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# 1997 ARRL International DX Contest Phone Results

*Despite dreadful propagation conditions, it was a great show!*

The broken record continues. Wait a second—today that should read “the broken CD continues.” The propagation gods threw an abysmal lack of sunspots nor anything else good at most of the world’s contesters for the SSB DX Contest weekend. Although we were all disappointed at the state of the ionosphere and the auroral activity that made completing QSOs difficult, the beauty of contesting is that we still get to compete! We still have the guy across town or across the state who is going to be suffering just like us, and whomever can stick it out till the end, work the hardest (have the most fun?), and make the most QSOs will win. That’s the drive that kept hundreds of stations going all weekend.

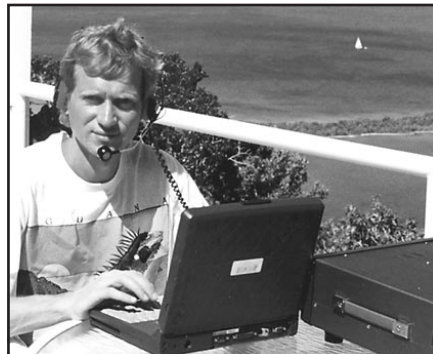
It wasn’t a total washout everywhere, however, because there still were some awesome scores, and many entrants were only down 10 to 20% from last year. When conditions are disturbed 15 meters is often great in South America. With polar path conditions so poor, all antennas look south from North America, and north from South America. LU6ETB just kept piling on the QSOs, finally ending with 3836 to go with 61 multipliers for a 702K score on 15—more than doubling last year’s winning score. Well behind but still reaching 3050 QSOs was ZZ9A in second place with 558K. In fact, the top five scores all exceeded 1996’s 15 meter winning score!

And 10 meters was pretty good in Argentina, too, as long-time contesteer LU1BR amassed 1430 QSOs and over 240K points—65K better than last year’s winning score.

Contest activity is really increasing in South America. Huge scores are possible thanks to the almost 100 percent reliable propagation to North America and nearly as reliable conditions to Europe. SSB activity dominates in South America, so imagine how much higher the scores could be if there were no language barriers! American hams who speak Spanish gain a nice edge in QSOs when conditions are like they were in 1997. N3RA is one of K3LR’s secret weapons because Scott has the ability to use Spanish to round-up the noncontesters throughout Latin America. K3ZO is capable of doing the same. Want to add a weapon to your station? Take conversational Spanish courses! A little Por-

## Top Ten

W/V Single Operator, QRP, Phone		W/V Single Operator, Low Power, Phone	
KC6ETY	211,869	WA4ZXA	819,534
AA2U	196,212	K2SG	623,700
N1AFC	112,014	K8PO	583,050
K2PS	103,044	W2TZ	338,142
N7VY	84,744	WA7BNM	310,944
W7YAO	83,385	NA2U	290,265
N1TM	76,935	NY3Y	266,490
N1CWR	75,264	N4DL	262,728
N9SXT	66,330	WO4O	241,605
N6AZR	64,860	N9JF	223,020



John, KK9A, operating from VP2V didn’t let the beautiful surroundings stop him from making 3,526 contacts on 20 meters to win the 20 meter single band world plaque.



Brian and crew, ZF2FT, came in fifth place world multi-single. Congratulations to all, they really put in a great effort.

tuguese would be a good idea for bagging all those Brazilian contacts, too.

There have been other contests, especially in the high sunspot years of the last cycle, where Japanese operators have visited US western and southern stations to really rack up the JA QSOs. When conditions are good, and competition tight, a little language advantage may be all you need to win. Other languages useful for contesters include French for snagging those difficult African multipliers in the afternoon on 20 meters, and Hindi to attract some of those VU QSOs!

From the US and Canada, 15 and 10 meters were what one would expect: Poor. But W4WA and K4JYO put together excellent scores with more than 400 QSOs and 80 countries on 15 meters. One pretty much needed to be down south to work anything other than South America. W5AJ and W4YV ended up one and two on 10 meters both with over 100 QSOs on the band. Three years from now, the 10 meter band winners will have around 2000 QSOs!

The other single band scores are down this year as well. VA3MG beat out K2VV operating K4VX in Missouri for the 20 meter title. K6HNZ’s ears must have hurt at the end of the contest, but he pulled in third on 20 from California!

KK9A vacationed in the British Virgin Islands again this year, and once again won the DX crown on 20! John likes his Caribbean getaways—he won the world on 80 meters in 1995 from VP2MFP too! CT1DIZ took third from his sunny European location.

The low bands were pretty low too. But N7DD managed to repeat his 40 meter win with 100 less QSOs than in 1996. Larry’s QTH was just far enough south to miss some of the auroral disturbance that cramped W0UA at W0UN, who finished second. George made about 400 QSOs less than last year when he finished third!

A new face won on 80! N1GLG amassed 400 QSOs on a tough band that is dominated by a few other New Englanders. He was followed by KB3AFT at WA3FET, who was right there, just couldn’t make up the QSO difference obtainable from Vermont versus Pennsylvania.

160 meter scores were way down around the world, as W4ZV knows very well. He had the patience to squeeze out 37 countries and

### Top Ten

DX Single Operator, QRP, Phone	Score	DX Single Operator, Low Power, Phone	Score
F5BEG	42,525	W0GJ/C6A	4,560,624
CT1ETT	21,684	HK3JH	1,512,810
IK3SSJ	14,514	6Y5DA	1,442,364
JH1HRJ	12,852	LU2NI	1,416,240
IA0XBX	10,086	LU8HLI	991,980
K2DLM	8,352	XE3LMV	671,691
JA6UBK	5,544	LU5EWO	592,470
JA2JSF	4,830	XE2DN	571,482
JR4DAH	3,477	VP2V/K1DW	496,470
YU1KN	2,760	LU4DFH	484,260

win from the domestic side. The DX stalwarts winning the world were EA8ZS on 160 with his excellent signals over the ever-present 9A2TW. On 80, YV5NNW ran the masses all night to complete almost 1400 QSOs and beat out fellow South American HC1HC for the title. And on 40, 9Y4VU maxed-out the band to win over a terrific Pacific Island score from AH8A. It's great to hear AH8A back on the bands after a several year hiatus.

Interestingly, the QRP and low power all-band scores from W/VE were the only categories to have better winning scores than last year! Another new winner emerged in the QRP world as KC6ETY made over 400 QSOs from Long Island to beat out AA2U and N1AFC. This score is quite an accomplishment considering it beat AA2U's 164k in 1996, with 1997's crummy conditions. F5BEG moved up from number three in '96 to win the world QRP title!

WA4ZXA put together a terrific score of 820K to win the low power crown. Jim more than doubled his score from 1996 while soundly waxing his competitors K2SG and K8PO. Jim, a retired fireman, is a true competitor and just loves to "contest like race car driver Dale Earnhart drives—belly to the ground!" Jim also commented on his huge score increase: "It was due to the new tower. Going from a tribander at 40 feet to monobanders at 80 feet will make a difference. I am a firm believer that it is the antennas that count. It doesn't help to put a big signal into a wire, but you can put a small signal into a big antenna and get results. When I was at Dayton in 1995, I saw where the top QRP guy, AA2U was giving a presentation, and I wanted to know how he racked up such great scores using QRP. Well, after looking at his slides showing great antennas

### Top Five

DX Single Operator Assisted, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
PY2EX	1,405,314	0/0	2/2	262/46	884/56	852/56	319/42
LU7HLF	1,050,048	0/0	0/0	231/46	757/53	421/47	414/46
PY2KC	565,803	0/0	104/33	333/42	0/0	801/51	45/21
S54ZZ	513,354	0/0	68/22	209/34	908/56	92/22	0/0
F5NBX	476,760	0/0	90/26	67/18	710/55	293/38	0/0

DX Multioperator Single Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
8P9JA	6,800,493	248/46	807/57	1654/58	2367/59	2335/59	120/22
PJ9G	5,923,872	257/48	700/57	1075/58	2007/59	2209/59	184/26
VP5A	5,372,046	285/46	1114/57	1080/58	2105/59	1315/55	110/23
VP9ID	5,186,394	261/35	1052/57	1105/55	1755/59	852/50	957/33
ZF2FT	5,005,944	201/36	873/56	1056/57	2277/58	1528/57	89/13

DX Multioperator Two Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
6D2X	8,365,392	400/53	1717/60	2360/60	3845/60	886/52	56/16
WP2Z	7,580,181	231/39	1327/59	1965/59	2836/58	2331/58	53/16
EA9IE	145,008	0/0	0/0	0/0	188/37	448/39	0/0

DX Multioperator Unlimited Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
V26B	9,562,776	444/52	1282/57	2176/58	3209/60	2938/58	135/28
XE2DV	5,495,325	412/51	1152/59	1783/60	2506/60	807/44	1/1
LU4FM	3,533,928	1/1	3/3	757/54	1366/58	1791/60	1226/53
KP4VA	1,706,010	0/0	100/31	496/50	779/54	1617/54	1/1
9A1A	1,518,075	64/17	392/38	552/41	1214/60	373/39	0/0

### Top Ten

W/VE Single Operator Assisted, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
K12M	1,837,260	63/36	255/67	197/67	1013/108	174/66	30/10
KE3Q	1,658,580	34/26	95/51	215/72	836/108	279/83	92/19
K3VWV	1,562,880	43/35	126/58	133/63	926/107	214/77	38/12
AA1K	1,505,898	52/37	77/50	181/70	905/105	179/77	28/14
K2BUJ	1,327,020	47/33	102/49	161/60	656/101	255/77	80/20
N2RM	1,135,380	32/21	117/45	129/57	631/87	319/79	42/9
N3RR	1,054,272	31/25	86/48	127/63	520/93	251/74	73/20
N2MM	993,744	25/23	75/45	118/59	637/100	193/74	24/8
N4ZC	983,547	20/17	107/49	115/58	310/86	438/80	71/19
N8TR	746,415	21/17	86/52	135/63	456/88	151/58	24/7

### Top Five

W/VE Multioperator Single Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
KY2J	1,432,782	44/34	214/64	144/61	810/99	166/69	35/11
WA2VUY	1,195,428	30/21	109/54	150/60	745/100	198/71	33/10
NE3F	1,027,170	25/21	89/46	152/61	625/95	196/70	43/10
NC6M	864,633	2/1	63/33	350/41	487/x87	468/44	9/3
K5KG	836,256	15/14	73/41	137/60	537/93	170/62	60/11

W/VE Multioperator Two Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
KC1XX	3,925,308	54/35	370/75	398/86	1707/127	412/96	63/17
W2PV	3,128,280	51/35	245/66	367/79	1638/123	231/78	88/17
K1NG	2,940,690	57/36	260/68	365/83	1252/117	352/94	76/17
N2NT	2,936,508	83/42	206/65	210/85	1257/122	337/93	96/21
N3RS	2,889,843	55/37	244/66	366/85	1108/115	440/94	86/22

W/VE Multioperator Unlimited Transmitter, Phone	Score	160	80	40	20	15	10
Call Sign	Score	160	80	40	20	15	10
W3LPL	5,069,670	80/44	437/88	489/96	1903/134	451/99	125/26
K1KI	4,330,953	88/44	375/79	409/85	1825/133	378/93	126/17
K3LR	4,016,205	55/32	350/86	468/94	1562/138	353/96	91/19
W4MYA	2,670,036	57/38	135/60	298/81	1210/116	430/94	73/15
W3EA	1,936,620	45/33	148/60	202/67	968/108	301/86	79/17

### W/VE Region Leaders

Boxes 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/Yukon Sections)		
KC6ETY	211,869	A	N1CWR	75,264	A	N9SXT	66,330	A	KA5PVB	14,418	A	N7VY	84,744	A
AA2U	196,212	A	K4HQ	60,270	A	WA8AGH	42,042	A	K5OI	1,125	A	W7YAQ	83,385	A
N1AFC	112,014	A	KT4RG	1,173	A	N8XA	27,348	A				N6AZR	64,860	A
K2PS	103,044	A										W6CN	48,174	A
N1TM	76,935	A										W8QZA/6	33,456	A
K2SG	623,700	B	WA4ZXA	819,534	B	N9JF	223,020	B	WD5K	204,624	B	W7BNM	310,944	B
K8PO	583,050	B	N4DL	262,728	B	N9VVV	166,473	B	AC0W	193,887	B	WN6K	165,750	B
W2TZ	338,142	B	W04O	241,605	B	W9AU	157,680	B	N5RXF	87,348	B	N6JM	94,446	B
NA2U	290,265	B	K4CSB	196,212	B	VE3STT	82,830	B	VE5SF	58,176	B	K6UM	86,913	B
NY3Y	266,490	B	WA1EHL	165,240	B	N8GI	70,620	B	WA5IYX	53,016	B	KE6BUM	80,223	B
K5ZD (W2SC,op)	2,283,816	C	K4AB	1,208,004	C	VE3EJ	1,449,180	C	K5RX	613,053	C	W7AT (W7EW,op)	866,700	C
N6BV	1,694,628	C	N4VJ	962,290	C	W9RE	1,259,646	C	K5YAA	297,228	C	K6GX (K5RR,op)	602,886	C
K3ZO	1,544,103	C	K4YYL	680,358	C	WB9Z	1,178,880	C	W0GG	267,624	C	N7TT	524,547	C
W3BGN	1,538,718	C	N4UH	641,574	C	VE3XN	323,118	C	KG0ZI	226,848	C	W7EB	337,260	C
VO1MP	1,246,329	C	N8PR	565,812	C	VE3KPU	316,251	C	K5DDS	182,559	C	W6TKF	300,186	C

WVE Single Operator, High Power, Phone									
Call Sign	Score	160	80	40	20	15	10		
K5ZD (W2SC,op)	2,283,816	45/29	253/64	288/72	1465/114	127/55	35/10		
N6BV	1,694,628	33/27	222/55	197/64	1443/102	74/31	20/5		
K3ZO	1,544,103	21/18	151/52	208/61	1175/105	156/53	22/8		
W3BGN	1,538,718	55/36	124/48	200/60	1005/103	193/62	42/8		
VE3EJ	1,449,180	26/20	82/44	123/52	1181/100	206/65	42/10		
W9RE	1,259,646	23/17	92/46	135/52	794/98	313/70	52/15		
V01MP	1,246,329	25/24	140/51	200/55	1021/87	147/54	0/0		
K4AB	1,208,004	20/16	94/47	194/65	760/94	250/58	61/12		
WB9Z	1,178,880	27/21	87/47	186/68	781/98	183/68	16/5		
AA1ON	1,062,864	36/26	76/36	123/50	905/88	157/52	46/12		

WVE 160	WVE 80	WVE 40	WVE 20	WVE 15	WVE 10
W4ZV 12,420	N1GLG 90,552	N7DD 131,670	VA3MG 283,128	W4WA 118,164	W5AJ 6,900
KN2T 7,104	WA3FET 75,075	W0UN 44,958	K4VX 249,312	K4JO 102,090	W4YV 5,304
W2VO 5,508	(KB3AFT,op)	(W0UA,op)	(K2VV,op)	N5LT 74,358	W5ZO 4,590
AA4MM 4,950	W2LU 16,464	VE1JF 32,214	K6HNZ 158,364	K6VI 53,100	K0WUI 4,128
KA2CDJ 3,132	K9IDQ 3,078	W5WUW 30,576	W7FP 111,606	N4CT 52,998	N4BP 3,852
AB1U 855	K7LUH 2,622	KF9YT 24,795	W9SMC 110,538	WA2QNW 44,505	W3EP 2,028
W2FCR 420	WX8S 2,325	W2CG 21,948	(K9IG, op)	K3JGJ 28,143	K1DI 1,419
	K7ABV 2,178	W3TMZ 20,280	VA3WTO 102,168	KF8K 27,552	KV5N 810
	VE7YJ 1,125	KZ2I 18,300	K7ZZ 97,644	W9GIL 23,520	N2QWR (N/T) 594
	N8LIQ 360	W6BCQ 17,550	AA7UN 94,080	WA1FCN 21,450	WB0GFV 567
	AA4WX 3	W4JKC 17,136	W9OF 73,341		
			WF1L 58,275		

DX Single Operator, High Power, Phone									
Call Sign	Score	160	80	40	20	15	10		
P40V (AI6V,op)	6,136,284	277/49	629/57	932/56	2254/58	2321/59	228/29		
FS5PL (EA3NY,op)	3,888,768	61/22	868/54	855/55	1936/59	1528/57	0/0		
V47KP (W2OX,op)	3,443,526	188/38	451/55	1060/53	1458/58	1285/57	7/4		
NH7A	3,079,125	109/36	362/52	1414/58	1441/56	604/48	95/5		
OA4SS	2,698,920	0/0	146/38	522/52	1004/60	1513/60	385/42		
PJ9JT (W1BIH,op)	2,678,580	155/37	400/53	448/52	807/57	1266/54	159/23		
PY4OY	1,285,956	0/0	5/5	237/45	600/53	1255/58	171/28		
CT8T	1,194,669	47/16	310/38	375/37	883/54	492/44	0/0		
OK1RF	1,089,816	56/19	144/27	349/38	1141/58	306/40	0/0		
KH6BZF	965,178	4/3	253/42	453/45	642/42	486/40	1/12		

DX 160	DX 80	DX 40	DX 20	DX 15	DX 10
EABZS 8,100	YV5NNW 238,554	9Y4VU 324,087	VP2V/KK9A 634,680	LU6ETB 701,988	LU1BR 240,240
9A2TW 4,845	HC1HC 131,334	AH8A 250,101	WH6CQH 373,632	ZZ9A 558,333	LU3FZW 168,480
S54DL 4,104	YV4FZM 106,095	KH6FKG 189,750	CT1DIX 323,100	(PY5CC,op)	ZY2Y 155,193
S57M 1,548	ON4UN 80,040	CO3ZD 179,208	YV5LIX 310,938	ZX5J 527,991	PP5UB 138,180
4N7ZZ 1,470	V44NK 77,376	LU4D 134,460	GI0UJG 289,140	(PP5JR,op)	CX8CP 129,168
EA1DVB 570	I4AVG 49,323	(LU4DXU,op)	DF9ZP 271,260	LT1F 404,280	LU4VZ 111,618
	TM6P 35,100	S53M 124,950	GW4BLE 269,376	(LU1FKR,op)	CE6SAX 107,865
	(FSMZN,op)	(S55OO,op)	LP5H 267,960	VP2VF 361,032	LU6MFD 93,600
	JH5FXP 31,302	I13T 77,973	(LU1HOO,op)	LU4HAW 358,071	LU6EQG 89,352
	OT7L 20,988	(IV3TAN,op)	ZV8C 264,060	(LU3HIP,op)	LU8DXJ 86,019
	HG1S 20,460	9A7A 66,825	(PW8CZ,op)	HC1OT 355,860	
	(HA1TJ,op)	(9A3TR,op)	IR2W 249,747	YV5NWG 326,565	
		EA1DLU 65,745	(IK4MTF,op)	HP2N6NT 262,485	
		YT7A 51,987		KP2/W0MU257,904	
		(4N7DW,op)			

I knew that was the way I was going to go. I am a blood and guts contester—I compete fairly but I don't do anything halfway." Jim runs an FT990 to five elements on 15 and four on 20, with wires on the low bands in addition to his original tribander at 40 feet. We can all look at Jim's effort and appreciate the competitive drive that he has. Look for an expanded profile of ZXA in a future issue of the *National Contest Journal*.

The DX low-power winner, with a total runaway score, was from Glen, W0GJ/C6A. Glen, fresh returned from "tropical" Heard Island obviously needed some more beach time to recover from his earlier vacation! Second place was a close battle between last year's winner 6Y5DA and LU2NI. Europe's leader was EA5DFV who managed nearly 1300 QSOs.

With the amps "cookin" Carl Cook, P40V, knocked out the win for the world single-op title after 6600 QSOs. Carl had nearly the same score as last year when he finished fourth. Nice job Carl and thanks for the mults. FS5PL (operated by EA3NY) snagged second with a 5200 QSO tally while NH7A sported the new call to finish an impressive fourth. CT8T led the Europeans and finished eighth worldwide. Southwestern Europe was the place to be from that continent in '97.

From stateside, W2SC climbed out of the hole at the helm of K5ZD/1 and earned first

place in the tough single-op all band category. After a hard fought second place last year, Tom worked hard to keep a commanding lead over N6BV/1 and K3ZO—no easy task. W9RE headed up the Black Hole contingent while W7EW sung W7AT to an impressive 1350 QSOs from the Pacific Northwest!

The guys with packet made a racket and K1ZM added five other bands to his 160 meter kingdom to beat KE3Q and K3WW. The assisted category is big in South America too as PY2EX beat LU7HLF, both with scores over 1 million!

Multi-single was a blast in '97. Conditions were right for one transmitter action so K4MA and AA4NC put 8P9JA into the number one spot. These guys were very evident all weekend, making good choices of running band and propagation. They beat out '96's number three finisher PJ9G and this year's VP5 gang signing VP5A. Farther away, the KH7R crew made almost 4700 QSOs while TM1C led the pack from the Old World.

In the battle for domestic multi-single champion, KY2J's crew moved up from number three in '96 to first place this year. Out the Black Hole way was N0NI's tower-infested station, and further west NK7U made no errors in winning the west.

The talented and none-too-worse-for-the-wear crew of Ws, Ks, XEs and Ns staffing 6D2X challenged the high noise levels to win

## Affiliated Club Competition

	Score	Entries
<b>Unlimited Category</b>		
Frankford Radio Club	139,419,582	170
Yankee Clipper Contest Club	131,740,371	187
*Potomac Valley Radio Club	58,213,623	96
<b>Medium Category</b>		
North Coast Contesters	21,899,502	17
Society of Midwest Contesters	19,694,448	36
Northern California Contest Club	18,384,300	30
Willamette Valley DX Club	12,281,409	8
Salt City DX Assn	9,649,131	19
North Texas Contest Club	8,616,561	21
Florida Contest Group	8,567,616	13
*Southeastern DX Club	7,558,227	9
*Mad River Radio Club	7,097,787	17
Southern California Contest Club	6,287,685	18
Tennessee Contest Group	4,826,799	11
*Carolina DX Assn	4,438,974	18
Southern California DX Club	4,150,479	14
Western Washington DX Club	4,012,128	23
*Minnesota Wireless Assn	3,836,892	9
Texas DX Society	3,203,040	9
Rochester (NY) DX Assn	3,154,989	14
Grand Mesa Contesters	1,917,156	8
Kentucky Contest Group	1,790,499	10
Order of Boiled Owls of New York	1,628,499	4
*Central Arizona DX Assn	1,525,248	13
Mississippi Valley DX/Contest Club	1,487,301	9
Northern California DX Club	1,270,344	13
Western New York DX Assn	1,181,046	12
Mother Lode DX/Contest Club	782,832	12
*Kansas City DX Club	752,826	5
*California Central Coast DX Club	665,970	6
Eastern Iowa DX Assn	604,929	6
*Weekend Warriors	550,788	7
South Jersey Radio Assn	431,988	14
Northern Arizona DX Assn	398,985	6
*North Jersey DX Assn	319,659	4
*Ozaukee Radio Club	301,650	3
Genesee County Radio Club	274,128	3
Fox River Radio League	262,536	4
*North Alabama DX Club	241,674	3
Providence Radio Assn	202,587	3
*Northrop Grumman Radio Club	174,048	5
*Schenectady ARA	121,317	3
Indian River ARC	91,221	15
*Carbon ARC	63,483	3
<b>Local Category</b>		
Hudson Valley Contesters and DXers	6,625,176	10
River City Contesters	3,039,150	6
*Central Texas DX and Contest Club	1,115,583	6
Great Falls Area ARC	839,508	5
*South Florida DX Assn	735,975	4
*Albany ARA	548,133	3
Western Illinois ARC	477,987	6
North Shenandoah DX Assn	400,953	3
CT RI Contest Group	306,522	3
*Sterling Park ARC	240,927	3
West Park Radiops	160,773	9
American Red Cross Emergency Comm	120,498	5
AK-SAR-BEN	116,943	6
East Coast DX Assn	84,225	3
Roanoke Valley ARC	75,438	3
Hamfesters Radio Club	65,094	5
Metro DX Club	35,238	4

\*denotes club eligibility list not received.

the multi-two class. Not far behind was the group without the tequila at WP2Z. The battle in the US was close—after KC1XX (repeat winner from '96) and the W2PV memorial station take spots one and two! Only 150k points separated numbers three through eight! That's fun! Keep it up! KS9K led the near west despite being able to reach out and touch the aurora.

What would multi-multi be like without W3LPL? Frank's crew slugged out another win to go with their titles from 1996, '95, '92, '91, '90, '89, and '88. They slipped to second place in '94 and '93. There is improvement down lower too as K1KI took second, K3LR finished third, and W4MYA moved up a slot to fourth in '96. A group of 9s and 2s put on a show from V26B, beating the 10,000 QSO mark and distributing lots of points to their respective contest clubs.

Next year dare I say conditions will be better? They have to be, don't they? (A special thanks to Assistant Contest Manager Bev Hernandez, N1NAV.)





<b>North Carolina</b>										<b>Eastern Washington</b>										<b>WA9PYH</b> 192 8 1 C 20										<b>K2BU</b> 1,327,020 1301 340 C										
<b>K4HQ</b>	60,270	205	98	A	<b>K5DDS</b>	182,559	403	151	C	<b>K7UK</b>	990	22	15	B	<b>Wisconsin</b>										<b>N2RM</b> 1,135,380 1270 298 C															
<b>WA4ZHL</b>	819,534	997	274	B	<b>K5SAK</b>	94,428	244	129	C	<b>Idaho</b>					<b>NG9L</b>	49,413	181	91	B	<b>N2MM</b> 993,744 1072 300 C										<b>W1GD</b> 792,544 792 293 C										
<b>WA1EHL</b>	165,240	340	162	B	<b>K5UCV</b>	11,466	78	49	C	<b>KE7RT</b>	5,850	78	25	21	B	<b>AA9TB</b>	11,925	75	53	B	<b>W2VT</b> 509,952 664 256 C										<b>N1CC</b> 444,108 622 238 C									
<b>KB4MIL</b>	66,381	203	109	B	<b>KM5CF</b>	2,553	37	19	20	B	<b>WA0DYU</b>	94,470	335	94	C	<b>K9CAN</b>	170,100	350	162	C	<b>K2WK</b> 381,888 612 208 C										<b>K2AZ</b> 259,800 433 200 C									
<b>KR4IN</b>	29,388	124	79	B	<b>N5LT</b>	74,358	306	81	C	<b>AA7UN</b>	94,080	392	80	C	<b>W9BCV</b>	123,921	281	147	C	<b>AA2WN</b> 251,544 376 223 C										<b>KB2HUN</b> 179,712 384 156 C										
<b>WB4VIM</b>	23,391	113	69	B	<b>W5AJ</b>	6,900	100	21	C	<b>Montana</b>					<b>W9RNV</b>	50,787	171	99	12	C	<b>K2V5</b> 702,324 793 293 C										<b>K2ZG</b> 158,005 373 195 C									
<b>KF4PEE</b>	9,360	60	52	B	<b>West Texas</b>					<b>W7WK</b>	57,018	221	86	C	<b>W9W</b>	2,346	34	23	C	<b>W2BE</b> 149,943 331 151 C										<b>K2EP</b> 149,730 322 155 C										
<b>K5LZT</b>	4,128	43	32	4	B	<b>KM5BN</b>	42,312	164	86	B	<b>K7LPH</b>	40,824	168	81	C	<b>W9H</b>	11,952	83	48	B	<b>N2QLT</b> 132,741 301 147 C										<b>K2FL</b> 109,800 300 122 C									
<b>N4UH</b>	641,574	981	218	C	<b>NZ5M</b>	1,215	27	15	11	B	<b>K7LHU</b>	2,622	38	23	C	<b>W9GIL</b>	23,520	160	49	C	<b>N2VW</b> 93,150 230 135 C										<b>K2BM</b> 85,248 222 128 C									
<b>AA4NC (KS4XG,op)</b>	429,243	719	199	C	<b>W5ZO</b>	4,590	85	18	C	<b>K7ABV</b>	2,178	33	22	C	<b>N2JUN</b> 61,311 191 107 C										<b>K2BX</b> 56,388 206 91 C															
<b>KO4MM</b>	265,800	443	200	C	<b>6</b>					<b>Nevada</b>					<b>N2TTT</b> 32,568 118 92 B										<b>W2WBW</b> 17,700 100 59 B															
<b>K2IBW</b>	126,825	475	89	C	<b>East Bay</b>					<b>W7EB</b>	337,260	730	150	C	<b>W2KA</b> 10,878 74 49 C										<b>W2WPM</b> 5,202 51 34 C															
<b>N4AF</b>	108,675	315	115	C	<b>KQ4CA</b>	2,109	37	19	14	B	<b>K6GNX</b>	27,300	182	50	C	<b>W2WPL</b> 25,992 114 76 15 B										<b>N3JL</b> 268,464 476 188 26 C														
<b>KC4YM</b>	40,338	166	81	C	<b>KM6OH</b>	92,880	344	90	C	<b>Oregon</b>					<b>K0BJ</b> 18,648 111 56 4 B										<b>K3AR</b> 492,288 641 256 C															
<b>W4ZV</b>	12,420	90	46	C	<b>W6FSJ</b>	23,490	135	58	C	<b>W7YAT</b>	83,385	255	219	A	<b>K1LR</b> 48,576 184 88 C										<b>K3DI</b> 468,312 632 247 C															
<b>KZ2I</b>	18,300	122	50	C	<b>KM6F</b>	2,904	44	22	4	C	<b>W7YAO (W7EUV,op)</b>	866,700	1350	214	C	<b>N1OS</b> 42,780 155 92 C										<b>K3ND</b> 464,250 619 250 C														
<b>KU4BP</b>	798	19	14	B	<b>NP4IW</b>	9,174	139	22	B	<b>K7JK</b>	40,320	210	84	C	<b>K0WUI</b> 4,128 86 16 16 C										<b>N3ZA</b> 454,119 589 257 C															
<b>North Florida</b>										<b>Los Angeles</b>					<b>K7ZF</b>	97,644	412	79	22	C	<b>Minnesota</b>										<b>AC0W</b> 193,887 387 167 B									
<b>KB4FOS</b>	27,492	158	58	30	B	<b>W7BNN</b>	310,944	632	164	17	B	<b>Utah</b>					<b>AC0W</b> 83,394 246 113 C										<b>W0WPL</b> 25,992 114 76 15 B													
<b>NX4W</b>	52,128	181	96	C	<b>W7BNI</b>	80,968	222	121	B	<b>K07X</b>	118,881	333	119	C	<b>N3II</b> 356,025 505 235 C										<b>N3YC</b> 214,200 370 193 C															
<b>AB4KL</b>	39,816	168	79	C	<b>W7BNO</b>	37,668	127	73	B	<b>AF7D</b>	100,386	338	99	C	<b>N3YQ</b> 213,840 440 162 C										<b>W3BCIW</b> 205,065 465 147 C															
<b>AD4RE</b>	31,980	130	82	C	<b>W7BNS</b>	37,668	127	73	B	<b>W7HS</b>	58,176	202	86	C	<b>K3AT0</b> 182,580 358 170 25 C										<b>K3AO</b> 163,443 301 181 C															
<b>AA4MM</b>	4,950	50	33	C	<b>W7BNT</b>	22,050	147	50	B	<b>K7XE</b>	53,667	201	99	C	<b>K3QO</b> 154,536 376 137 C										<b>K3KFD</b> 149,850 370 135 C															
<b>K4JDV</b>	9,840	80	41	C	<b>K66YF</b>	17,856	124	58	C	<b>W7GM</b>	2,058	49	14	C	<b>K3VY</b> 92,020 242 127 C										<b>K3KFL</b> 108,637 261 139 C															
<b>South Carolina</b>										<b>K66YV</b>	7,245	69	35	32	B	<b>W7GTO</b>	315	15	7	B	<b>W3VU</b> 71,940 220 109 C										<b>W3WV</b> 92,020 242 127 C									
<b>K4CSB</b>	196,212	394	166	B	<b>W7GTV</b>	23,688	143	56	C	<b>W7HT</b>	524,547	1047	167	C	<b>W3VW</b> 64,260 210 102 C										<b>W3WV</b> 92,020 242 127 C															
<b>N4GJ</b>	121,500	324	125	B	<b>N6HY</b>	3,036	46	22	C	<b>N6HR</b>	40,800	200	68	C	<b>W3WV</b> 92,020 242 127 C										<b>W3WV</b> 92,020 242 127 C															
<b>K4YVL</b>	680,538	1169	194	C	<b>W6OK</b>	13,038	106	41	C	<b>W7STA</b>	2,442	37	22	B	<b>W3WV</b> 92,020 242 127 C										<b>W3WV</b> 92,020 242 127 C															
<b>W3VT</b>	550,248	908	202	25	C	<b>KU6T</b>	9,672	104	31	B	<b>Wyoming</b>					<b>W3WV</b> 92,020 242 127 C										<b>W3WV</b> 92,020 242 127 C														
<b>W4JKC</b>	17,136	112	51	C	<b>Orange</b>					<b>N7MZW</b>	33,567	167	67	B	<b>W3WV</b> 92,020 242 127 C										<b>W3WV</b> 92,020 242 127 C															
<b>Southern Florida</b>										<b>AC6WD</b>	50,745	199	85	B	<b>K1W7</b>	35,916	146	82	9	C	<b>W3WV</b> 92,020 242 127 C										<b>W3WV</b> 92,020 242 127 C									
<b>KT4RG</b>	1,173	23	17	4	A	<b>W8BH</b>	41,184	156	88	9	B	<b>Michigan</b>										<b>W3WV</b> 92,020 242 127 C																		
<b>N4DL</b>	262,728	492	178	B	<b>W8BJ</b>	22,192	146	86	B	<b>N8GI</b>	70,620	214	110	B	<b>N8GI</b>										<b>W3WV</b> 92,020 242 127 C															
<b>W4W3A2D</b>					<b>W8BK</b>	22,192	146	86	B	<b>N8QV</b>	50,343	173	97	47	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>N1</b>	51,840	180	96	B	<b>W8BL</b>	21,375	125	57	23	B	<b>W8BU</b>	28,500	125	76	28	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>KD4ODA</b>	7,638	67	38	B	<b>W8BT</b>	73,926	222	111	C	<b>K8X</b>	13,365	81	55	5	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>N9TMM</b>	5,814	51	38	B	<b>W8BT</b>	50,922	246	69	9	C	<b>W8JY</b>	114,258	178	137	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>KM4XN</b>	5,208	62	28	16	B	<b>W8CQ</b>	10,881	93	39	7	C	<b>K8J</b>	41,472	144	96	45	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C												
<b>KN4JN</b>	756	18	14	3	B	<b>W8CQ</b>	17,550	117	50	19	C	<b>K8K</b>	28,182	122	77	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>N8PR</b>	565,812	806	234	C	<b>W8CQ</b>	4,611	53	29	7	B	<b>W8LQ</b>	3,360	12	10	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>AC4IV</b>	57,300	191	100	11	C	<b>K6VI</b>	53,100	354	50	C	<b>KB8IBS</b>	20,139	137	49	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>WA4YLD</b>	51,975	175	93	C	<b>Santa Barbara</b>					<b>Ohio</b>					<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C															
<b>W4ENZ</b>	43,750	173	83	C	<b>648AZ</b>	64,860	235	92	A	<b>W8AGH</b>	42,042	154	91	A	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C															
<b>W4GD</b>	11,550	77	50	4	C	<b>W6FGV</b>	77,172	236	109	B	<b>N8XA</b>	47,348	106	86	A	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>K1DCB</b>	9,240	77	40	7	B	<b>W7C6B</b>	20,727	141	49	B	<b>W8UPH</b>	60,075	225	89	47	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>W1KBI</b>	972	18	13	20	B	<b>W8TFC</b>	300,186	654	153	C	<b>N8XJ</b>	8,640	72	40	12	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>W2SDB/4</b>	4,683	13	12	2	B	<b>W8TFC</b>	119,268	449	149	B	<b>W8XJ</b>	8,640	72	40	12	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>N4BP</b>	3,852	107	12	9	C	<b>W8VGI</b>	45,969	199	77	C	<b>W8YD</b>	13,365	81	55	5	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>Tennessee</b>										<b>N6HK</b>	19,647	111	59	C	<b>W8ZU</b>	24,072	118	68	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C										
<b>N1CWR</b>	75,264	224	112	A	<b>K6SHJ</b>	9,120	76	40	C	<b>K8JPT</b>	23,976	111	72	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C															
<b>WO4O</b>	241,605	455	177	23	B	<b>Santa Clara Valley</b>					<b>K8KPT</b>	16,350	61	61	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>N5OR</b>	113,664	296	128	B	<b>N7OP</b>	76,146	259	98	35	B	<b>W8DWP</b>	13,050	75	58	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>KE4OAR</b>	20,592	104	66	15	B	<b>W6PLJ</b>	17,145	127	45	B	<b>W8K</b>	7,686	61	42	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>K4JHT</b>	17,700	100	59	4	B	<b>N6NF</b>	10,701	87	41	4	B	<b>W8SJU</b>	34,056	172	66	C	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C													
<b>W4NI</b>	3,267	33	23	2	B	<b>K6XX</b>	6,912	72	32	B	<b>N8QW</b>	2,346	34	23	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>W4FZR</b>	73,750	240	116	C	<b>K6GX (K5RR,op)</b>	602,886	1129	178	C	<b>K8JF</b>	44,010	163	90	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C															
<b>W4OGG</b>	24,000	100	80	C	<b>K6GT</b>	111,507	341	109	C	<b>W78P</b>	21,888	114	64	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C															
<b>KS2X</b>	13,311	87	51	3	C	<b>K6GAO</b>	64,500	215	100	C	<b>N8SSE</b>	15,996	86	62	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>AA4WX</b>	3	1	1	C	<b>K6MA</b>	15,880	52	29	B	<b>N8NDG</b>	15,480	86	60	15	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>N4CT</b>	52,998	242	73	C	<b>K6NH</b>	15,880	52	29	B	<b>N8TJ</b>	8,520	71	40	12	B	<b>N8QV</b>										<b>W3WV</b> 92,020 242 127 C														
<b>Virginia</b>										<b>K6SHJ</b>	9																													

<b>9</b>	<b>W9OP</b> 242,109 427 189 48 C	<b>NM9C</b> 86,625 231 125 C	<b>WDS9IG</b> 70,875 175 135 C	<b>K9OSH</b> 37,378 117 84 C	<b>N9YXA</b> 1,440 24 20 B
<b>0</b>	<b>N0AT</b> 79,326 234 113 C	<b>W6POZ</b> 29,808 138 72 C	<b>KB9KR</b> 27,531 133 67 47 C	<b>K9OEJ</b> 27,378 117 78 B	<b>K0CZC</b> 17,280 128 45 C 15
	<b>W8ZRL</b> 14,490 70 69 C	<b>W0IOL</b> 3,780 42 30 C			
<b>VE</b>	<b>VE3ZTH</b> 10,065 61 55 30 C				
<b>Multioperator Single Transmitter</b>					
<b>1</b>	<b>AJ1I</b> (KB1GW,KB1HY,N1JBH,N1RL,ops) 551,661 803 229 C	<b>W1BK</b> (+AI3E,K1TXH,W1NRP,ops) 326,616 439 248 C	<b>WR1X</b> (+KE1FO,N1JLP) 265,950 450 197 C	<b>W1FY</b> (+KA1S,AXY,USL,KB1BCF,K1FY,KE6DPL,N1S,BFG,DGT,ECT,ILY,YO,LOO,MQG,VAM,XAG,XAN,XYC,W 182,688 352 173 C	
<b>2</b>	<b>KY2J</b> (+KA2TIP,NA2N,W2RE) 1,432,782 1413 338 C	<b>WA2VUY</b> (+N02R) 1,195,428 1261 316 C	<b>K5KG</b> (+W6TER) 836,256 992 281 C	<b>W2RD</b> (+KB5U,KE2HG,N2UYV,W2s HCA,XT,WAZ2IWI) 691,749 761 303 C	<b>N2HT</b> (+KB2VJ,UD2I,KN2T) 574,560 855 224 C
	<b>N2SA</b> (+KE2SD) 538,098 682 263 C	<b>W2XL</b> (+KB2EEU) 272,208 428 212 C	<b>K2DS</b> (+WA2JQK) 232,824 436 178 13 C	<b>N2LBR</b> (+W1AKKM) 217,743 401 181 C	<b>W2YC</b> (+N9GG) 150,213 311 161 C
	<b>AB2DE</b> (+KB2IZB,KC2s ADW,AVE,N2KPB) 107,712 272 132 30 B	<b>N2JX</b> (+KF2ER,N2NSM) 80,385 233 115 38 C	<b>W2HC</b> (KB2s COM,PD,KD2IN,KF2XO,N2BHO,W2s GW,III,JSF,UL,ops) 29,240 115 57 30 C	<b>K2VK</b> (KA2ANF,KB2MER,WB2RQX,ops) 21,735 115 63 C	
<b>3</b>	<b>NE3F</b> (+AA3AO,K3SF,KT3T) 1,027,170 1130 303 C	<b>K3MD</b> (+N3S,NWN,PUR) 469,044 663 236 C	<b>KB3TS</b> (+K3RR) 431,577 607 237 C	<b>W3USS</b> (K3s ZB,ZJ) 332,682 623 178 C	<b>N3BNA</b> 300,768 416 241 C
<b>4</b>	<b>K4FCC</b> (K4LO,N4TO,W4s FDA,OX,WB4EYs,ops) 830,466 1014 273 C	<b>W5HVV</b> (+ops) 544,419 753 241 C	<b>W4PRO</b> (+K04MR,W5CNJ) 441,504 584 252 C	<b>W4SMG</b> (+AE4CL,KO4PA,WA4FOT,KE4ART,NW6S,N4XFT,KD4RAM) 310,527 477 217 C	<b>W4NC</b> (KD4ER,KE4TES,N0TKY,WB4KQ,ops) 247,752 372 222 C
	<b>W4RJ</b> (+N4GDQ) 190,905 445 143 C	<b>K4OJ</b> (K1KN,K4OJ,KR4YL,ops) 188,136 804 78 B	<b>K4UK</b> (+KF4LD) 101,304 252 134 28 B		
<b>5</b>	<b>W5WP</b> (+K5N,ZK5JAZ,W5IRV) 255,210 470 181 C	<b>K5OY</b> (+AB5SE) 196,020 396 165 34 B	<b>W5ANR</b> (K5JUC,K5CFR,K5Gs KU,QS,W5s JAY,JE,NF,OZL,WB5OF,ops) 110,880 264 140 C	<b>WW5DX</b> (K5KA,K7UP,KN5H,ops) 42,312 164 86 C	<b>K5SORP</b> (+ops) 1,056 22 16 15 B
<b>6</b>	<b>NC6M</b> (NC7M,W6REC,ops) 864,633 1379 209 C	<b>W6EEN</b> (+K6XC,K7WXX,N7QO,W6ORD) 574,740 930 206 C	<b>N6KI</b> (+K6AM,KE6WEO,KM6WF,N2UE,N6UZH) 460,356 908 169 C	<b>K6YS</b> (+K6S,GT,N6TDM) 259,248 491 176 C	<b>N06X</b> (+N06X,W6WRs,W6OZD) 171,390 394 145 35 C
	<b>AC6LK</b> (+K6VVA,KB6s PTL,PYL,KD6HMJ,KE6YNR,KF6AHO,KO6LX,N7FF,W6MUG) 58,674 254 77 C				
<b>7</b>	<b>NK7U</b> (+K7ZO,N7BZ,W7ZRC,ops) 715,686 1181 202 C	<b>K9J7F</b> (+AB7RW,JAZED,KR7X,ND7P) 296,298 558 177 C			
<b>8</b>	<b>W9LT</b> (+K8OQL) 729,819 977 249 C	<b>N8NR</b> (+N8BJ,N9AG) 719,901 819 293 C	<b>W8ZA</b> (+W8DNL) 364,428 573 212 C	<b>AA8UA</b> (+AA8BN) 139,104 288 161 25 C	<b>KG8NJ</b> (KB8QGV,KC8CUD,KG8NF,KG8X,ops) 127,872 296 144 36 C
	<b>W8YY</b> (KB8POR,KB8PU,N9LMMW,ops) 363 11 11 5 C				
<b>9</b>	<b>W0AIH</b> (+NE9U,AA0ZZ,N0AXL,N9ISN,N9TFC,AA0OC,UN7QF,K9MA,KB0VRV) 767,016 954 268 C	<b>N1HRW</b> (+N09Z) 451,008 648 232 27 C	<b>WN9O</b> (+K9DAL) 131,652 318 138 C	<b>W09S</b> (+W9BJNZ) 112,590 278 135 C	<b>N9THC</b> (+N9TZZ) 91,392 238 128 B
	<b>N9LCR</b> (+AA9GG) 83,709 213 131 C	<b>KF9IF</b> (+K9NRN) 68,187 191 119 C	<b>KW0L</b> (+N9HT,N9RZR,KG9JO) 21,420 119 60 C		
<b>0</b>	<b>N0NI</b> (+K0KD,N0AC,W0FLS,WA0ETC,W0Q0V,807,672 222 48 C	<b>N0ZA</b> (+K0s,CL,UK,KAGIZT,KB0WLK) 559,440 888 210 C	<b>KF0GV</b> (+KA3VZD,N0LWJ) 236,181 421 187 40 C	<b>N0MA</b> (K0s DAS,VAR,VM,KA0IES,KD9KX,N0LNO,N0H,ops) 141,036 322 146 C	<b>K0ZM</b> (+K0BVU,KB0ISS,WA0CLR) 85,305 235 121 C
	<b>N0RUV</b> (+K8OVQC) 13,860 84 55 30 C	<b>W0SW</b> (+AF0SS,K0IUC,KB0RMS,N0s,GCN,ZJH,W0AB,WA0NQH) 4,032 48 28 11 B			
<b>VE</b>	<b>VE3VM</b> (VA3UFF,VE3s RGD,SJR) 3,534 38 31 B	<b>VE6SV</b> (+VE5FN,VE6NAP,VE7TCP) 272,688 598 152 C	<b>VE7NA</b> (VE7s,CL,RD,GDE,JLO,VFM,ops) 14,100 100 47 24 B	<b>VE8RCS</b> (+ops) 16,113 131 41 C	
<b>Multioperator Two Transmitters</b>					
<b>K1CX1</b> (+K1LZ,K5ZD,KC1F,KM3T) 3,925,308 3001 438 C	<b>W2PV</b> (K2ONP,TR,XZ,XW,KD2RD,NF1F,ops) 3,128,280 2620 398 C	<b>K1NG</b> (+AA1AA,K1s SD,VR,K11G) 2,940,690 2362 415 C	<b>N2NT</b> (+N2NUJ,W2s GD,RO,WW2Y) 2,936,052 2297 428 C	<b>N3RS</b> (+N3s,ED,RD,W3UM) 2,889,843 2299 419 C	<b>VE9AS</b> (+VE9S,BM,DH,DJ,NJ,WH) 2,825,085 2845 331 C
<b>W1FJ</b> (+K1XM,N1BB,NB1B,W1KM,WA1QGC) 2,793,096 2316 402 C	<b>W2XX</b> (+KE2ZT,XW2SP) 2,791,308 2468 377 C	<b>K59K</b> (+K5s AU,GS,JK,NW,WE9V) 2,214,135 1917 385 C	<b>K12D</b> (K1s RO,ZZ,KA12D,N1RR) 1,956,768 1744 374 C	<b>K8AZ</b> (+K8s BL,NZ,MR,KG8TS,N8AA,ND8L,N8L,W8s GN,KIC,WT8C) 1,845,298 1688 364 C	<b>W3GNO</b> (+K3s LP,SK,E,N3OC,ND3A,WI2T,WR3Z) 1,437,426 1401 342 C
<b>K1RX</b> (+K1s PJ,OZ,SR,KF1V) 1,385,100 1350 342 C	<b>K8XL</b> (+WA8ZDT) 1,353,024 1392 324 C	<b>K1W1</b> (+N8RFM,W1CSM) 1,351,080 1390 324 C	<b>KB1S0</b> (+K1ZR) 1,317,600 1525 288 C	<b>KB1H</b> (+AA1CE,K1EBY,W3TB) 1,301,157 1287 337 C	<b>W3PP</b> (+N6ZO,NW3Y,NX3J) 1,151,955 1219 315 C
<b>AA3JU</b> (+AA3MY,KZZZ,N3GS) 1,062,810 1205 294 C	<b>K4VUD</b> (+KF4EJU) 951,039 1263 251 C	<b>K2KV</b> (+K2DO,KS2G,N2GA,WM2V) 836,304 1048 266 C	<b>N1MD</b> (+K21M,KA12NZ,K1ZE) 821,655 961 285 C	<b>W1QK</b> (+AA1MY,KZZZ,N3GS) 667,233 833 267 C	<b>VE6JY</b> (+VE6s AQE,BF,DGG,FR,LDX,MK,SLV) 336,420 623 180 C
<b>W7TT</b> (K7FR,N7AU,ops) 278,361 591 157 C	<b>K4WZ</b> (AD,Q4B,K4WZ,KS4CT,KT4CD,WB2NYM,ops) 237,168 432 183 38 B	<b>KCA4UF</b> (+K1s BDO,BD,OZE,KQ4RH,KS4RX,KT4KE,KT4KM) 162,846 327 166 30 B			
<b>AC6TK</b> (+KE61HF,W6BPS,WA6UVW) 13,095 97 45 24 B					
<b>Multioperator Unlimited Transmitters</b>					
<b>W3LPL</b> (+AI3M,K1s HTV,RZ,K3s MM,MQH,RA,RV,KD4D,N5DKR,W3UR,WM2H) 5,069,670 3470 487 C	<b>K1KI</b> (+K1s CC,PI,KM1P,KO2M,NQ1K) 4,330,953 3201 451 C	<b>K3LR</b> (K3UA,K8s CX,GL,K43sJFI,JWJ,NZC,N3RA,N8SM,N9RV,W3s GH,YO) 4,016,205 2879 465 C	<b>W4MYA</b> (+AD4TS,KB4DI,KD4JXY,KI4GM,K4JVG,N4EHJ,WA4DAI,WB4GVZ,W4UG) 2,670,036 2203 404 C	<b>W3EA</b> (+K3s NW,OX,N3ID,W3FV,WB3s FIZ,LFZ) 1,936,620 1740 371 C	<b>N1TU</b> (AA1OK,KT1T,K2WR,KB1W,N1NYD,NU1P,W1VE,WA1ZAM,WI2Q,ops) 1,862,580 1678 370 C
<b>K3EST</b> (+AE0M,KZKW,N6RO,W6BSY) 1,572,785 2001 262 C	<b>W3MM</b> (+N2TK) 1,363,635 1295 351 C	<b>K3ANS</b> (+K3YD,N2EA,N3IYX,N3TUI,N9GG,N3WY,WORSJ/3) 1,317,528 1262 348 C	<b>K3II</b> (+K3s CT,PP) 1,299,864 1321 328 C	<b>K1KP</b> (+K1OA,KB2R,WA1S) 1,064,712 1199 296 C	<b>N1AU</b> (+AA1IZ,K1EFP,NY1L,W1RV) 868,185 981 295 C
<b>K1GW</b> (+W6PH) 411,930 690 199 C	<b>N3BNA</b> (+ops) 300,768 416 241 C	<b>K3BSA</b> (K3JL,N3NMP,ops) 150,240 313 160 C	<b>N7VVI</b> (+W7ACC) 37,590 179 70 C	<b>VE6ZA</b> (+VE6s JAG,JKB,RSS,ZA) 5,103 63 27 C	
<b>DX Single Operator</b>					
<b>Africa</b>					
<b>Nigeria</b> 5N7YZC 45,951 289 53 B	<b>Uganda</b>				
<b>5X4F</b> 351,168 944 124 C	<b>Ghana</b>				
<b>9G5BQ</b> (PA3GBQ,ops) 53,730 398 45 C 20	<b>Sierra Leone</b>				
<b>9L1MA</b> <b>95,046</b> <b>434</b> <b>73</b> <b>B</b>	<b>Botswana</b>				
<b>A25/HANX31,584</b> <b>224</b> <b>47</b> <b>B</b>	<b>Morocco</b>				
<b>CN8BG</b> 6,660 111 20 B 15	<b>Canary Islands</b>				
<b>EA8KL</b> 39,042 241 54 C	<b>EA8ZS</b> 8,100 90 30 C160	<b>EA8KK</b> 95,778 626 51 C 20	<b>Sao Tome &amp; Principe</b>		
<b>S92YL</b> 15,225 175 29 3 C 15	<b>Ascension Island</b>				
<b>ZD8BEZ</b> 52,260 335 52 C 20	<b>Asia</b>				
<b>West Malaysia</b>					
<b>9M2OM</b> 10,260 180 19 C 40	<b>9M2TO</b> 18 3 2 C 40	<b>9M2MC</b> 1,350 45 10 6 B 20	<b>Armenia</b>		
<b>EK4JY</b> 480 16 10 B 20	<b>South Korea</b>				
<b>DS18HE</b> 2,898 69 14 B	<b>Saudi Arabia</b>				
<b>7Z50O</b> (K3UOC,op) 864 24 12 C	<b>Japan</b>				
<b>JH1HRJ</b> 12,852 119 36 A	<b>JA2DLM</b> 8,352 87 32 A	<b>JA6UBK</b> 5,544 77 24 A	<b>JA2J5F</b> 4,830 70 23 A	<b>JR4DAH</b> 3,477 61 19 A	<b>J15BK</b> 360 24 5 3 A
<b>JJ1VRO</b> 41,085 249 55 B	<b>JA2BY</b> 21,996 156 47 B	<b>JK3WCV</b> 18,900 176 30 B	<b>JL4IOU</b> 16,974 138 41 B	<b>JR4PMX1</b> 12,384 129 32 9 B	<b>JA1GYO</b> 9,792 102 32 B
<b>JR1MRG</b> 9,324 116 28 7 B	<b>JH0EPI</b> 6,864 104 22 B	<b>JA1BUJ</b> 5,913 73 27 B	<b>JG2REJ</b> 4,212 52 27 B	<b>JR9NVJ</b> 903 43 7 B	<b>7N2UO</b> 891 27 11 B
<b>7N1JABD</b> 528 22 8 B	<b>JH8KYUJ</b> 396 22 6 1 B	<b>JR1MRG</b> 234 13 6 B	<b>JA8TEZ</b> 234 13 6 B	<b>JA1AAT</b> 60 5 4 B	<b>JK8HOS</b> 60 5 4 B
<b>JH7DNO</b> 516,312 1704 101 C	<b>JA1ELY</b> 480,246 1222 131 C	<b>JR5JAQ</b> 412,674 1262 109 C	<b>JH4LYB</b> 371,280 1190 104 C	<b>JH7AFB</b> 280,440 984 95 C	<b>JH4NMT</b> 109,548 537 68 36 C
<b>JA1CG</b> 96,957 513 63 9 C	<b>JA2BNN</b> 61,776 396 52 C	<b>JA7BEW</b> 46,800 325 48 C	<b>JA2BAO</b> 20,790 154 45 C	<b>JA3ACE</b> 4,116 49 28 C	<b>JR0WZR</b> 3,528 56 21 C
<b>JR3UUS</b> 2,184 52 14 C	<b>JH5FXP</b> 31,302 292 37 C	<b>JH6JLW</b> 7,290 135 18 C	<b>JH1SPY</b> 18 3 2 B	<b>JR7OMD/2</b> 2,409 73 11 B 40	<b>JA5IP</b> 165 11 5 C 40
<b>JA3MXP</b> 156 13 4 B 40	<b>JG1TVK</b> 120 8 5 B 40	<b>JA3WFK</b> 36 4 3 B 40	<b>JA4VRN</b> 30 5 2 B 40	<b>JG1RDV</b> 12 2 2 B 40	<b>JK8FRL</b> 12 2 2 B 40
<b>JA7YFB</b> (JM1HBO,op) 124,578 769 54 C 20	<b>JR3NZC</b> 122,553 801 51 C 20	<b>JA7BJS</b> 119,658 814 49 C 20	<b>JH7XGN</b> 100,368 656 51 C 20	<b>JR1GSE</b> 75,411 519 47 C 20	<b>JR2DOL</b> 67,206 487 46 C 20
<b>JE1LFX</b> 44,145 327 45 B 20	<b>JH7QXJ</b> 43,608 316 46 12 C 20	<b>JA5FDJ</b> 43,605 323 45 C 20	<b>JA2CWU</b> 7,434 118 21 C 20	<b>JA9CCG</b> 5,520 80 23 C 20	<b>JA0JNQ</b> 3,927 77 17 C 20
<b>JA8RPA</b> 2,818 62 13 B 20	<b>JA8RTA</b> 1,890 42 15 C 20	<b>NJ7CPW</b> 1,512 42 12 B 20	<b>JA1QJN</b> 1,326 34 13 B 20	<b>JA1BRL</b> 1,296 27 16 B 20	<b>JE1GZB/3</b> 1,200 40 10 B 20
<b>JE7DGT</b> 975 25 13 B 20	<b>JE1JLO</b> 660 22 10 B 20	<b>JA9JKU</b> 660 20 11 B 20	<b>JA2VQF</b> 848 27 8 C 20	<b>JR1GGB</b> 576 32 6 B 20	<b>JN2UQC</b> 567 27 7 B 20
<b>JR2VQV</b> 561 17 11 C 20	<b>JJ3QVZ</b> 528 22 8 B 20	<b>7K1EGG</b> 441 21 7 B 20	<b>JA1MOS</b> 432 24 6 B 20	<b>JA5ARW</b> 273 13 7 B 20	<b>JH5OXX</b> 252 14 6 1 B 20
<b>JA2VQF</b> 868 27 8 C 20	<b>JH5OXX</b> 252 14 6 1 B 20	<b>VE6ZA</b> (+VE6s JAG,JKB,RSS,ZA) 5,103 63 27 C	<b>JG1GCO</b> 36 4 3 B 20	<b>JA3AVO</b> 3 1 1 B 20	<b>JA7FTR</b> 8,052 244 11 C 15
<b>JK1NGT</b> 1,320 88 5 C 15	<b>JA3LEZ</b> 570 38 5 B 15	<b>JA6BIF</b> 348 29 4 C 15	<b>JA2HPH</b> 162 18 3 B 15	<b>JR7LVK</b> 162 18 3 B 15	<b>JL1MVI</b> 45 5 3 B 15
<b>JR2TRC</b> 30 10 1 B 15	<b>Turkey</b>				
<b>TA3J</b> 12 2 2 B	<b>Asiatic Russia</b>				
<b>RA0FA</b> 54,873 469 39 C	<b>UA0FDX</b> 2,490 83 10 C	<b>RA9CKQ</b> 264 11 8 B 20	<b>Kazakhstan</b>		
<b>UN6P</b> 1,332 37 12 C 20	<b>Hong Kong</b>				
<b>VS97BG</b> 23,598 207 38 5 C	<b>Europe</b>				
<b>Croatia</b>					
<b>9A3ZO</b> 6,720 80 28 C	<b>9A2TU</b> 4,845 85 19 B160	<b>9A4RU</b> 4,092 62 22 B 80	<b>9A7A</b> (9A3TR,op) 66,825 495 45 C 40	<b>9A1HDE</b> (9A3OS,op) 243,198 1374 59 C 20	<b>9A3OZ</b> 14,256 144 33 B 20
<b>9A2VN</b> 3,477 61 19 C 20	<b>Portugal</b>				
<b>CT1IETT</b> 21,684 139 52 12 A	<b>CT1AVR</b> 9,090 101 30 B	<b>CT8T</b> 1,194,669 2107 189 C	<b>CT1ERY</b> 233,280 1296 60 C 20	<b>CT1DIZ</b> 323,100 1795 60 C 20	<b>CT1BNB</b> 13,770 135 34 C 20
<b>CT1IDW</b> 323,100 1795 60 C 20	<b>CT1FOD</b> 6,300 84 25 B 20	<b>CT1BPU</b> 109,557 777 47 C 15	<b>Azores</b>		
<b>CU3AV</b> 81,366 382 71 B	<b>Fed. Rep. of Germany</b>				
<b>DJ6AC</b> 32,781 223 49 B	<b>DL6MDT</b> 31,214 103 46 B	<b>DR8EW</b> 11,214 89 42 B	<b>DL1TS</b> 10,476 97 36 B	<b>KD7ZT</b> 2,160 40 18 B	<b>DL8PC</b> 257,868 741 116 C
<b>DL1DXA</b> 122,034 473 86 C	<b>DF1IC</b> 80,304 478 56 C	<b>DL7ON</b> 71,592 314 75 C	<b>DL8JULP</b> 30,795 127 61 C	<b>DJ3HJ</b> 17,700 118 50 C	<b>DL3AL</b> 15,066 162 31 C 80
<b>DL9JPL</b> 936 24 13 C 80	<b>DF9ZP</b> 271,260 1507 60 C 20	<b>DL2DX</b> 160,602 923 58 C 20	<b>DK3PD</b> 13,284 123 36 C	<b>DK3D</b> 3,102 47 22 B 20	<b>DJ0BX</b> 2,244 44 17 B 20
<b>DL8LTO</b> 1,995 35 19 B	<b>DL8NTC</b> 1,092 28 13 B 20	<b>DL3ZAI</b> 828 23 12 B 20	<b>Spain</b>		
<b>EA5DFV</b> 286,902 759 126 30 B	<b>EA1AKP</b> 112,674 422 89 B	<b>EA4AU</b> 51,840 240 72 B	<b>EA5GPP</b> 50,127 217 77 C	<b>EA3GHZ</b> 38,352 188 68 B	<b>EA7WA</b> 28,188 174 54 B
<b>EA3EVR</b> 26,352 144 71 C	<b>EA3GJH</b> 16,795 127 61 C	<b>EA3KJ</b> 15,369 109 47 B	<b>EA3AM</b> 9,918 118 28 B	<b>EA5EOC</b> 9,768 74 44 B	<b>EA3DVJ</b> 9,288 86 36 B
<b>EA3ESJ</b> 7,242 71 34 B	<b>EA2AOL</b> 5,481 63 29 B	<b>EA4EJ</b> 5,366 54 33 B	<b>EA3ELZ</b> 2,646 42 21 B	<b>EA5CRU</b> 1,344 28 16 B	<b>EA7BA</b> 274,959 679 135 C
<b>EA3FHN</b> 226,248 857 88 C	<b>EA1FBU</b>				



