ops)	28,137	113	83	B
N8UVQ	7,260	55	44	C

**9**

N9DT (+KB9ZEK, KB9ZEN)	68,544	192	119	B
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**0**

K0DU (+K0CL, K0UK, WA4HND, N0ZA)	2,238,000	2000	373	C
W0ZT (+K0SR)	1,656,495	1405	393	C
N0STL (+K0IEX)	393,954	517	254	C
WB0NNI (+WB0RWH, KC0KFX)	325,710	462	235	C
K0SV (+K0IRY)	99,957	233	143	B
W0EEE	13,983	79	59	B
KB0RJF	510	10	17	B
VE3RM (+VE3WIB)	2,833,176	2434	388	C
VE3RZ (+VA3EC, VE3ESH, VE3HG, VA3GGF, VE3JQA, VE3QSK)	1,267,110	1235	342	C
VE6AO (VE6KC, VE6TC, VE6RCI, VE6VPD, VA6MAC, VA6RRB, VE6FTY, ops)	548,757	759	241	C

**Multioperator Two Transmitters**

K4JA (+AJ9C, K4MA, K7SV, K9GY, KE9I, W3BP)	8,245,080	4952	555	C
N3RS (+N3RD, N3ED, W8FJ, N3NA)	6,967,134	4449	522	C
W4RM W4NF K5OF W4RM W7IY K1SE	3,700,584	2994	412	C

NK7U (+K7ZO, KW7J, KL9A, KL2A, KC7RSO)	3,627,018	2754	439	C
K0TV (WO1N, K2TE, N1IW, N1ICE, WA1LY, WK1V, op)	3,474,048	2656	436	C
K5NA (+K5DU, K15DR, N3BB, N5ZC, WM5R)	3,309,411	2303	479	C
K7ZSD (+K7ZS, KI7Y, K7JI, K7PN, K7GK, W7ZB, KR7X, K7AR)	3,065,976	2634	388	C
VE1JF (+VE1AI, VE1DHD, VE1JS, VE1QD, VE1SKY)	3,061,320	2630	388	C
W2XL (+KC2HQF, N2MFZ, N2SA, W2IX, WA2JQK)	2,446,632	1928	423	C
AA5NT (+N3BUO, NW5X, N1CC, K5AEA, K5NZ, NT5TU, ops)	2,072,340	1740	397	C
W6YX (K6UFO, N7MH, W6RQ, W6GEM, ops)	1,948,293	1809	359	C
VE6FI (+VE6AQ, VE6ZA, VE6IVN)	1,914,963	1829	349	C
K6IDX (+KH8A, ND2T, W6CWO, W6OAT)	1,545,372	1396	369	C
W2RDS (+WA2C)	1,215,306	1262	321	C
K3DI (+W4EE, W3UL)	1,098,342	1137	322	C
K3OOO (+K3OO)	688,149	693	331	C
KD3TB (+K3FMQ, N3GNW, WW3Y)	590,934	661	298	C
W1SRG (AG1C, K1RDD, KB1JFG, KB1KST, W1LMP, ops)	177,123	391	151	C
AD5OW (+KB5VPR)	78,780	202	130	B
KO6JF (+KL7IDY, W0EEC, KJ6AF, KG6QVB, KF6YRG, KG6HM)	29,868	131	76	B
W4NLX (N9EL, N4TME, KN4JN, ops)	3,828	44	29	C

**Multioperator Unlimited Transmitters**

K3LR (+K3UA, N3RA, N2NC, KM3T, KI7WX, N2NT, K5TR, K9VV, K8CX, W9ZRX)	11,830,950	6465	610	C
KC1XX (+K1GQ, W1FV, AD1C, K1EA, WC1M, W2RQ, K6AW, K1DG)	10,704,474	6007	594	C
W3LPL (+K1HTV, K1RZ, K3FT, AI3M, K3MM, NK3R, K3RA, WR3Z, KD4D, K4ZA, AC5RR)	10,014,840	5620	594	C
K9NS (K9DX, K9GS, K9HMB, K9NO, K9PPY, K9PW, K9QVB, K9RS, KO9A, NF9V, W9RM, 8,904,870)	5031	590	C	
K1RX (+KF1V, N1IX, WA1S, K1NQ, K1GW, K1FOO, K1EO, K1BX, K1HI)	6,324,624	4008	526	C
KB1H (+K1EBY, K1XM, K9ZO, N1XS, W1TJL, KB1DFB, NB1U, K1IN, N1QAE, N1LYA, N4XR, 5,977,128)	3922	508	C	
K1TTT (+VA3PL, N1SR, W1TO, W1EQO, K1MK, K2WR, NJ1F, W3SM, W1MJB, K1EP)	5,413,356	3497	516	C
N3AD (+K3ZV, K3IPK, N3RG, N3DXX, AB3AH)	5,089,188	3434	494	C
W0AIH (+WR0DK, K9MU, AE9D, KB9OWD, K8GU, N9TK, K9TP, W9RMA, KB9LVK, N9TTX, 3,316,104)	2332	474	C	
W3PP (+N3KW, N3ME, N3YE, N3WDL, K3TKJ, KW3Z, KD5FWV, WV8RS, W9GE, NX3A)	3,253,044	2399	452	C
W8ZA (+K3DNE, K3IXD, K8OQL, WD3A)	2,286,804	1781	428	C
W2EN (+W2CG, W2NO)	2,218,605	1765	419	C
W1QK (+W0BR, W1JMA)	1,328,592	1244	356	C
W1AW (WB6ACU, K9EID, KA1RWY, NN1N, NJ1Q, K1MMH, K4DLJ, W5ZN, KA1ZD, WB9RRU, WB8SME, K3UFG, N7NG, K7BV, W1UK, K1ZZ, KB5YIQ, K7CCC, N1BKE, N1KB, AA1GW, N1ND, ops)	991,848	1144	289	C
WX3B (+K3ZE, N3FX, N3MNM, NY3A, AK3Z)	784,155	857	305	C
NG9R (+N9JF, KB9JIZ)	711,000	790	300	C
W4MOT (AF4YS, KG4MLC, N4EBC, N4CU, K14BYE, KG4UBE, KE4MVG, ops)	158,220	293	180	B
W6CEV (KW6PE, KA6WZR, W6SNE, W7CWW, KE6BBP, W6WDS, ops)	2,880	32	30	C

<b>DX</b>					JA8NFV	51,450	350	49	C	40	UA0WL	540	20	9	C	15
<b>Single Operator</b>					JH7XMO	5,832	72	27	C	40	UA0SMF	12	2	2	C	15
<b>Africa</b>					JA1RKI	600	20	10	B	40	<b>Kazakhstan</b>					
<b>Niger</b>					JH0NVX/1	108	9	4	B	40	UN6P	9,009	77	39	C	
5U7JB	1,218,888	2052	198	C	JA1CG	72,912	434	56	C	20	UN7JX	20,538	163	42	B	20
					JA1YFG (JQ1BRW, op)	49,050	327	50	C	20	UN7QF	16,626	163	34	C	20
<b>Morocco</b>					JH1UUT	3,888	54	24	B	20	UN6LN	252	12	7	C	20
CN2R (W7EJ, op)	5,960,034	5809	342	C	JA2CWU	2,256	47	16	C	20	<b>Hong Kong</b>					
<b>Canary Islands</b>					JE1GZB	561	17	11	B	20	VR2BG	29,088	202	48	C	
EA8/DJ1OJ	3,864	46	28	B	JA7NVF	179,640	998	60	C	15	<b>India</b>					
EA8BH	5,812,992	5568	348	C	JA9PPC	108,756	636	57	C	15	AT0D	396	12	11	B	20
EA8LS	215,586	1218	59	C	JF3BFS	58,200	388	50	B	15	<b>Iraq</b>					
EA8TX	34,578	226	51	A	JA3ZFN	50,196	356	47	B	15	YI3DX (W3ICM, op)	324	12	9	C	
					JR8OGB	48,000	320	50	C	15	<b>Europe</b>					
<b>Chagos Islands</b>					JA5APU	47,376	329	48	C	15	<b>Croatia</b>					
VQ9LA	184,320	512	120	C	7K4XNN	42,300	282	50	B	15	9A7ZZ	63,609	233	91	B	
					JA1KQX (JL1XMN, op)	33,699	239	47	C	15	9A4KA	8,091	87	31	B	
<b>South Africa</b>					JE1RXJ	33,456	328	34	C	15	9A5YY	3,450	46	25	B	
ZS4BS	714	17	14	B	JA1MZM	14,454	146	33	B	15	9A8DX	21,543	167	43	C	40
ZS6WPX	343,470	1070	107	C	JO7KMB	13,230	147	30	C	15	9A1P (9A6NDX, op)	282,960	1572	60	C	15
ZS5NK	37,752	242	52	C	JE1LFX	12,084	106	38	B	15	9A7DM	143,370	810	59	C	15
					JR9NVB	11,610	129	30	B	15	9A5KV	690	23	10	B	10
<b>Asia</b>					JA1BPA	10,560	110	32	A	15	<b>Malta</b>					
<b>Israel</b>					JL3TEM	9,483	109	29	B	15	9H1DE	16,008	116	46	B	
4Z5LZ	27	3	3	B	JA4AQR	6,804	81	28	B	15	<b>Portugal</b>					
					7N2UQC	5,610	85	22	B	15	CT1ELF	37,884	164	77	B	
<b>Singapore</b>					JA1IZ	4,704	56	28	B	15	CT3BD	7,128	72	33	B	
9V1YC	1,050	25	14	C	7N4WPY/1	4,485	65	23	A	15	CT3DZ	125,160	745	56	C	80
					JE6JVH	4,095	65	21	B	15	CT3IA	109,782	642	57	B	40
<b>Oman</b>					JA2FSM	3,888	54	24	C	15	CT1EAT	104,328	621	56	C	40
A45WD (YO9HP, op)	26,640	222	40	B	JA1XPU	3,498	53	22	B	15	CT3FQ	169,920	960	59	C	20
					JA1ANF	3,078	38	27	B	15	CT3KU	34,959	271	43	B	20
<b>Taiwan</b>					JA3PYH	2,592	48	18	B	15	CS6T (CT1ILT, op)	326,655	1785	61	C	15
BW0IR (JP1RIW, op)	15,876	147	36	B	JG1UKW	2,160	40	18	B	15	CT3KY	67,872	404	56	B	15
					JE1NQH	2,142	42	17	B	15	<b>Azores</b>					
<b>China</b>					JJ0JDK	1,872	39	16	B	15	CU2CE	23,760	220	36	C	160
B4TB (BA4TB, op)	3	1	1	B	JA8JI	1,638	39	14	B	15	CU2AF	5,922	94	21	B	10
					JQ1AHZ/2	1,638	39	14	B	15	<b>Fed. Rep. of Germany</b>					
<b>Kyrgyzstan</b>					JA3FZI	1,638	39	14	B	15	DF1DX	31,434	169	62	A	
EX2M	135,720	754	60	C	JH1RMH	1,560	40	13	B	15	DL6MHT	3,528	49	24	A	
EX8AA	14,490	138	35	C	JF7GDF	693	21	11	B	15	DM3HZN	66,420	246	90	B	
EX2X	1,377	27	17	B	JF2FIU	666	37	6	C	15	DH5AO	48,636	193	84	B	
					JG2REJ	600	20	10	B	15	DK8AX	37,800	168	75	B	
<b>South Korea</b>					JA2KKA	315	15	7	B	15	DL9MFN	31,668	182	58	B	
HL9TY	5,670	70	27	B	JL3RDC	294	14	7	B	15	DJ0GM	26,598	143	62	B	
HL1/WX8C	2,736	38	24	B	JK1BI	252	12	7	B	15	DL0PAF	25,668	138	62	B	
HL5UOG	13,992	106	44	C	JG1GCO	192	8	8	B	15	DK7FP	17,346	118	49	B	
					JH1TUX	180	12	5	B	15	DL9ZWG	13,800	92	50	B	
<b>Thailand</b>					JA1LBZ	126	7	6	B	15	DK2TG	12,540	95	44	B	
HS1OVH	2,898	42	23	B	JA1AAT	105	7	5	B	15	DH5WB	12,255	95	43	B	
E21EIC	36	4	3	B	JJ1BDX/3	72	6	4	B	15	DF6WE	11,475	85	45	B	
					JH1OCC	90	6	5	C	10	DL3DRN	11,466	98	39	B	
<b>Japan</b>					<b>Ogasawara</b>						DL5NAV	7,254	62	39	B	
JA2MWW	10,815	103	35	A	JD1BIA	252	12	7	B	40	DL1ARD	5,481	63	29	B	
JM1LPN	207,090	590	117	B	<b>Mongolia</b>						DL7FA	3,300	44	25	B	
JA1GYO	16,800	112	50	B	JT1KAJ	18,942	154	41	C	20	DL3SCN	2,730	35	26	B	
JA1BUI	14,652	111	44	B	<b>Turkey</b>						DJ1VQ	1,740	29	20	B	
JA7BME	12,696	92	46	B	TA2ZF	67,716	342	66	B		DC2LF	1,122	22	17	B	
JF1MQS	12,402	106	39	B	TA1FA	5,328	74	24	C	15	DK2ZO	990	22	15	B	
JR1SGU	11,844	94	42	B	<b>Asiatic Russia</b>						DL3TYA	912	19	16	B	
JH1RDU	11,316	92	41	B	RX9AM	13,932	108	43	B		DL5YU	1,913,994	2823	226	C	
JA1KK	6,132	73	28	B	RV9BI	7,668	71	36	B		DL5AWI	1,280,556	2004	213	C	
JA3PYC	5,766	62	31	B	RN9RZ	5,673	61	31	B		DK0PM (DH2PC, op)	223,704	717	104	C	
JA2GHP	4,356	66	22	B	UA9AX	3,225	43	25	B		DL2KCK	41,829	191	73	C	
JE1COB	4,347	63	23	B	RA9FLW	1,782	27	22	B		DF3IS	36,075	185	65	C	
JR1MRG	4,176	58	24	B	RA9XU	108	6	6	B		DK7YY	34,821	159	73	C	
JA1HG	3,105	45	23	B	UA9JDP	149,058	546	91	C		DL2FK	30,690	165	62	C	
JA4BAA	3,087	49	21	B	UA0ANW	101,184	496	68	C		DL2QT	18,666	122	51	C	
JH4FKX	2,898	42	23	B	RW0CF	18,432	128	48	C		DL1PT	17,202	94	61	C	
JA2KPW	2,457	39	21	B	RW0UU	12,420	90	46	C		DJ2QV	16,848	104	54	C	
JA3LEZ	2,106	54	13	B	RW0MM	2,565	57	15	B	80	DL9UBF	2,268	36	21	C	
JL3SIK	2,016	32	21	B	RZ0SR	3,384	47	24	C	40	DJ5MW	855	19	15	C	
JO3AXC	1,680	28	20	B	UA9PC	1,677	43	13	C	40	DK7AN	1,530	34	15	B	80
JA1BEU	1,632	32	17	B	RU0AW	125,493	709	59	C	20	DF3GY	92,400	560	55	C	40
JH1OLB	1,620	45	12	B	RA0AM	69,960	424	55	C	20	DJ2YE	792	22	12	B	40
JA3AVO	1,470	35	14	B	UA0AZ	32,148	228	47	C	20	DJ1XT	240	10	8	C	40
JJ0AEB	360	15	8	B	RU0AE	10,560	110	32	B	20	DJ7EO	402,318	2163	62	C	20
JH4UYB	1,135,428	1931	196	C	RA9AU	6,384	76	28	B	20	DL5KUT	108,750	625	58	C	20
JH1EAQ	745,620	1445	172	C	RK9CWW (UA9CIR, op)	4,620	55	28	C	20	DJ1AA	84,270	530	53	B	20
JH7DNO	502,200	1240	135	C	RU0AT	2,829	41	23	C	20	DJ4WA	55,332	348	53	C	20
JR3NZC	369,462	886	139	C	UA0APP	2,622	38	23	B	20	DL3WB	1,440	32	15	B	20
JP1NWZ	104,400	400	87	C	RZ9IB	1,653	29	19	B	20	DA0BCC (DF9ZP, op)	266,580	1481	60	C	15
JA7JHT	45,936	232	66	C	RU0SN	1,512	28	18	B	20	DF3KV	228,684	1292	59	C	15
JS1OYN	12,495	119	35	C	RV9UP	396	12	11	B	20	DF7YU	144,594	831	58	B	15
JS1DCZ	12,210	110	37	C	UA9LA	240	10	8	B	20	DL6EZ	62,700	380	55	C	15
JF3NDW	7,															

DJ2MX	52,173	341	51	C	15	F5BBD	106,275	325	109	C	I4AVG	61,476	436	47	C	80	
DL3ZAI	10,890	110	33	B	15	F5CQ	36,636	172	71	C	IK1HSS	15,147	153	33	C	80	
DF1IAQ	9,888	103	32	B	15	F6CTT	257,220	1429	60	C	40	IK8UND	14,112	147	32	C	80
DF1RK	5,670	70	27	B	15	F5N8X	185,640	1105	56	C	15	IV3OWC	93,060	564	55	C	40
DJ6TK	4,446	57	26	B	15	F5IN	174,522	986	59	C	15	IV3BKH	882	21	14	C	40
DG1BQC	864	24	12	B	15	F5NOD	38,478	242	53	B	15	IU9S	293,694	1579	62	C	20
DL5ANS	264	11	8	B	15	F6DRP	29,412	228	43	B	15	IT9STX	194,184	1044	62	C	20
<b>Spain</b>																	
EA3FF	9,417	73	43	A		<b>England</b>						IV3RCH	10,695	115	31	B	20
EA7RM	799,920	1320	202	B		G0DCK	11,997	93	43	A		I1BAY	3,657	53	23	A	20
EA3CI	756,525	1441	175	B		G4NXG/M	79,734	274	97	B		IK2LTR	1,944	36	18	B	20
EA1WS	354,468	1084	109	B		M0DDT	69,696	242	96	B		IV3RJT	1,890	35	18	B	20
EA7RU	254,718	801	106	B		M3RCV	27,405	145	63	B		I20EHL	72	6	4	B	20
EA1CBX	187,452	508	123	B		G8AWO	26,649	141	63	B		I28EWD	45	5	3	B	20
EA1OT	75,120	313	80	B		G4KHM	13,770	102	45	B		IR4T (I4UFH, op)	298,980	1661	60	C	15
EA3AKA	53,136	246	72	B		G4DBW	11,985	85	47	B		IU3A (IV3HAX, op)					
EA1CS	41,952	184	76	B		G6CSY	7,227	73	33	B		I25EBL	152,043	859	59	C	15
EA3ALV	28,968	136	71	B		G7RTI	5,208	62	28	B		I24AFW	134,748	788	57	C	15
EA7EWX	25,542	129	66	B		G0MRH	4,698	58	27	B		IK0EIE	34,545	245	47	B	15
EA3NA	18,300	122	50	B		G0EYO	3,363	59	19	B		I0QM	16,974	123	46	B	15
EA3GP	18,126	106	57	B		G1ZUC	1,953	31	21	B		I3QEB	6,417	69	31	B	15
EA4BZF	15,900	106	50	B		M6T (G4PIQ, op)	747,711	1377	181	C		I23EBA	1,428	28	17	B	15
EA2AVM	14,805	105	47	B		G4BUO	586,500	1150	170	C		<b>Sardinia</b>					
EA7TG	11,223	87	43	B		G0VXE	461,580	1099	140	C		IS0IGV	54,060	212	85	B	
EA1WX	7,938	63	42	B		G0MTN	155,685	485	107	C		IS0LLJ	26,448	152	58	B	
EA7FIQ	5,880	56	35	B		G3AB	15,552	144	36	C		<b>Norway</b>					
EA7HE	1,836	36	17	B		G0VOK	432	12	12	B	40	LA2L (LA71JA, op)	1,581	31	17	B	
EA4WC	-3	-1	1	B		G3RAU	178,770	1010	59	C	15	LA9HW	1,488,609	2571	193	C	
EA5DFV	1,215,045	2015	201	C		<b>Northern Ireland</b>						LA3S (LA3BO, op)	26,334	231	38	B	15
EA1AKS	939,099	1589	197	C		GI0KVQ	299,250	750	133	B		LA1YE	6,960	80	29	B	15
EA5KV	631,260	1169	180	C		GI0KOW	153,285	929	55	C	80	<b>Luxembourg</b>					
EA3MR	74,820	290	86	C		MI0LLL	447,702	2407	62	C	20	LX7I (LX2AJ, op)	37,269	303	41	C	80
EA5QL	16,524	102	54	C		GI0NWW	387,180	2151	60	C	15	LX1KC	64,944	451	48	C	40
EA1DVY	648	18	12	B	160	<b>Scotland</b>						LX1NO	86,022	531	54	C	15
EA1DLU	119,295	723	55	C	40	GM4ELV	6,264	72	29	A		<b>Lithuania</b>					
EA3BOX	101,400	650	52	C	40	GM4HQF	4,650	50	31	A		LY3CY	5,628	67	28	B	
EA3QP	26,712	212	42	C	40	MM3JHS	14,319	111	43	B		LY2OU	12	2	2	C	160
EA1AAW	9,288	86	36	B	20	MM0DGR/M	540	18	10	B		LY3ZM (LY1FK, op)	12	2	2	C	160
EA1YB	8,820	98	30	B	20	GM0TGE	821,313	1601	171	C		LY2LL	122,322	703	58	C	20
EA1CNF	3,528	49	24	B	20	MM0CWJ	58,320	240	81	C		LY7Z (LY2TA, op)	167,160	995	56	C	15
EA3FHP	2,442	37	22	B	20	<b>Guernsey</b>						LY2WJ	57,918	394	49	C	15
EA7FTR	138,237	781	59	B	15	MU0FAL	42,624	192	74	B		LY2TE	6,888	82	28	B	15
EA5ON/M	128,250	750	57	C	15	MU3GGSY	6,534	66	33	B		<b>Bulgaria</b>					
EA7HBP	34,839	237	49	B	15	<b>Wales</b>						LZ2BE	5,985	57	35	B	
EA3KT	27,750	185	50	B	15	MW5EPA	118,770	370	107	C		LZ1FJ	12	2	2	B	
EA1BIM	24,354	198	41	B	15	GW4BLE	370,107	2091	59	C	15	LZ1RW	2,280	38	20	C	
EA1ZH	17,760	148	40	B	15	<b>Hungary</b>						LZ2L	4,080	68	20	C	80
EA5GFK	16,680	139	40	B	15	HA1CW	2,160	36	20	A		LZ2A	13,650	130	35	B	15
<b>Balearic Islands</b>																	
EA6AEZ	21,060	117	60	B		HA4A	264,600	840	105	C		LZ2DF	5,580	62	30	B	15
<b>Ireland</b>																	
EI7CC	55,056	248	74	B		HA8KAZ (HA8MT, op)						LZ5Z (LZ3DJ, op)	2,400	40	20	B	15
EI6D	6,726	59	38	B								<b>Austria</b>					
EI8IR	536,877	1479	121	C		HA5JI	51,984	228	76	C		OE2M (OE2WPO, op)					
EI4DW	158,301	451	117	C		HA8MT	14,157	143	33	C	160	OE6Z (OE6MBG, op)	10,092	116	29	C	80
EI4CF	32,928	224	49	B		HA5A (HA8LLK, op)	798	19	14	B	80	OE6CWL	2,280	38	20	B	40
EI4IS	25,608	194	44	B	20							OE4A (OE1EMS, op)					
EI9HQ/M	2,508	38	22	B	20	HG3M (HA3MY, op)	126,378	714	59	C	40	OE8SKQ	268,461	1467	61	C	15
<b>Moldova</b>																	
ER3CT	38,055	215	59	B									206,460	1147	60	C	15
ER3ZZ	41,907	229	61	C		HA6IGM	4,758	61	26	B	20	<b>Aland Islands</b>					
ER1Q (ER1QQ, op)	161,100	895	60	C	20	HA1ZN	3,540	59	20	B	15	OH0R (OH2PM, op)					
<b>Estonia</b>																	
ES8SW	6,732	66	34	B		<b>Switzerland</b>							1,391,208	2366	196	C	
ES5RW	1,384,416	2508	184	C		HB9CVE	42,612	212	67	C		<b>Finland</b>					
ES5CX	1,287	33	13	B	15	<b>Italy</b>						OH2FS	26,412	142	62	B	
<b>Belarus</b>																	
EU2MM	17,061	121	47	B		IK4QJF	70,200	260	90	B		OH6OS	172,992	544	106	C	
EU1GA	780	20	13	B		I8OCA	59,616	276	72	B		OH1BOI	19,278	119	54	C	
EW6CU	324	12	9	B		IK2WZQ	44,820	180	83	B		OH2KI	15,300	102	50	C	
EU1AZ	1,302	31	14	C	40	IK2ZJN	40,515	185	73	B		OH4R (OH4JFN, op)					
EU1SA	21,930	170	43	C	20	I27EDQ	29,862	158	63	B			236,034	1269	62	C	20
<b>France</b>																	
F5BEG	156,375	417	125	A		I22ABN	27,267	149	61	B		OH8L (OH8LQ, op)					
F2RO	40,725	181	75	B		I25DKF	17,250	125	46	B			234,972	1284	61	C	20
F5QF	30,378	166	61	B		IK3SCB	14,847	101	49	B		OH8NC	111,081	607	61	C	20
F5TVL	25,500	125	68	B		I8TWB	14,490	105	46	B		OH4MDY	82,170	498	55	B	20
F8DBF	21,018	113	62	B		I20BNR	10,965	85	43	B		OH2XF	11,520	120	32	C	15
F8DNX	16,284	92	59	B		IT9YSW	9,288	72	43	B		OH5HVB	924	22	14	B	15
F6CZV	15,300	100	51	B		IK0XBX	4,929	53	31	B		<b>Czech Republic</b>					
F8BTR	13,365	99	45	B		I0KHP	4,320	48	30	B		OK1FNJ	66,420	246	90	B	
F8AAN	12,513	97	43	B		I28FCA	3,807	47	27	B		OK1KZ	54,810	203	90	B	
F5AXG	7,242	71	34	B		IK7WPD	3,192	38	28	B		OK1BA	25,752	148	58	B	
F8DRA	3,354	43	26	B		IK8MVB	2,277	33	23	B		OK2AB	25,545	131	65	B	
F6FRA	2,730	35	26	B		I1YGQ	2,100	35	20	B		OK1FC	23,985	123	65	B	
F6API	2,442	37	22	B		I20FVD	126	6	7	B		OK2BQL	9,936	72	46	B	
F6DZU	456,663	841	181	C		IO4T (IK4VET, op)						OK2DU	4,116	49	28	B	
							1,161,762	1946	199	C		OK1RI	3,150,504	3948	266	C	
						IR4R	651,900	1325	164	C		OK2BEN	3,060	51	20	B	80
						IK2SND	140,760	408	115	C		OK2PMS	975	25	13	C	80
						IK2ANI	123,264	428	96	C		OK1CF	182,838	983	62	C	20
						I2SVA	29,520	164	60	C		OL7X	32,349	263	41	C	20
						IT9ESW	13,824	96	48	C							
						IK2AIT	10,488	76	46	C							
						IK2GWH	5,148	52	33	C							

OK1CJN	8,712	88	33	B	20	SP2ATF	6,930	66	35	B	RA3XO	9,540	106	30	C	15		
OK1MMN	5,880	70	28	B	20	SP9MRQ	5,742	58	33	B	RU3DVR	4,800	64	25	B	15		
OL4M	3,780	63	20	C	20	SP2HPD	4,650	50	31	B	RX3DBG	1,260	28	15	B	15		
OK2BRA	3,432	52	22	B	20	SP8QED	3,720	40	31	B	RW4LQ	720	20	12	B	15		
OK1CAZ	2,400	40	20	B	20	SP4GFG	1,125	25	15	B	RW3AI	495	15	11	A	15		
OK2PVF	92,412	604	51	C	15	SP4LVK	648	18	12	B	RK6CM	480	16	10	B	15		
OK2NN	20,049	163	41	B	15	SP5XSD	60	5	4	B								
OK2ABU	10,272	107	32	C	15	SP9PEY (SP9ADU, op)	-30	-2	5	B	<b>Ukraine</b>							
<b>Slovakia</b>						SP9LJD	904,176	1794	168	C	UU4J (UU4JO, op)	840	20	14	A			
OM4DN	53,088	224	79	B		SP9QMP	136,080	420	108	C	UX8ZA	12,012	91	44	B			
OM7AT	28,224	147	64	B		SP5GMM	36,225	175	69	C	UU4JQE	1,404	26	18	B			
OM2VL	396	12	11	C	160	SP6EKS	4,896	51	32	C	UR6MX	27,030	170	53	C			
OM4WW	9,720	108	30	B	20	SP6IEQ	432	12	12	C	UT7UW	6,138	62	33	C			
OM3DX	95,082	598	53	C	15	SP3GEM	74,880	520	48	C	80	US5ZF	6,138	62	33	C		
OM7PY	9,216	96	32	B	15	SP3KFH (SP3JZR, op)					UR5AKU	5,400	60	30	C			
OM7YC	3,276	52	21	B	15						UT3SA	48	4	4	C	160		
OM8HG	540	15	12	B	15	SP9HZF	26,418	238	37	C	80	UT3UA	10,350	115	30	C	80	
<b>Belgium</b>						SN7Q	172,197	1007	57	C	40	UT2II	720	20	12	C	80	
OR4G (ON4KJ, op)	51,714	221	78	B		SP6IXF	73,899	483	51	C	40	UT5UIA	2,700	45	20	C	40	
ON4AST	38,220	196	65	B		SP4SHD	2,457	39	21	B	40	UY5ZZ	53,820	345	52	C	20	
ON4CHK	4,788	57	28	B		SP3FYX	2,394	42	19	B	40	US5UL	2,109	37	19	B	20	
ON4MGY	3,276	39	28	B		SP4AAZ	288	12	8	B	40	UT4MW	1,248	26	16	C	20	
ON4KVA	1,026	19	18	B		SP3FLQ	48	4	4	B	40	UT0D (UT7DX, op)						
ON5SY	426,240	1110	128	C		SO2R	507,408	2728	62	C	20		114,972	737	52	C	15	
ON4XG	13,908	122	38	B	15	SP2JKC	200,322	1077	62	C	20	US7IGF	28,614	251	38	B	15	
<b>Denmark</b>						SP4DEU	147,600	820	60	C	20	UR5ZLK	480	16	10	B	15	
OZ1ACB	62,985	247	85	B		SP6T	83,328	496	56	C	20							
OZ7AEI	24,192	128	63	B		SP9NFB	10,791	109	33	B	20	<b>Latvia</b>						
OZ1HXQ	1,112,085	1901	195	C		SP5DRE	2,295	45	17	B	20	YL2KO	586,482	1339	146	C		
OZ3W	25,728	128	67	C		SP2AVE	1,632	34	16	B	20	YL2GD	128,544	412	104	C		
OZ4RT	3	1	1	B	40	SP9W	1,512	28	18	B	20	YL2LY	75,582	323	78	C		
OZ8AE	15,990	130	41	B	15	SP3DOF	702	18	13	B	20	YL1ZJ	1,170	30	13	B	80	
<b>Netherlands</b>						SN6I	570	19	10	B	20	<b>Romania</b>						
PC2T	151,116	514	98	B		SP2EXN	24,912	173	48	B	15	YO3CZW	53,586	229	78	B		
PA9KW	50,640	211	80	B		SP4ZO	16,146	138	39	B	15	YO7ARY	4,698	54	29	B		
PA0KDM	43,371	183	79	B		SP4JQC	15,120	144	35	B	15	YO7BGA	12,771	99	43	C		
PF9A	24,255	147	55	B		SQ8FEW	9,576	114	28	B	15	YR7M (YO3JR, op)	57,450	383	50	C	40	
PG7V	18,645	113	55	B		SP4CQU	7,221	83	29	B	15	YP3A (YO9GZU, op)						
PA3GBI	15,435	105	49	B		SP4XQN	5,952	62	32	B	15		102,396	644	53	C	20	
PA8KW	15,000	100	50	B		SP5BYC	1,734	34	17	B	15	YO6KQQ (YO6QT, op)						
PA3GGW	14,580	108	45	B		<b>Greece</b>							4,356	66	22	B	20	
PA0B	9,372	71	44	B		SV1XV	297	11	9	B		YO2RR	14,178	139	34	C	15	
PA0IJM	105,987	343	103	C		SX1A (SV1DPI, op)	14,760	123	40	C		YO3APJ	5,328	74	24	B	15	
PA0JNH	91,350	290	105	C		SV1BFW	5,568	58	32	C		<b>Serbia and Montenegro</b>						
PA5TT	46,224	214	72	C		SV2AEL	10,296	104	33	B	15	YU7AM	6,426	63	34	B		
PA4A	30,378	166	61	C		SV1BJW	9,996	98	34	B	15	YU7AV	2,640	44	20	C	160	
PE2SVN	24,180	155	52	C		<b>Bosnia-Herzegovina</b>						YZ1E	159,543	933	57	C	40	
PA1BX	15,444	117	44	C		T94LW	30,780	171	60	B		YU1JW	253,455	1385	61	C	20	
PA5A	41,877	297	47	C	20	T98T	33,480	279	40	C	80	YT1AD (4N1NM, op)						
PA7FM	61,500	410	50	B	15	T99W	128,790	795	54	C	40		212,040	1140	62	C	20	
PA0MIR	8,736	104	28	B	15	<b>Iceland</b>						YU1AAX (YT1RW, op)						
<b>Slovenia</b>						TF3AM	20,340	113	60	B			5,589	69	27	B	20	
S53O	1,497,660	2180	229	C		TF3MA	6,039	61	33	B		YU1PJ	168	8	7	B	20	
S52AU	66,165	401	55	C		TF8GX	119,556	492	81	C		YZ1AU	227,880	1266	60	C	15	
S53M (S55OO, op)						TF3CW	98,118	414	79	C		YZ9A (YU1AU, op)						
S51DX	178,560	992	60	C	40	TF3AO	15,147	99	51	C			186,912	1056	59	C	15	
S53ZO	209,064	1124	62	C	20	<b>Kaliningrad</b>						YT7Z (YU7EE, op)						
S59W	94,050	570	55	C	15	UA2CZ	39,537	191	69	C		YU1TT	150,309	879	57	C	15	
S50O	82,314	538	51	C	15	<b>European Russia</b>						YT7TY	46,710	346	45	C	15	
<b>Sweden</b>						RW3VZ	2,736	38	24	A		YU7KM	14,208	128	37	A	15	
SM5ARL	18,150	121	50	A		RW3GB	91,344	346	88	B			9,207	99	31	B	15	
7S6A	26,280	146	60	B		RV3FF	89,991	303	99	B		<b>Macedonia</b>						
SM0BDS	17,685	131	45	B		RA6AAW	11,193	91	41	B		Z32AF	792	24	11	C	80	
SM0FM	6,825	65	35	B		RX3DCN	9,126	78	39	B		<b>North America</b>						
SM6RXZ	4,275	57	25	B		RX3MM	8,058	79	34	B		<b>Jamaica</b>						
SM5QU	3,402	42	27	B		RA3AMG	4,860	54	30	B		6Y4Y	166,770	510	109	B		
SJ9WL (DL2DVL, op)	3,102	47	22	B		UA6HON	3,150	42	25	B		<b>Barbados</b>						
SM3XRJ	2,760	40	23	B		RN1AO	528	16	11	B		8P6FH	83,952	318	88	B		
SM3EAE	2,706	41	22	B		UA4WLI	216	9	8	B		8P1A (W2SC, op)						
SM6IQD	1,428	28	17	B		RK4FF	938,232	1884	166	C			9,468,711	8841	357	C		
SM7CQY	122,550	475	86	C		RX3RC	129,675	455	95	C		8P6EX	584,307	1139	171	C		
SM7BJW	40,401	201	67	C		RV1CC	77,517	297	87	C		<b>Cuba</b>						
SM0W (SM0WKA, op)						RA3CO	64,242	249	86	C		CO8KA	135,240	805	56	B	80	
SM5ALJ	18,207	119	51	C		UA4RC	52,845	271	65	C		CO2JD	94,563	553	57	B	40	
SM6E (SM6FUD, op)						RV3NA	12,852	102	42	C		CO8ZZ	300,420	1669	60	C	15	
7S2E SM2DMU, op)						RA4YW	12,600	100	42	C		CO8LY	236,322	1382	57	B	15	
SM5E	7,569	87	29	B	20	RK3DK	11,844	94	42	C		CM8WAL	29,280	305	32	B	10	
SM5INC	134,460	830	54	C	15	UA3TCJ	8,736	91	32	C		CO2TK	26,220	380	23	B	10	
SM2YIZ	990	22	15	B	15	RW3GU	5,400	60	30	C		<b>Martinique</b>						
<b>Poland</b>						RU6FA	966	23	14	C		TO5A (NH7A, op)						
3Z6V (SP6DVP, op)	87,780	308	95	B		RA3DNC	27	3	3	C			4,670,325	4675	333	C		
SP3GHK	54,531	219	83	B		RN6BN	1,680	40	14	C	160	FM5FJ	166,824	993	56	B	15	
SQ8JLA	43,254	178	81	B		RA6AFB	1,989	39	17	C	80	<b>Saint Martin</b>						
SP9UML	42,009	209	67	B		RN4LP	14,136	124	38	C	40	FS/K8HTP	188,160	560	112	B		
SP3BVI	17,280	128	45	B		RD3A (RD3AF, op)						<b>Dominican Republic</b>						
							159,402	857	62	C	20	HI3TEJ	1,028,883	1777	193	A		
							18,144	144	42	B	20							
							8,091	93	29	C	20							
							1,581	31	17	C	20							
							36	4	3	B	20							

HI3NR	118,287	337	117	B	VK3GK	38,073	259	49	C	15	PY3PA	55,845	219	85	C	
HI8/JA6WFM	285,120	1584	60	C	15	<b>Indonesia</b>					PY3MSS	1,368	24	19	C	
<b>Panama</b>						YB0WWW	6,396	82	26	B	PP5UA	46,950	313	50	C	
HP1XVH	296,826	1622	61	C	20	YB0AJR	66,096	272	81	C	ZX5J (PP5JR, op)	438,291	2319	63	C	
HP3XBS	309,024	1776	58	C	10	YB0AI	9,492	113	28	C	40	PY2NY	176,046	962	61	B
<b>Honduras</b>						YB2VTO	972	27	12	B	40	PY2ZR	41,454	282	49	B
HR9/N0HJZ	168,696	568	99	B		YB0ECT	23,436	186	42	B	20	PS2T (PY5EG, op)				
HR1AGC	24,069	113	71	B		YC9WZJ	3,000	50	20	B	15		490,296	2636	62	C
HR1CP	505,050	962	175	C		YC3MM	2,940	49	20	B	15	PT5A (PY2EMC, op)				
HR1RBM	17,316	148	39	B	20	<b>New Zealand</b>							439,890	2365	62	C
<b>Grenada</b>						ZL2AL	130,005	405	107	B		PY3FBI	18,327	149	41	B
J37LR (VE3EBN, op)						ZL4PW	4,608	48	32	B		ZY5G (PP5WG, op)				
	198,648	534	124	B		ZL1ALZ	71,928	296	81	C			419,253	2291	61	C
<b>St. Vincent</b>						<b>South America</b>						PX2W (PY2YU, op)				
J88DR	3,107,160	3699	280	B		<b>Guyana</b>						317,184	1792	59	C	
<b>Guantanamo Bay</b>						8R1K (EA4BQ, op)						PU2WDX	76,788	474	54	B
KG4WW	60,480	420	48	B	15		4,696,704	4832	324	C		PY2NB	43,512	296	49	B
<b>Alaska</b>						<b>Chile</b>						PY5PDC	43,071	293	49	B
KL7IKV	16,692	107	52	A		CE3NR	1,145,427	1999	191	C		PY2SRB	32,379	251	43	B
KL7FAP	107,610	422	85	B		XQ1SCQ	288,981	973	99	C		PY2BRZ	20,787	169	41	B
AL9A	62,640	240	87	B		CE4PBB	223,200	1240	60	C	10	<b>Venezuela</b>				
KL1V	1,394,550	2066	225	C		XQ4EM	82,335	499	55	B	10	YV1K3UOC	507,000	1000	169	C
KL7RA	134,406	786	57	C	40	CE5BSS	68,970	418	55	B	10	YV4BU	130,200	775	56	C
KL1SF	41,601	283	49	B	15	CE1L	61,056	424	48	B	10	YY5YMA	89,358	562	53	B
<b>Virgin Islands</b>						<b>Bolivia</b>						YW5NN (YV5NWG, op)				
WP2Z (N2TK, op)						CP1FF	6,840	57	40	B		106,020	620	57	C	
	4,538,226	4598	329	C		<b>Uruguay</b>						4M4C (YV4GLD, op)				
<b>Puerto Rico</b>						CX1AV	161,280	960	56	B	10	YV5AAX	50,337	329	51	B
WP3R (K9PG, op)						CX4DX	131,880	785	56	B	10	YV5IAL	10,584	98	36	B
	6,028,056	5774	348	B		<b>Galapagos Islands</b>						YV7QP	38,184	296	43	B
WP4LNY	33,768	168	67	B		HD8A (HC1HC, op)						YY5JRU	18,336	191	32	B
WP3GW	243	9	9	B			1,584,360	2445	216	A		<b>Paraguay</b>				
KP4JRS	918	18	17	C	20							ZP6Y (ZP5AZL, op)				
WP4EDD	145,521	851	57	A	10	<b>Colombia</b>						1,242,180	2060	201	C	
<b>Costa Rica</b>						HK3JJH	1,189,440	1770	224	B		<b>Single Operator Assisted</b>				
TI5N (W8QZA, op)						HK6PSG	809,172	1482	182	B		<b>Asia</b>				
TI5A (W5AJ, op)	1,246,050	1846	225	A		HK3AXY	193,224	664	97	B		UA0SE	39,432	248	53	C
TI2VW	5,947,722	5814	341	B		5K1X (HK1HHX, op)						HS1PDY	7,455	71	35	B
TI3MAO	1,099,134	1614	227	C			1,305,720	2015	216	C		JA0FVU	5,292	63	28	B
	270	15	6	B	15	<b>Argentina</b>						<b>Europe</b>				
<b>St. Kitts &amp; Nevis</b>						LU1VK	241,302	614	131	A		DL1IAO	1,469,412	2401	204	C
V44NK	466,560	1080	144	C		LU2EE	267,960	770	116	B		SP8BRQ	1,433,586	2233	214	C
<b>British Virgin Islands</b>						L20E	234,600	782	100	B		YT7A (4N7DW, op)				
VP2V/K1NSS	13,566	119	38	B		LU1AS	54,315	255	71	B			1,387,440	2256	205	C
<b>Bermuda</b>						LT1D (LU4DJC, op)						SN8F (SP8FHK, op)				
VP9/W6PH	2,880,495	3369	285	B			379,353	923	137	C			832,506	1559	178	C
<b>Mexico</b>						LU8ADX	4,134	53	26	C	40	YL8M (YL2KL, op)	486,975	1075	151	C
XE1XOE	799,968	1282	208	B		LU1FZR	244,671	1337	61	C	20	MM0BSM	331,932	796	139	C
XE2AUB	637,350	1214	175	B		LT0H (LU3HY, op)						DL1YD	297,540	870	114	C
XE2AC	162,288	483	112	B			234,606	1282	61	C	20	EA4KD	238,476	668	119	C
XE1CQ	91,896	547	56	B		AY8A	202,398	1106	61	C	20	OH6QU	194,310	635	102	C
XE1MM	709,956	1443	164	C		LU5FB (LU1FJ, op)						G3VAO	176,403	463	127	B
XE1L	304,560	1692	60	B	20		118,842	683	58	C	20	UA3AGW	156,006	486	107	C
XE1CT	128,079	749	57	B	20	LP0H	329,583	1801	61	C	15	YL0A (YL2KA, op)	132,384	394	112	C
XE3WAO	106,641	697	51	B	15	LU7DW	318,603	1741	61	C	15	EA5FID	122,877	369	111	C
XE1KK	69,165	435	53	A	15	LU2QC	305,613	1617	63	C	15	G3YYD	88,911	333	89	B
<b>Cayman Islands</b>						LU5EML	264,069	1443	61	C	15	EA5KB	66,960	248	90	C
ZF2NT	170,748	527	108	A		LU2FM	174,522	1003	58	C	15	DJ9MH	60,528	208	97	B
ZF2AH	612,684	3348	61	C	20	LU7FCV	40,434	293	46	B	15	IR2V (I2WIJ, op)	59,511	239	83	B
<b>Oceania</b>						LT1F (LU1FAM, op)						DL4YAO	51,798	194	89	C
<b>Philippines</b>							446,220	2479	60	C	10	II1M (IK1SOW, op)	49,800	200	83	C
DU1BP	36,630	222	55	B		LU5FII	129,108	742	58	B	10	IK0YVV	46,848	244	64	C
DU1EV	34,209	181	63	B		LU6HPF	123,585	749	55	B	10	DH0GHU	46,563	187	83	C
4F4ACV	2,016	32	21	B		LU3HS	100,980	612	55	B	10	PA0KHS	44,928	208	72	B
DU9AXJ	7,488	104	24	C	40	LW3DX	97,704	552	59	A	10	OH4RH	28,458	153	62	C
DU9AWY	15,876	147	36	B	15	LU6FOV	41,400	300	46	B	10	DK3GI	27,900	150	62	C
DU4JT	135	9	5	B	15	<b>Peru</b>						EA5EG	27,450	150	61	C
<b>New Caledonia</b>						OA4SS	2,712,060	3477	260	C		DK1FW	14,400	96	50	C
FK8HN	250,368	652	128	B		<b>Aruba</b>						SM6CNN	6,027	49	41	C
<b>Hawaii</b>						P40L (W6LD, op)						DL4RCK	4,896	51	32	B
KH6/K1NU	220,284	633	116	B			6,757,338	6454	349	C		EA3GIP	912	19	16	B
AH6HH	4,446	57	26	B		P40A (KK9A, op)	607,290	3265	62	C	20	CT1CXP	420	14	10	B
KH6QJ	105	7	5	B	80	<b>Netherland Antilles</b>						<b>North America</b>				
KH6GMP	71,073	447	53	B	15	PJ4/KG9QX	84,900	566	50	A	10	KP4KE (DK8ZB, op)				
<b>Australia</b>						<b>Brazil</b>						4,896,774	4887	334	B	
VK4UC	413,478	806	171	C		PV8DX	888,849	1391	213	B		<b>Oceania</b>				
VK2CZ	25,668	138	62	C		PT2FM	507,591	1151	147	B		KH7X (KH6ND @KH6YY)				
VK4XES	5,220	60	29	C		PT2ND	458,184	1123	136	B		6,205,416	6013	344	C	
VK6DXI	3,075	41	25	C		PP5KE	215,586	609	118	B		<b>South America</b>				
VK2KPP	116,280	680	57	C	40	PY2DJ	165,006	534	103	B		LU1NDC	2,374,752	3412	232	C
						PY7EG	148,092	602	82	B		ZX2B (PY2MNL, op)				
						PY3YD	28,620	212	45	B			2,289,084	3206	238	C
						PY7VI	27,384	163	56	B		PY2YP	989,664	1586	208	C
						PP5ZP	396	12	11	B		LU4DX	254,271	647	131	B
						PT2ADM	195,426	693	94	C		PY4RGS	169,371	459	123	C

**Multipoperator Single Transmitter**

**Africa**

EA8ZS (+EA8AKN, EA8AZM, EA8BVX, EA8BYM, EA8CAC, EA8NL)  
2,542,590 3139 270 C

**Asia**

J12ZJS (JA2AXB, JA2JDR, JA2JSF, JE2HCJ, JG2TSL, JH2UVL, JL2TAW, JM2RUV, ops)  
642,003 1237 173 C  
RK0AXX (RU0AIG, RA0ALM, RV0AX, ops)  
139,728 568 82 C  
JA7YAA (JG7PSJ, JE7HLZ, JO7FTJ, JH0NZN, JO7DJT, ops)  
60,750 250 81 C  
RW9C (RW9CF, UA9CGA, ops)  
20,880 174 40 C  
RZ0IWR (UA0IAS, UA0-138-237, ops)  
13,944 166 28 B  
RZ9OZO (UA9PC, +ops)  
648 24 9 C  
RK9CZO (RV9CTD, UA9CTT, ops)  
231 11 7 C

**Europe**

IR4X (I4VEQ, I4TJE, I3ZEYZ, ops)  
3,063,741 4273 239 C  
IR4M (IK3QAR, I4IFL, I4FYF, IK4DCW, IK4HVR, IK4MGP, IK4SXJ, IK4WMH, ops)  
2,457,750 3277 250 C  
OM7M (OK2BFN, OM3PA, OM3PC, OM5RM, OM5RW, OM5ZW, ops)  
2,319,282 3318 233 C  
HG1S (HA1TJ, HA1DAC, HA1DAI, HA3LN, HA1SN, HA1SD, HA1AH, HA1AR, HA1AV, 2,134,350 3162 225 C  
OE2S (OE2LCM, OE2MON, OE2VEL, OE2WPO, ops)  
1,938,678 2978 217 C  
MM0EAX (+GM3POI)  
1,855,800 3093 200 C  
LY4A (LY2FY, LY2CO, LY3CI, LY4CW, ops)  
1,374,075 2325 197 C  
OZ5E (OZ1ADL, OZ1XJ, OZ1DD, OZ0J, OZ0KY, OZ6O, ops)  
1,370,859 2251 203 C  
HB9AUS (+HB9DPD, HB9BYT, HE9EEX, HE9ASD)  
1,230,096 2092 196 C  
HB9CXZ (+HB9FAP, HB9OAB)  
1,168,344 1803 216 C  
SN8V (SP8GQU, SP8GWI, SP8LBK, SQ8J, ops)  
1,094,511 1951 187 C  
PI4TUE (PC5A, PA0R, PA5MW, PA3FGA, PA9JB, ON9CC, ops)  
796,224 1508 176 C  
I1VDM (+ I1HAG, IK1QLD, I1GJC, I1RB, IZ1CRR)  
789,252 1478 178 C  
OZ5ESB (OZ1CWP, OZ1INN, OZ4AFQ, ops)  
593,892 1222 162 C  
4U1ITU (K1TW, LA7JO, OM3CGN, ops)  
516,630 1013 170 C  
SK3GM (SM3RAB, SM3WUM, SM3D, ops)  
494,199 1277 129 C  
IQ2LS (I2OKW, IZ2FFK, IZ2NFJ, ops)  
350,106 989 118 C  
EA7RCT (EA7DXJ, EA7FNJ, EA7UU, ops)  
267,696 624 143 B

SP4PBI (SP4-17-001, SP4-17-002, + op)  
179,088 533 112 B  
IR3A (IV3HYD, IV3RAV, IV3GHY, ops)  
136,530 410 111 C  
DJ5IW (+ops)  
111,720 392 95 C  
SP2KDS (SP2AYC, SP2QOY, SQ2BXI, ops)  
60,264 248 81 C  
SP9PZU (SP9EB, SQ9ZM, ops)  
22,032 136 54 B  
SP9KRT (SP9ADU, SP9ZW, ops)  
17,298 93 62 B  
EW2WW (EW2EO, EW2-126, ops)  
14,112 112 42 C  
RK3XWD (R3X-548, RA1ZZ, ops)  
960 32 10 C  
UZ4E (UR7EU, US-E-601, op)  
540 18 10 C

**North America**

VP5B (K4CN, K4ISV, ops)  
7,461,300 7106 350 C  
V31MD (+K0ZV, W0CP)  
4,474,458 4506 331 C  
KP2A (W0GJ, W0PJ, ops)  
4,099,104 4128 331 C  
6Y8Z (WN9O, WO9Z, W9IU, ops)  
2,786,085 3065 303 B  
T48RAC (VE3ESE, C08KL, C08DD, C08YK, C08WS, C08ESE, C08DLF, CM8LRB, CM8JBM)  
677,484 1476 153 B  
C6ANM (C6AWB, C6ANM, ops)  
540,930 949 190 B  
PJ7B (W8EB, W8DVC, K8RLM, W9MSU, ops)  
166,650 550 101 C

**Oceania**

DU9DWV (+4F9EAO)  
23,352 139 56 B

**South America**

PJ4G (K2NG, K2QM, K2TW, ops)  
7,313,220 7005 348 C  
HC8L (K6BL, W6NL, ops)  
6,537,480 6280 347 C  
CX5BW (+CX8CP, CX7BY)  
2,892,438 3737 258 C  
PX2A (PY2BK, PY2EX, PY2MTV, PY2PT, PY2WB, ops)  
1,538,484 2419 212 C  
LU1BJW (+LU1AEE)  
687,060 1388 165 C  
PY3ARD (PY3CGP, PY3JAF, PY3DX, ops)  
102,312 348 98 B

**Multipoperator Two Transmitters**

**Asia**

JA1YPA (JA1PEJ, JO1CRA, ops)  
27,081 153 59 C

**Europe**

HG6N (HA1AG, HA3OV, HA3NU, HA6ND, HA6ON, HA6NY, ops)  
2,634,645 3835 229 C

RU1A (RW1AC, RV1AW, RA1AIP, UA1ARX, RV3BA, UA3ASZ, RW1ZA, ops)  
2,561,685 3935 217 C  
9A7A (F5VCO, 9A8A, 9A7V, 9A3OS, 9A3TR, 9A4PA, 9A4RX, 9A6DM, ops)  
2,536,128 3774 224 C  
DK6WL (+ DL1MGB, DL4RDJ, DL6RAI, IV3IYH, ops)  
2,350,866 3514 223 C  
RW2F (UA2FB, UA2FF, RN2FA, ops)  
2,158,902 3286 219 C  
M4A (G0WAT, G3ZAY, G4AAX, G4EAG, G4JVG, G4KNO, M0BBB, M0BLF, M0TDG, ops)  
1,217,160 1960 207 C  
UW2I (UT2IY, UT2IJ, UT2IV, US2IR, UX2IO, UR5IEE, UR6IRM, UR5IFB, UY3IM, US2IES, 919,026 1674 183 C  
SN3U (SP3ASN, SP3GTS, SP3GXH, SP3HUU, ops)  
270,126 698 129 C  
SN4L (SP4XQN, SP4DTU, SP4TKR, SQ4MP, SQ4KQ, ops)  
239,580 660 121 C  
OL9S (OK1DOS, OK1DEK, ops)  
60,456 229 88 C  
PA0PSA (+PA0POS, PA3F, PA2F)  
30,015 145 69 B

**North America**

V26DX (DF2BO, KM9M, N5NJ, V21DM, WX0B, ops)  
7,262,541 6897 351 B  
TI8M (TI2KAC, W4BD, K4UN, NA4BW, TI2MOT, W4KTR, K4WPM, ops)  
5,464,152 5553 328 C  
KL7DX (KL7FH, AL1G, KL1MX, ops)  
1,806,096 3056 197 C

**Oceania**

AH6NF (+AH6RH) 23,520 140 56 B

**South America**

PJ2T (PJ2DX, K8ND, WB9Z, NW0L, AE9B, ops)  
12,484,800 11560 360 C  
FY5KE (F1HAR, F5HRY, F5MZN, F6FVY, FY5FY, ops)  
11,418,069 10543 361 C  
ZX3S (PY3FOX, PY3NZ, PY3KN, PY3PAZ, PU3WEB, PY3CQ, PY3MM, ops)  
2,188,662 3362 217 C

**Multipoperator Unlimited Transmitters**

**Asia**

JA3YBK (JH4NMT, JH4UTP, JR4ISF, JI3OPA, ops)  
1,331,190 2113 210 C

**Europe**

9A1A (9A5W, 9A5E, 9A5K, 9A6A, 9A7R, 9A2R, 9A2EU, 9A2DQ, 9A4WW, 9A9A, ops)  
3,146,610 3958 265 C  
LZ9W LZ1ZD, LZ1UQ, LZ2HM, LZ2CJ, LZ1ANA, LZ3UM, ops)  
1,555,092 2541 204 C

**North America**

VQ5A (WE3C, N3FTI, KQ3V, ops)  
10,867,860 10470 346 C  
V47KP (W2OX, K3NM, ops)  
6,850,821 6581 347 C