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Phone Results, 1996 ARRL International DX Contest

After the 1996 SSB ARRL International DX Contest, comments flowed in from around the world—most speaking to the total loss of propagation on 10 meters! But other contestants really like the effects of being at the bottom of the sunspot cycle—the low bands are great and loaded with activity! So, however you looked at 1996 conditions, there was DX to work and contests in which you could chase it!

For the competitors, it turned out that whoever made the best decisions on how to handle 10 and 15 meters finished the contest as the leaders. From his HC8N Galapagos Islands station, Trey, WN4KKN, enjoyed great north-south conditions on 15 and a Saturday opening on 10 that propelled him into a first place single-op finish over Carlos, TI1C, from his home, and Scott, KA9FOX, operating from TD9IGI. Trey (who prefers CW) says that “Operating single-op phone in the ARRL DX contest was harder than I thought.” Trey found most of his 900 10-meter QSOs on Saturday—an opening that Carlos and Scott did not have. On Sunday, Trey really worked 15 meters hard and hoped that Scott and Carlos and Carl (P40V) didn’t get a gangbusters opening on 10. That move paid off. For comparison, in 1995, P40V won the contest and had 2718 QSOs on 10 meters—but just a handful this year! Outside of the dominating Latin American and Caribbean area, WR6R/KH6 finished seventh with those big signals from Hawaii, and OK1RI took home the European honors.

From W/VE, the story was much the same, except that 15 meters was the question mark. Operators all over found themselves asking, “Should I try to CQ on a spotty 15, and give up my great frequency on 20, or just stay on 20 and hope that my competition wastes his time on 15?” And that is how the battle between winner John, K1AR, and second-place Tom, W2SC (operating K5ZD), finished: John managed to work over 40 countries on 15 on Saturday that Tom could not make up on Sunday. Even with no sunspots there is serious contest strategy to consider! Despite worse conditions, John’s great score was 200,000 points better than

last year’s winning score! W9RE had the best score from the Midwest, finishing 7th, while NU6S operated WC6H to a hard-fought million points and a 12th place finish from the Far West.

The single-op low power class saw an unusual battle within Jamaica, as 6Y5DA beat 6Y5JA for the title! Third place went to FO5IW, a great multiplier from beautiful French Polynesia. Including these three stations, many other stations in Latin America and the Pacific filled 15 meters, making for a lot of fun for those of us in the north.

AC1O/4 did a great job from Florida to win Number One in the W/VE low power,

W/VE Single Operator, High Power, PHONE

Call Sign	Score	160	80	40	20	15	10
K1AR	2,808,390	59/42	326/72	344/74	1572/120	164/67	5/4
K5ZD (W2SC, op)	2,498,490	62/38	320/73	303/68	1633/117	85/42	11/7
N6BV	2,133,894	50/36	381/71	249/63	1393/106	105/40	31/6
K3ZO	2,062,935	39/30	322/69	307/61	1249/115	137/55	11/3
KM9P	1,914,516	56/36	210/64	217/63	1179/104	144/59	60/16
W3BGN	1,686,390	74/43	202/63	165/61	1080/105	142/58	15/5
W9RE	1,596,945	52/36	160/62	162/60	990/104	175/62	50/11
AA1K	1,419,228	53/37	134/53	164/58	1064/108	104/44	27/6
VO1MP	1,349,100	44/34	243/69	211/56	839/80	154/58	8/3
WZ4F	1,301,688	35/31	126/61	120/54	975/104	165/50	11/2

W/VE 160	W/VE 80	W/VE 40	W/VE 20	W/VE 15	W/VE 10
K1ZM	34,380	KQ3V	156,216	N7DD	196,854
AC4NJ	23,316	KO1F	125,460	KC7EM	193,344
WB9Z	16,695	WA4SVO	121,923	W0UN	140,220
W2VO	9,384	VE9ST	56,019	(W0UA, op)	
W3GH	9,240	K9HMB	48,108	N6RO	124,200
AA8U	7,740	WD4KXB	44,520	WA0ETC	39,690
K8OQL	2,754	KD1NG	40,560	W7CB/6	31,500
K2FL	2,673	W4NTI	20,709	KC4YM	23,940
K4JRB	2,652	N2AUJ	20,130	K1VWL	21,060
K8CFU	2,400	W5FO	19,152	W3TMZ	19,926
			N9ITX/7	217,515	KR4IN
			K2UOP/8	18,252	19,431
			K9DX	208,161	WB5CRG
					975
					WB0GFV
					891
					KB5ZFO
					306
					(N/T)

Top Ten

W/VE Single Operator, QRP, PHONE	W/VE Single Operator, Low Power, PHONE
AA2UN	164,496
N1AFC	104,052
KA4RRU	99,036
N6AZR	89,430
KA1CZF	73,248
N1CWR	69,834
W6CN	64,032
N8AXA	52,398
WBQZA/6	44,322
KV8S	37,224
	WN4KKN
	TI1C
	KA9FOX
	TD9IGI
	P40V
	W3GH
	W4NTI
	W2VO
	W3BGN
	W9RE
	AA1K
	VO1MP
	WZ4F
	W1C
	W2FL
	W4JRB
	W8CFU

DX Single Operator, High Power, PHONE

Call Sign	Score	160	80	40	20	15	10
HC8N (WN4KKN, op)	7,177,500	250/52	720/58	982/59	2109/60	2288/59	901/42
T11C (T12CF, op)	6,993,882	327/56	1147/59	842/59	1794/59	2545/59	431/37
TD9IGI (KA9FOX, op)	6,317,325	285/49	817/59	960/58	1847/60	2439/59	337/30
P40V (A16V, op)	6,281,475	268/49	440/57	808/56	2365/59	2400/59	129/20
VP5X (WE3C, op)	5,235,852	506/54	1344/59	859/58	1930/60	1313/56	25/5
V26AS (YT1AD, op)	4,732,008	223/48	475/56	924/57	1872/59	2055/59	5/5
WR6R/KH6	3,981,735	197/46	373/53	1069/57	1303/54	1282/56	433/19
J37K (W8KKF, op)	2,774,358	67/21	254/49	598/55	1024/59	1722/58	49/7
OA4SS	2,133,573	0/0	222/47	227/46	559/51	1688/60	255/37
CP6OH/0XX	1,613,145	7/4	59/24	231/47	788/56	1397/59	141/15

DX 160	DX 80	DX 40	DX 20	DX 15	DX 10
ZF2ND	139,200	9A3A/4U	228,153	KH6FKG	141,759
		ON4UN	188,448	LU4D	127,512
CU2CE	28,560	EA6BR	187,050	IG8R	118,092
YV1DRK	17,898	YV4FZM	137,313	(I8RIZ, op)	
S59Z	10,668	HC1HC	134,166	S59DBC	109,950
HA8BE	5,589	4AVG	106,122	(S55OO, op)	
OM5ZW	2,856	ZL1RS	103,545	ZY2HT	94,248
HG3SK	1,890	T93M	72,000	HG1H	86,856
HB9RG	1,680	S57O	50,307	(HA1TJ, op)	
ZL1HY	756			YT7A	82,368
				(YZ7UN, op)	
				HB9FAP	61,662
				IR4R	60,630
				(SP2FAX, op)	
				4N0AV	263,520
				(W7TSQ/T15)	
					106,236
					LW6EQQ
					49,896

topping excellent scores from NY3Y, VA3DX and (Number Four) WA7BNM, who won the West.

Naturally, when conditions on the high bands are poor, QRP contesters find the going *especially* rough. AA2U won for the US and Canada in a repeat performance from last year, with a score of less than half that of 1995. From Puerto Rico, KP4DDB found 15 meters much to his QRP-loving, and he ran up a score that was triple that of his nearest competition, winning the world!

The single-op assisted class continues to gain in popularity—especially in South America! PP5JR used a great call sign, PQØMM, to rack up over 3.5 million points from Brazil to win the world. Four of the top five assisted scores in the world were from

South America. From W/VE, VE3EJ cruised to a large margin of victory over second-place finisher K2WK (who moved up from fourth in 1995!).

Operating a single band can be a great way to make a competitive score, work some excellent DX, and get a little sleep in the same weekend! On 160 meters, 1996 activity was found from 1.820 to 1.880 MHz. KF6OG operated from ZF2ND to win top-band honors over long-time lowbander CU2CE. From the US, K1ZM stayed wide awake and logged 60 countries to win! AC4NJ battled the Florida noise to take second over WB9Z's big station in Illinois.

There was a lot of action on 80 meters in 1996. That great operator from Haiti, 9A3A/4U, won the world over ON4UN, who

battled severe QRM all weekend. Dealing with the incredibly loud signals and QRM is part of the game on 80 meters and these guys know how to do it. KQ3V repeated his win for the US and Canada, with a great lead over KO1F, who moved up from fourth place last year.

Forty meters once again proved to be a band that can be won from places other than the North American East Coast or South America! KH6FKG put together a nice effort from Hawaii to win the DX side, and N7DD moved up from Number Two in 1995 to win in '96! Very close behind DD were 40-meter aficionados KC7EM, WØUN and N6RO—all of whom send a *big* thank you to the operators from Japan who put in a great effort on the band.

The monster band is always 20 meters. NI8L got his new station together and put up a great 518k score to win for the US, closely followed by VA3MM, who repeated his Canadian Number One score and overall Number Two score from 1995. KK9A continued his travels around the Caribbean for the ARRL DX Contests by producing a stellar 702k score to win from VP2V. GIØUJG also did a great job by making over 425k points from Europe.

Have you noticed the nice increase in activity from Paraguay? It's nice for us to have the ZP multipliers on every band, and this year ZP5MAL won 15 meters over PY4OY. AH8A used his great Southern Pacific location to finish in fourth place, just beating ZP6CC. From the US, K5XI guided his Texas superstition to a commanding win on 15 meters.

KE5FI really put in some hours for his W/VE win on 10 meters. Chuck worked everything that moved—and most of what moved seemed to be from Argentina! Another wonderful outpouring of South American activity has come from LU, with LU3HIP operating LU4HAW to a 10-meter win, and leading four other LU stations in capturing the top five positions!

The multi-single winners are truly great efforts in a very competitive category—8P9Z moved up from Number Four last year to win over WP2AHW, and the fabulous K3LR station produced over 3.1 million

Top Five

DX Single Operator Assisted, PHONE

Call Sign	Score	160	80	40	20	15	10
PQØMM (PP5JR,op)	3,536,160	0/0	164/45	774/56	917/56	1843/58	750/50
LU4AA (LU6BEG,op)	1,854,927	0/0	74/29	28/18	826/56	1566/59	493/45
LU2NI	1,511,070	0/0	9/7	338/52	834/58	849/56	380/36
KH6RS (N6HR,op)	1,078,680	11/8	101/30	562/53	636/53	418/52	52/6
Z22E (PY2EX,op)	1,071,600	0/0	2/2	363/53	613/57	513/52	295/36

DX Multioperator Single Transmitter, PHONE

Call Sign	Score	160	80	40	20	15	10
8P9Z	7,379,232	378/53	887/59	1474/59	2120/59	2765/59	160/27
WP2AHW	6,893,262	342/53	850/58	1074/59	2128/59	3020/59	95/18
PJ9G	6,247,053	381/53	797/59	864/58	2029/58	2552/59	116/22
VP2E	4,695,033	338/51	767/59	736/59	1711/58	1896/58	5/2
XE2KB	4,387,122	304/51	990/59	1008/57	1241/57	887/55	349/27

DX Multioperator Two Transmitter, PHONE

Call Sign	Score	160	80	40	20	15	10
XE2DV	8,643,288	553/58	1206/60	1470/60	2708/60	2312/59	429/35
FS5PL	7,509,087	343/51	1197/59	1831/59	2421/60	2867/59	2/1
IQ4A	1,886,400	25/13	389/42	927/57	1631/59	172/29	0/0
EA3CCN	1,178,715	2/2	223/33	458/49	1389/59	123/34	0/0
JA1YXP	485,685	0/0	94/24	407/42	706/51	48/12	0/0

DX Multioperator Unlimited Transmitter, PHONE

Call Sign	Score	160	80	40	20	15	10
V31DX	6,018,300	237/45	564/58	1333/60	1940/60	2282/59	331/18
9A1A	2,527,482	190/32	836/47	691/53	1870/58	191/33	0/0
KP4VA	2,359,638	0/0	331/49	665/58	738/57	1807/57	2/1
RW2F	833,625	104/23	447/38	121/37	928/56	25/17	0/0
JA1YDU	827,442	0/0	257/40	483/43	965/54	86/17	0/0

Top Ten

W/VE Single Operator Assisted, PHONE

Call Sign	Score	160	80	40	20	15	10
VE3EJ	2,975,535	52/43	305/78	246/84	1679/126	117/61	50/13
K2WK	1,996,164	60/46	256/71	136/66	1226/121	102/50	38/12
N3RR	1,558,440	62/45	159/69	217/71	750/109	172/66	44/10
K3WW	1,496,985	64/47	137/69	141/71	851/111	128/65	24/7
KS1L	1,479,882	41/33	104/54	92/49	1218/120	98/49	18/9
K3NZ	987,624	53/43	130/65	136/65	484/103	135/62	19/6
N8ATR	953,250	37/30	101/57	105/58	650/107	110/51	23/6
AA3B	926,838	29/27	101/54	121/60	611/96	121/57	40/8
WN3K	894,825	26/24	85/54	91/49	704/105	105/52	14/7
NN3Q	855,795	27/27	94/54	72/50	623/96	138/64	13/4

Top Five

W/VE Multioperator Single Transmitter, PHONE

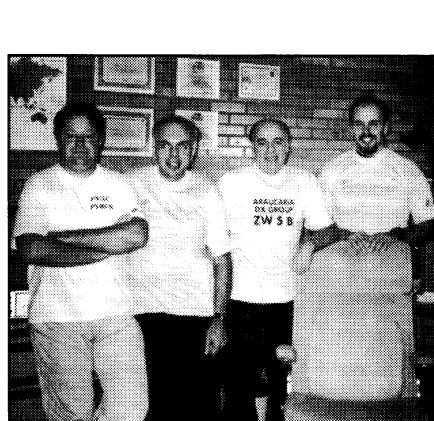
Call Sign	Score	160	80	40	20	15	10
K3LR	3,112,488	67/46	341/87	268/82	1636/138	131/52	45/12
K8AZ	1,926,657	51/39	184/68	168/71	1192/115	127/56	57/12
KY2J	1,834,920	52/41	280/72	220/77	1009/107	124/55	14/8
AA4NC	1,654,896	44/39	137/64	282/69	767/108	226/81	43/7
K8CC	1,555,965	43/34	185/66	173/71	892/115	133/60	35/9

W/VE Multioperator Two Transmitter, PHONE

Call Sign	Score	160	80	40	20	15	10
KC1XX	4,062,720	71/47	543/84	363/87	1668/133	270/96	29/13
KF2ET	3,728,100	56/42	442/86	383/82	1809/132	198/75	36/8
K4ISV	3,253,800	74/41	278/79	287/75	1564/128	300/85	49/15
KS9K	2,841,258	53/40	276/80	254/85	1397/138	193/68	45/16
W1FJ	2,465,652	72/49	493/83	264/74	1087/110	138/68	34/10

W/VE Multioperator Unlimited Transmitter, PHONE

Call Sign	Score	160	80	40	20	15	10
W3LPL	5,599,509	117/56	736/100	572/99	1805/137	360/99	77/18
N2RM	5,065,551	122/54	589/95	482/91	1805/138	390/98	65/13
K1RX	3,979,152	79/46	446/82	324/86	1733/133	288/92	58/14
N3RS	3,717,720	73/48	362/81	529/91	1293/131	367/95	70/14
N2NT	3,144,330	90/50	389/85	342/80	1310/126	232/80	52/13



The Araucaria DX Group, ZW5B, put together a multi-single effort from Brazil (l-r): PY5CC, PY5VV, PY5EG and PY5GU.



The group at VE6JY tries their luck in the multi-single class: (Rear, l-r) VE6JY, VE6BMR, VE6FR, VE6SLV and VE6BMX; (front, l-r) VE6LDX, VE6DGG, VE6LCB, VE6YIC and VE6BF.



These folks supplied us with many of the Caribbean multipliers: (rear, l-r) VP2EB (host of VP2E), WE9V (op at FS5PL), N0BSH (op at FS5PL), WX9E (op at FS5PL), AA8GL (op at PJ8A); (front, l-r) KC0ZC (op at VP2E), WA0PUJ (op at VP2E), and ND5S (op at PJ8A).

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)	
AA2U	164,496 A	KA4RRU	99,036 A	N8AXA	52,398 A	KA5PVB	15,876 A	N6AZR	89,430 A
N1AFC	104,052 A	N1CWWR	69,834 A	K8AEM	3,060 A	KB0SRY	714 A	W6CN	40,032 A
KA1CZF	73,248 A	KV8S	37,224 A					W8QZA/6	44,322 A
K3ZA	25,986 A	KT4LD	22,050 A					N7JXS	17,199 A
AA3GM	3,330 A	KN4QS	12,483 A					N7XCV	4,880 A
NY3Y	455,250 B	AC1O/4	586,404 B	VA3DX	450,846 B	AC0W	290,466 B	WA7BNM	436,020 B
W2TZ	388,080 B	WA4ZX	407,484 B	N9JF	325,944 B	AA0SQ	204,672 B	KJ6HO	403,572 B
WA0QOA	333,564 B	KC8FS	300,291 B	KD9MS	156,996 B	VE5SF	108,756 B	W7YAQ	254,310 B
WS1A	323,604 B	N5OZB	280,197 B	KU8U	146,454 B	N9ARX	86,016 B	K7LUH	166,044 B
AD8J	254,880 B	K4CSB	229,632 B	AC4PY	139,416 B	N5RXF	81,534 B	K6ITL	156,996 B
K1AR	2,808,390 C	KM9P	1,914,516 C	W9RE	1,596,945 C	K5RX	947,562 C	WC6H (NU6S, op)	1,028,925 C
K5ZD (W2SC, op)	2,498,490 C	W24F	1,301,688 C	WA8ZDT	374,535 C	KS1G	882,639 C	WA7FOE	601,650 C
N6BV	2,133,894 C	W9LT	934,497 C	NE8I	365,175 C	NR0X	392,562 C	K6GX	506,853 C
K3ZO	2,062,935 C	K4VUD	833,946 C	AA8PA	271,878 C	W3GRW	253,935 C	W6TKF	426,600 C
W3BGN	1,686,390 C	K4YYL	672,480 C	KB0C	271,026 C	W5CWQ	212,493 C	KM6YX	425,880 C

W/VE Plaque Winners—PHONE

Single Operator	
All Band	K1AR
1.8 MHz	K1ZM
3.5 MHz	KQ3V
7 MHz	N7DD
14 MHz	NI8L
28 MHz	KE5FI
Low Power	AC1O/4
QRP	AA2U
Assisted	VE3EJ

Multioperator	
Single Transmitter	K3LR
Two Transmitter	KC1XX
Unlimited	W3LPL

DX Plaque Winners—PHONE

Single Operator	
World	HC8N (WN4KKN, op)
Africa	EA9IE
Asia	JH7DNO
Europe	OK1RI
North America	T11C (T12CF, op)
Oceania	WR6R/KH6
South America	P40V (AI6V, op)
Region 2	
1.8 MHz	ZF2ND (KF6OG, op)
3.5 MHz	9A3A/4U
14 MHz	VP2V/KK9A
21 MHz	ZP5MAL
28 MHz	LU4HAW (LU3HIP, op)
Low Power	6Y5DA
QRP	KP4DDB
Assisted	PQ0MM (PP5JR, op)
Multioperator, Single Transmitter	
World	8P9Z
Asia	JA7YAA
Europe	CQ5P
North America	WP2AHW
Oceania	VK5GN
South America	PJ9G

Multilooperator, Two Transmitters

World	XE2DV	ARRL
North America	FS5PL	Steve Morris, K7LXC and Up The Tower
Multioperator, Unlimited		
World	V31DX	Wayne T. Yoshida, KH6WZ
Asia	JA1YDU	Hajime Kato, JO1RUR/2, KH0G
Europe	9A1A	Operators at KY1H
North America	KP4VA	Scott Robbins, KY2P

Special Plaques

Single Operator	W/VE Combined Score	W2SC	National Contest Journal
W/VE Low Power Combined Score	AC1O/4	W6CN	Rochester, NY, DX Assn
W/VE QRP Combined Score	AA2U	Dr. Marvin M. Tanaka, KH6MM	
W/VE 40 Meters Combined Score	KC7EM	Advanced Electronic Applications, In Memory of Jim Raffere	
W/VE Under 18 Combined Score	N1QMM	Connecticut DX Assn, Father Moran, 9N1MM, Memorial	
World Combined Score	OA4SS	Mike Manafo, K3UOC	
Japan Combined Score	JH7WKQ	JA7WME, JE7RJS, JH7AFR	
Atlantic Division CW	K3ZO	K2NY Memorial—Salt City DX Assn	
Great Lakes Division CW	N8AA	Livonia Amateur Radio Club, Livonia, MI	
Great Lakes Division Phone	NI8L	Livonia Amateur Radio Club, Livonia, MI	
Japan All Band CW	JH5FXP	Akita DX Assn	
Japan All Band Phone	JH7DNO	Communication Ham Club, JH7YJF	
Japan Low Power All Band CW	JN2QCV/9	Western Washington DX Club	
Japan Low Power All Band Phone	JA2BY	Western Washington DX Club	
Seventh Call Area All Band CW	NN7L	Willamette Valley DX Club	
Seventh Call Area All Band Phone	WA7FOE	Willamette Valley DX Club	
Single Operator Under 18 CW	KC6CNV	Virginia A Greene, WB1AVA	
Single Operator Under 18 Phone	N1QMM	Virginia A Greene, WB1AVA	
Multioperator	Caribbean Multi-Single CW	PJ9C	The YASME Foundation
	Multi-Multi Combined World	9A1A	W2PV Memorial—Schenectady ARA

Affiliated Club Competition

	Score	Entries	CW Winner	Phone Winner		Score	Entries	CW Winner	Phone Winner
Unlimited Category									
Frankford Radio Club	101,100,813	153	N2LT	W3BGN	*South Jersey Radio Assn	352,773	12	KA2GSL	KD2KS
Yankee Clipper Contest Club	77,307,702	104	N6BV	K1AR	Kansas City DX Club	322,080	3	KM0L	KC0E
Potomac Valley Radio Club	45,391,194	85	K3ZO	K3ZO	*Lincoln ARC	243,912	3	KB0JSU	—
Medium Category					Indian River ARC	203,352	9	W4YN	AC4IV
North Coast Contesters	20,717,241	24	K3MD	N1BL	*Northrop Grumman Radio Club	183,291	5	N6GL	W6CN
Society of Midwest Contesters	10,424,634	25	W9RE	W9RE	*Mississippi Valley DX/Contest Cl	183,042	5	K0JPL	—
*Mad River Radio Club	6,698,715	18	K8GL	K8MR	Hazel Park ARC	175,722	3	K8QLK	K8QLK
North Texas Contest Club	5,492,238	16	K5MR	K5RX	*Genesee County Radio Club	157,818	3	—	K8LJG
*Southern California DX Club	5,242,536	24	K6HO	WA7BNM	*Long Island Mobile ARC	86,256	3	N2LSK	N2JX
Southeastern DX Club	4,670,964	14	K4PI	K4OGG	Northern Arizona DX Assn	77,235	3	W7YS	KI7LS
Florida Contest Group	4,280,064	11	AC1O/4	K4VUD	Long Island DX Assn	47,940	3	K2MFY	N2KA
Northern California Contest Club	3,922,428	16	ND8L	WC6H (NU6S,op)	*Fresno ARC	35,862	3	WS6X	WB6ITM
*Western Washington DX Club	3,406,659	18	NN7L	WA7FOE	Local Category				
*Mile High DX Assn	3,378,954	6	K9BQL	K0CS	Hudson Valley Contesters and DXer	5,339,103	9	W2XL	—
Texas DX Society	3,350,406	8	KE5FI	K5XI	River City Contesters	4,480,704	7	K6SG	—
Minnesota Wireless Assn	3,139,473	10	AA6SQ	AC0W	Carolina DX Assn	2,023,389	8	AA0ME	K4YYL
Northern California DX Club	3,129,315	24	K4BIM	K6HNZ	*Central Arizona DX Assn	965,370	8	N7IR	WA7MTF
Southern California Contest Club	3,070,419	15	KN6DV	K6VI (SM8SGP,op) (W6UQF,op)	Western Illinois ARC	552,852	6	NM9C	N9JF
Kentucky Contest Group	2,743,839	9	K4LTA	K14DC	Albany ARA	552,600	3	—	WB2YLR
Rochester (NY) DX Assn	2,171,160	13	W2TZ	W2TZ	*No Dot DXers	465,789	4	K9QVB	K9QVB
Western New York DX Assn	1,728,006	17	KW2J	WB2WPM	Great Falls Area ARC	461,262	6	AA7BG	K7LUH
Nashville ARC	1,236,987	5	WA6KUI	KR4ND	Parkersburg Amateur Radio Klub	373,701	3	K8UC	K8UC
Eastern Iowa DX Assn	797,130	3	—	NR0X	North Shenandoah DX Assn	309,441	8	N4MM	N4MM
Willamette Valley DX Club	636,741	5	W7YAQ	W7YAQ	American Red Cross Emergency Comm	307,011	6	—	WB2ZTH
*North Florida DX Assn	632,013	5	—	KC4FWS	Sterling Park ARC	187,566	4	W3FTG	W4LMJ
Murphy's Marauders	600,261	5	K1RM	K1IN	Eastern ARS	152,265	4	—	AC4PY
California Central Coast DX Club	582,786	7	N6AZR	W6TKF	AK-SAR-BEN	141,978	4	NV3L	WD0GHA
Grand Mesa Contesters	575,439	7	KJ0G	N0ZA	Redwood Empire DX Assn	133,536	3	K6ZUR	W6ESJ
Salt City DX Assn	568,125	8	NA2Q	NA2A	Hamfesters Radio Club	98,817	8	W9MYY	W9BNR
*Puerto Rico DX Club	472,218	3	WP4IIW	KP4DDB	West Park Radiops	90,432	6	W8PN	W8IDM
Schenectady ARA	422,682	4	K2UF	K2UF	Westside ARC	77,457	6	KQ6AG	N6WMK
North Alabama DX Club	409,041	5	KN4QS	KR4QI	*Dayton ARA	57,726	3	N8AXA	N8AXA
*San Diego DX Club	400,518	4	W6YA	WA6VNR	* denotes club eligibility list not received.				

points to win from W/VE. If you have ever driven from Ohio to Pennsylvania on I-80 you have likely gazed in awe at K3LR. Multi-single is still a category where Western stations can compete—N2IC/Ø ranked 6th; W6GO, 9th; and the big, new station of VE6JY finished 12th (see the sidebar, "Putting VE6 on the Map...").

It's always fun to see newer stations produce great scores and move up in the standings each year. The multi-two class in the US and Canada witnessed a great competition between two such stations in 1996: KC1XX and KF2ET. But KC1XX's big New Hampshire towers and skilled operators were just too much in the end for a fired-up crew at KF2ET. The KF2ET operation took place from KE2NL, where there are two 72-foot crank-up towers on a suburban 1/3-acre lot! (Determination and effort can be great equalizers in contests!) Just behind KF2ET is a fine score from Kentucky's K4ISV, and even further West is the superstition of KS9K in 4th place.

And there was even more great competition in the multi-two class, as XE2DV added a solid one million points to the fine efforts of the crew at FS5PL. Ten meters again played a major role, as the XE2DV operators made 429 QSOs on 10 meters compared to the 2 QSOs made on the band from FS5PL!

The multi-operator multi-transmitter class brings out heavyweight battles around the world. One of the best rivalries of recent years has been W3LPL versus N2RM, and 1996 was no exception. When the last bit of red color disappeared from the tubes, W3LPL had repeated as US champion over the crew at N2RM. This battle should continue for many years to come; Frank and Bob are among the best in the world and will continue to place their stations and opera-

tors in the highest echelons. Another prolific station builder is Paul, WØAIH, who may have the largest antenna farm in the world in northern Wisconsin. AIH produced the top multi-multi score from the west, and Paul and his operators are surely looking forward to the return of sunspots and better years.

V31DX, last year's Multi-Single Number Two finisher, went multi-multi in '96 to win the world. Finishing second, from beautiful Croatia, the 9A1A station was one of the only groups to actually improve their score over 1995! The 9A boys claim the advantage this year was to be found in Beverage receiving antennas for the low bands, and the importation of K4XU to run the 20-meter band! 9A1A is one of the true beacons for North Americans.

Soapbox

W/V/E

I just dabbled in the contest and had great fun! (AB7GM). Twenty meters was a jungle into which only the brave or foolhardy dared enter (N9JF). Conditions were exciting on 20, but not as good as for the stations southeast of me. Fifteen opened for only a short period. I shoveled out my 40-meter vertical, but the SWR was still 4:1 (VE4RP). Conditions were much better than CW (WB5UDX). The conditions were pitiful! There were no direct-path openings to Europe either day on 20 meters (N6BV/1). Even 80 sounded like 20, it was fantastic! (N4UH). Working Europe was like pulling teeth. I was unable to establish a run on any band (AB6YL). There was lots of good operating, loud DX signals, and fun (W9PNE). Running 40-meter SSB split is always a challenge and fun (WB2AMU). It was fun working QRP during some free time (KN2L). I can't wait for the sunspots to come back (WB4NFS). It was great to have JT1CC call me in the middle of the JA pileup (W6TKF). I could have done a lot better if 10 meters had cooperated (W9KTB). Ten meters was remarkable (W6AQ). My highlight was having two OD5s and a 4X6 answer my CQ on a band that sounded dead. We West Coasters would be lost without all those superb JA ops (KC7EM). It was a great contest despite the sluggish cycle conditions (VE3EL). My big thrills were having EA9IH answer my CQ and

getting through the pileup to work OD5NJ (WAØETC). I had a lot of fun with low power, although things were a little poor on 10 (WA4JUK). I managed to have fun in spite of the very poor conditions. I wonder if I'm the only one who got blue in the face calling those I stations on 40? (W5CWQ). I decided to drop a 1/4-wave piece of wire off the tower and try 80 meters (W5FO). I know I won't win, but I had a great time anyway (WA9PYH). I didn't make a lot of QSOs, but I had a ball on 80 (N9JC). Eighty meters was very good (K5DX). I was shocked to have EA8BR call me on 80 (K7LUH). I enjoyed every minute (WØCAQ). I missed about half of the European opening Saturday morning (K4JRB). There were some Europeans and JAs on 15, but 10 meters was almost exclusively LU and PY. I worked my first ZL on 80 (WA5IYX).

DX

I made more QSOs than I expected, given these conditions (PY2NY). I couldn't make a single contact on 15 or 10 (JE7DOT). In addition to the QRN, I had QRM from chainsaws, speedboats and firecrackers (HR6/N4MO). There were amazingly good openings at times, but with few stations to work (VK5GN). I really became wide awake when a rat the size of a football crawled out around the rig to stare me in the face (WR6R/KH6). The low-band propagation was excellent. I ran out of stations to work. There was only one short opening on 10 (VP5X). Too many stations still use crummy phonetics (VK2APK). Propagation was good the first morning; then on the second morning, I overslept (LY1FW). I heard nothing the first day, but 10 opened suddenly the second day, and I worked stateside for over three hours (ZL1ANJ). Propagation on 20 and 15 was poor; 40 was my best band (ZL2AMI). A new Beverage on 160 was a big help this year (EI7M). The propagation wasn't very good, but since I had my wife's permission to operate, I went for it (PY2NQ). This was the first time I ever operated single-band 40, and I had the time of my life (IR1A). This is the only contest in the world where no DX station runs out of takers! (TI1C). Anyone who tried to operate between 3.790 and 3.800 was crazy (ZL1RS). I waited for the 15-meter opening, and it never came (OH5PA). The "lazy sun" provided an extra challenge (OZ8T). I didn't work any stations on 10. Thank you, everyone who got my call right the first time (CT1EAT). I was impressed with the exemplary behavior and discipline of all the participants (6Y5DA). Propagation was good into W6 and W7, but I couldn't work any W5s (CU2CE). I stayed up the full 48 hours—I'm not sure I'll ever do that again! (TD9IGI).

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 multioperators. Line scores list call sign, score, QSOs, multipliers, hours of operation, power (A = QRP, B = Low Power, C = High Power), and band. Division and continental leaders are listed in **bold**.

W/VE		KA2YKN	7,482	58	43	B	KD4PKW	6,063	47	43	B	K5RX	947,562	1078	203	32	C
Single Operator		KG2DO	4,743	51	31	B	KT4IX	5,586	49	38	B	KS1G	882,639	971	303	C	
1		KF2YX	3,720	40	31	B	KT4BZ	1,200	25	16	B	W5CWQ	212,493	367	193	C	
Connecticut		N2MR	330,096	529	208	C	K2YJL	90	10	3	4	KC5HOT	99,036	222	126	C	
KA1CF		KD2KS	205,911	411	167	C						N6ZZ	74,556	218	114	C	
KA1CZF	73,248	224	109	A	N2AWC	1,440	24	20	C		WSFO	19,152	112	57	C	80	
KD1TM	95,256	252	126	B	K2FL	2,673	33	27	C	160	W4AZXA	407,484	539	252	B		
KB1ACN	23,400	156	50	B	AD3Y	27	3	3	B	160	KO4MM	207,726	389	178	C		
KE1AU	16,512	86	64	B	K2ZI	16,695	105	53	C	40	KS4KG	111,069	301	123	26	B	
WV1C	14,616	84	58	B	K2BQW	45,540	220	69	B	20	WB4VIM	27,744	136	68	B		
N4REE	3,690	41	30	B	KN2L	15,435	105	49	7	A	N4LUH	4,611	53	29	B		
N1FO	588	14	14	B	WA2YSW	270	10	9	C	20	446,208	664	224	C			
AA2Z	514,080	765	224	15	N2VPN	75	5	5	C	15	K4RZ	90,846	309	98	C		
AK1K	402,984	579	232	C	K3JGJ	25,992	152	57	C	15	K8CFU	2,400	32	25	C	160	
K5FUW/1	116,235	287	135	C	WA2DUE	270	10	9	B	15	KC4YM	23,940	140	57	C	40	
K1IN	95,499	243	131	C							K2IBW	297,036	892	111	C	20	
AB1U	3,192	38	28	B	80						KR4IN	19,431	127	51	B	15	
K1VWL	21,060	130	54	C	W2TZ	388,080	588	220	26	B							
KA1ILG	172,512	599	96	B	NA2A	200,208	388	172	C								
KA1DSQ	17,097	139	41	C	WB2WPM	180,936	359	168	B								
Eastern Massachusetts		WA2ABN	178,920	355	168	B	AD4RE	159,819	319	167	B						
N1QMM	146,880	306	160	B	N2PEB	166,056	407	136	C		KC4FW5	138,516	238	194	B		
W1MKH	105,080	260	136	B	WB2OSM	127,008	294	144	24	B	W2AII	19,776	103	64	B		
KB1JLF	37,845	145	87	B	K2GRAS	45,198	182	93	16	B	KF6POS	15,759	103	51	22	B	
WO1N	26,775	119	75	B	WB2ZM	37,536	184	68	B	K4VUD	833,946	1061	262	C			
W1W1F	24,948	108	77	B	K2CQ	27,375	125	73	B	W4WQ	94,419	269	117	C			
N1HVK	24,380	140	58	B	K2CDJ	13,845	71	65	4	B	AC4NJ	23,316	134	58	C	160	
W1KRS	270,270	455	198	C	N2LQO	8,928	62	48	B	WA4ASVO	121,923	437	93	C	80		
KA1DWX	83,344	236	118	11	C	WB2DVU	4,620	44	35	B	K4JDV	9,936	72	46	C	40	
W1VIV	75,900	220	115	C	W2OMV	124,713	279	149	C	WA4FDA	75,030	305	82	C	20		
K2LP	46,176	148	104	C	WR2Y	120,198	299	134	C	W9CNF	192	16	4	3	B		
W1DO	30,000	100	100	C	W2CP	77,292	226	114	C								
WS1H	28,764	141	68	C	KW2J	40,977	157	87	11	C							
N1DS	2,592	32	27	C	WB2YQH	6,396	52	41	C								
K1ZM	34,380	191	60	C	W2VO	9,384	68	46	C	160	K4YLL	672,480	994	240	C		
WZ1R	18,450	123	50	C	KB2NU	26,535	145	61	B	20	W3VT	342,543	503	227	30	C	
Maine											K4DTT	15,369	109	47	C		
N1AFC	104,052	299	116	A	WA3Q	18,000	100	60	B		W4JKC	12,012	91	44	C	40	
KC1YF	62,886	223	94	B	W4KM	585	15	13	C	15	AE4FA	21,240	120	59	27	B	
KB1YA	42,315	155	91	B													
W1CEK	6,150	50	41	B													
KA1SVV	4,773	43	37	18													
KO1F	125,460	492	85	C	80												
K1DWQ	90,300	350	86	C	20												
New Hampshire																	
WS1A	323,604	534	202	B	W3NX	95,160	244	130	C								
KD1ON	5,994	54	37	2													
N6BV	2,133,894	2209	322	C													
KC1CF	1,085,148	1402	258	C													
K1BV	73,164	268	91	C													
N1TZW	38,988	171	76	C													
Rhode Island																	
W1OP (K1PLX,op)	190,992	346	184	C													
KD1IA	34,080	142	80	C													
KD1NG	40,580	208	65	C	80												
WA1MKS	42,000	200	70	B	20												
W1RFQ	28,044	164	57	C	20												
WA1HYN	7,800	65	40	C	15												
Vermont																	
N1PBT	148,404	332	149	B													
K1CLN	97,929	279	117	B													
K1IK	8,436	76	37	C	40												
Western Massachusetts																	
AA1EY	219,852	394	186	B													
KD1KI	120,558	283	142	B													
KW1V	65,190	205	106	B													
WR1X	58,422	214	91	B													
K1AR	2,808,390	2470	379	C													
K5ZD (W2SC,op)	2,498,490	2414	345	C													
KD1YN	85,869	329	87	B	20												
2																	
Eastern New York																	
K2UF	195,825	373	175	B													
AA2TB	70,896	211	112	B													
K2RI	47,922	163	98	B													
AA2OI	11,808	82	48	B													
WB2YLR	95,076	258	124	C													
WB2LBF	11,193	91	41	7	20												
WX2N	6,417	69	31	B	15												
NYC-Long Island																	
WB2AYQ	79,335	205	129	B													
WA2CNV	53,784	166	108	B													
WB2ZB	42,240	220	64	B													
W6TER	30,624	116	88	B													
N2JIX	30,256	123	82	44	B												
KG2BI	4,968	46	36	32	B												
N2LEB	546	14	13	B													
WB2ZTH	146,205	285	171	C													
W2MOY	66,054	218	101	C													
KG2FH	15,480	86	60	C													
N2KA	14,742	78	63	3	20												
WA2AKU	20,130	122	55	B	80												
WB2AMU	3,078	38	27	B	40												
K2MF	38,532	169	76	6	20												
WB2BTJ	26,070	155	55	B	20												
K2SG	21,168	126	56	4	20												
N2LDV	5,775	55	35	B	20												
N2MBM	1,800	30	20	B	20												
WA0KIR	1,782	27	22	B	15												
Northern New Jersey																	
AA2U	164,496	368	149	A													
WA0QOA	333,564	532	209	B													
K2SG	154,488	314	164	B			</										

N7PNK	22,119	101	73	33	B	W9LNQ	24,408	113	72	B	VE3SKX	4,059	41	33	C	WB5B	200,070	351	190	C					
KD4HXT/7	9,657	87	37	5	B	WD9DDO	18,468	108	57	B	VA3MM	485,682	1327	122	B	K5LP	102,000	250	136	C					
KC7GHP	2,574	33	26	10	B	WX3N/9	13,284	82	54	B	VE3KUK	165,252	586	94	C	W5ASP	64,218	278	77	20	C				
K7LS	2,175	29	25	5	B	N9RIT	9,720	72	45	B	VA3WTO	59,052	266	74	B	N7XX	33,264	126	88	B					
AA7VY	191,880	410	156	—	C	N9GE	9,072	63	48	10	B	VE3LYC	20,355	115	59	B	6	365,715	587	215	C				
KE7PE	38,394	162	79	—	C	KD9XP	5,148	44	39	B	VE3HX	180	12	5	C	10	345,912	586	203	C					
N7DD	196,854	763	86	—	C	KB9CYL	5,106	46	37	B	Manitoba	VE4AAU	8,643	67	43	B	KC6X	262,248	446	196	C				
WA7IVZ	99,600	415	80	—	C	KA9HDN	3,045	35	29	B	VE4RP	39,825	177	75	C	KV6H	241,425	435	185	21					
W7AVY	36,423	171	71	—	C	K9ZO	231,132	412	187	C	Saskatchewan	VE5SF	108,756	318	114	B	AB6WD	231,678	366	211	C				
AA7WD	990	30	11	5	B	K9DN	120,600	300	134	C	VE5GC	15,732	92	57	B	N6CCL	178,200	360	165	C					
WA7KLK	3,843	61	21	—	C	N9LCR	112,095	265	141	C	VE5AEQ	990	22	15	7	N6OU	109,440	285	128	C					
Eastern Washington						KA9DM	48,276	149	108	C	VE6BMX	264	11	8	2	W6AQ	106,218	281	126	C					
K7EFB	4,608	48	32	—	B	WB9Z	16,695	105	53	C	VE6DBH	18,144	126	48	B	KT6V	71,424	192	124	C					
Idaho						K9HMB	48,108	211	76	C	WA6TLA	5,550	50	37	C	NZ6N	9,702	66	49	C					
KJ7TH	113,490	291	130	—	B	W9PNE	3,828	44	29	B	7														
WA0DYU	27,225	121	75	—	C	K9KU	239,775	695	115	C	KATZUM	286,767	559	171	C	W7OM	250,848	536	156	B					
AA7UN	82,239	347	79	—	B	K9DX	208,161	687	101	C	KC7V	212,940	507	140	C	W7TPD	157,080	374	140	C					
Montana						K9QB	68,388	278	82	B	AA7WP	22,563	109	69	C	K6SG	178,200	360	165	C					
K7LUH	166,044	404	137	—	B	W9OF	67,854	263	86	C	8														
KC7UP	58,140	204	95	—	C	W9BNR	28,143	159	59	C	KAZTRUM	286,767	559	171	C	W8IMF	4,830	46	35	C					
AA7BG	57,528	188	102	—	C	WD9FEN	15,048	88	57	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KC7LSK	15,087	107	47	—	C	WA9BOW	17,061	121	47	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
K7ABV	2,475	33	25	—	C	NM9C	16,074	114	47	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
N9ITX/7	217,515	853	85	—	C	KO9Y	76,986	282	91	B	9														
N7MSU	18,564	119	52	—	C	K9JC	48,822	158	103	C	KAZTRUM	286,767	559	171	C	W8IMF	4,830	46	35	C					
Nevada						K9JW	28,776	109	88	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
N7XCV	4,860	60	27	—	A	K9DW	15,252	86	59	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
K6ELX/7	137,013	419	109	—	C	W9JO	27,126	137	66	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KC7DB	93,024	272	114	—	C	WA9PYH	2,460	41	20	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
AA8CY	16,500	100	55	—	C	AA9IX	3,918	18	24	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
Oregon						W9QK	3,744	52	24	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
W7YAO	254,310	400	173	—	B	1															W8IMF	4,830	46	35	C
W7WHY	126,351	303	139	—	B	W9PYH	2,460	41	20	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
WA7JTH	16,350	109	50	—	B	AA9CG	23,214	146	53	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KC7DK	67,731	211	107	—	C	W9QK	3,744	52	24	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
AA7FL	33,069	151	73	—	C	2															W8IMF	4,830	46	35	C
N7NNL	9,768	74	44	14	C	W9RN	97,890	251	130	C	KAZTRUM	286,767	559	171	C	W8IMF	4,830	46	35	C					
KC7EM	193,344	433	126	—	C	W9XT	17,628	113	52	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
WA7FAB	166,752	579	96	—	C	N9IC	3,627	39	31	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
W7FP	69,312	304	76	—	B	W9GX	8,778	77	38	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
Utah						K9JX	6,324	62	34	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
AB7GM	5,100	68	25	—	C	K9YNF	51,984	228	76	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
K6XO/7	183,180	430	142	—	C	W9GIL	17,820	132	45	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
W7HJS	66,126	206	107	—	C	WF9VJ	2,736	38	24	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
WA7MTF	23,055	145	53	25	C	3															W8IMF	4,830	46	35	C
Western Washington						KB0SRY	714	17	14	A	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KB7PKC	35,040	160	73	38	B	KG0ZI	58,320	243	80	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
AB7ER	4,611	53	23	23	B	KO9JK	25,842	118	73	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
WA7FOE	601,650	955	210	—	C	W9JX	14,228	93	51	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
K7TXS	317,889	741	143	—	C	W9RN	97,890	251	130	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
N7RTO	142,890	433	110	—	C	W9XT	174,188	354	164	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
W7GSW	100,548	266	126	—	C	KO9AS	98,154	266	123	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KA7KUZ	22,479	127	59	—	C	WD9QAA	1,620	27	20	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
N7TT	381,609	167	109	—	C	W0UN (W0UA,op)	140,220	615	76	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
W7VIH	759	23	11	—	B	WB8QFB	119,349	447	89	C	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
Wyoming						KO9WV	2,565	57	15	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
NO7Q	8,694	63	46	—	C	W0WPL	25,347	119	71	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
KB7M	1,080	24	15	—	C	W0SPF	13,695	83	55	B	W8IMF	4,830	46	35	C	W8IMF	4,830	46	35	C					
Michigan						KB0SQM	6,138	62	33	20	B	W0ML	118,035	305	129	C	W8IMF	4,830	46	35	C				
KB8KG	172,770	443	130	—	C	KO9EV	6,765	55	41	B	KO9JK	204,672	164	105	C	W8IMF	4,830	46	35	C					
KC7CV	43,758	187	78	—	C	W0ML	118,035	305	129	C	W0ML	204,672	164	105	C	W8IMF	4,830	46	35	C					
N8LYM	58,275	185	105	—	C	KO9T	31,725	141	75	C	KO9T	152,440	173	111	C	W8IMF	4,830	46	35	C					
N8QVP	42,465	149	95	—	C	KC9EJ	1,620	27	23	B	KO9T	152,440	173	111	C	W8IMF	4,830	46	35	C					
KGB8ON	32,943	139	79	—	C	W0RXL	19,497</																		

KF6A (+KJ6TC,NV6O)	567,720	830	228	C	W3MM (+KF3B)	1,136,067	1049	361	C	9A1CRJ	20,685	197	35	C 40	HG1H (HA1TJ,op)	86,856	616	47	C 20		
WB6IRC (+W6OAT)	454,167	623	243	B	VE5RI (+ope)	282,735	515	183	C	9A7A	203,550	1150	59	C 20	HAMBIB	82,296	508	54	C 20		
WE6EEN (+KE6XCG)	410,481	661	207	C	K3JLJ (+KE3VQ,N9NMP)	115,962	251	154	B	9A3UF	2,142	42	17	B 20	HA3MQ	46,818	306	51	B 20		
WA6TKV (+KD6KPK)	333,504	576	193	C	DX					Portugal					HA7RC	12,960	120	36	C 20		
N6KI (+KC2MB,N2MAU,NA6JZ)	267,036	476	187	C	Single Operator					CT1EAT	120,879	363	111	B	HA8ZQ	11,448	106	36	C 20		
WA6AHF (+KF6ADM,W6TEX)	28,350	126	75	C	Africa		CT1BGE	4,929	53	31	B	HA3GU	5,850	75	26	C 20					
KQ6AG (+KC6YKJ,KE6TJX)	21,708	134	54	B	Zambia		CT1AUO	68,340	268	85	C 20	HA6NW	4,950	66	25	B 20					
7	KJ7PNH (+KB7FGN)	124,227	321	129	C	9J2FR	138,450	650	71	C	CT1EBB	125,400	760	55	C 20	HA5CQ	2,223	39	19	B 20	
N8AX (+op)	18,902	107	62	C	Zaire		CT1ERY	73,320	520	47	C 20	HA3GQ	561	17	11	B 20					
K7NWS (KB7VMS,N7GVO,WB7AEI,ops)	4,050	54	25	B			CT1ELP	37,023	287	43	B 20	HA1VE	507	13	13	C 20					
KJ7TO (+WB2UFO)	378	14	9	3 C										HG1G (HA1DAE,op)	3,000	20	50	C 15			
KA7PNH (+KB7FGN)	124,227	321	129	C	9R1A (PA3DZN,op)	7,776	96	27	B 15					Switzerland							
N8AX (+op)	18,902	107	62	C	Burundi									HB9RG	1,680	40	14	C 160			
K7NWS (KB7VMS,N7GVO,WB7AEI,ops)	4,050	54	25	B	Botswana	41,814	303	46	B 15	CU3FQ	679,500	1500	151	C	HB9FAP	61,662	478	43	C 40		
KJ7TO (+WB2UFO)	378	14	9	3 C	A22BW	151,194	446	113	C	CU2CE	28,560	238	40	B 160	HB9HFN	30,381	247	41	C 20		
8	KA6AZ (+K6NZ,KD9TA,W8KHK,W78C)	1,526,657	1779	361	C	Canary Islands		CU3YE (N7NUA,op)	252	14	6	B 20					Italy				
K8CC (+AA8UG,K8GL,V3NA)	1,555,965	1461	355	48 C	EA8BR	187,050	1075	58	C 80	DL8SDC	15,744	128	41	B	IK1RLI	82,560	320	86	B		
AA8UA (+AA8BN)	149,814	287	174	33 C	EA8PP	91,800	600	51	C 80	DL5PW	10,920	91	40	B	IK0YUT	66,555	261	85	B		
KA6AZ (+K6NZ,KD9TA,W8KHK,W78C)	1,526,657	1779	361	C	EA8KK	88,140	565	52	C 20	DL5WS	7,821	79	33	B	IK7RVY	36,432	184	66	B		
EA8BXQ	1,836	34	18	B 15	EA8BXQ	1,836	34	18	B 15	DL8PC	41,471	1047	131	C	IK0YVV	35,154	189	62	B		
KA6AZ (+K6NZ,KD9TA,W8KHK,W78C)	1,526,657	1779	361	C	Ceuta & Melilla		DL2DXX	273,408	1024	89	C 20	IK4MWB	24,426	118	69	B					
AA8UA (+AA8BN)	149,814	287	174	33 C	EA9IE	1,225,008	2172	188	C	DL3LAB	24,360	232	35	C 80	IK2RPE	8,256	86	32	B		
KA6AZ (+K6NZ,KD9TA,W8KHK,W78C)	1,526,657	1779	361	C			DL5BU	22,176	231	32	C 20	IC4SP	8,040	67	40	B					
9	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL4YAO	6,162	79	26	9	IK8WEJ	4,284	51	28	B				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL5AU	27	3	3	C 40	IT9ORA	3,498	53	22	B				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DF9ZP	234,525	1325	59	C 20	IO4A	280,368	792	118	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DP7U	131,058	809	54	C 20	IN3ZNR	205,068	743	92	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DA1US (DF1C,op)	47,388	359	44	C 20	IN6OA	76,446	274	93	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL4YK (KY4T,op)	23,490	174	45	B 20	IK6GPZ	44,604	236	63	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL1JPL	10,608	104	34	C 20	IV0TCI (IOKH,op)	44,400	185	80	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL6DVU	9,021	97	31	C 20	IT9AJP	9,504	88	36	C				
	NO9Z (+KF9PL,W9SZ)	283,968	493	192	C			DL8UVG	2,016	42	16	C 20	IK6WEB	1,386	33	14	C				
10	KA8JSU (+N0UJT)	174,846	362	161	B			DJB9X	1,800	30	20	B 20	IA4VG	106,122	769	46	C 80				
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK8R (IRIZ,op)	118,092	757	52	C 40			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IR4R (IK4ALM,op)	60,630	430	47	C 40			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IR1A (IK1GPG,op)	60,600	404	50	C 40			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IQ8X (IK8UND,op)	20,709	177	39	C 40			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IT9STX	193,107	1091	59	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IQ4G (IGHW,op)	127,542	733	58	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK3STG	65,808	457	48	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK3OII	13,335	127	35	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK2HKT	11,016	108	34	C 20			
11	KB0JSU (+N0UJT)	174,846	362	161	B									IK3OGL	9,000	100	30	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IT9CML	7,533	81	31	B 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK1RQQ	6,240	65	32	B 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK7WPD	3,339	53	21	B 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IV3BKH	2,898	46	21	C 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IK3QPQ	324	12	9	B 20			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									Sardinia							
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IS9NH	60,450	310	65	B			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IS9LLJ	1,800	30	20	B			
	WA0ASM (+WD0EGK)	19,800	100	66	11 C									IS9GSR	19,440	144	45	C			
12	KJ8FV (+W6OAT)	3,728,100	2924	425	C										Svalbard						
	K4ISV (+WB4FLB,N16L,K9V)	3,253,800	2552	425	C									JW8GV	67,944	298	76	C			
	K5K9H (+PSW9N,NA9U,NB9C,WB9TY)	2,841,258	2218	427	C									Norway							
	W1FJ (+K1JKS,NB1B,W1K1M,K2A)	2,465,652	2086	394	C									LAE1IA	264	11	8	C 160			
	K2W2R (+NJ1F,K26 ONP,TR)	2,114,574	1771	396	C									LA6BBA	8,010	89	30	C 20			
	W5KFT (+A5R5B,WB5VZL)	2,084,262	1786	389	C									LA2JR	4,536	56	27	B 20			
	W3GNQ (+K3SKE,W3Z2J,W3AWJ,WR3Z,WA6DC)	1,709,712	1532	372	C									LA2SJ	1,980	33	20	B 20			
	KO4EW (+KQ4HC,W6K6U,K0EJ)	1,298,700	1332	325	C									LA5JX	1,350	25	18	B 20			
	KB1H (+AA1CE,K1s DWB,WA1TJ,WT15)	1,149,876	1053	364	C									Luxembourg							
	K3II (+N3BDA,WB5ESS)	1,149,876	1053	364	C									LX1JH	3,243	47	23	B			
	K3II (+N3BDA,WB5ESS)	1,149,876	1053	364	C									LX1KC	249,984	744	74	C 20			
13	WS4WF (+AB4RU,AE6E,KE4ZOD,N3Z)	1,074,450	1102	325	C									Lithuania							
	W3USS (K3ZJ,JH1NTN,ops)	1,041,288	1099	304	C									LY2BTA	1,296	27	16	B			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY1FW	144	8	6	C 160			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY1DS	64,800	42	50	C 20			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY2Z0	49,128	356	46	C 20			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY3BA	39,861	309	43	B 20			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY1DR	2,700	50	18	C 20			
	WY2CR (VY2E GJ,WB9J,GW9J,ROB,SA,ops)	569,295	897	245	C									LY3BY	1,632	34	16	B 20			
	Multioperator Unlimited Transmitters	86,670	214	135	C									Bulgaria							
	W3LPL (+K1RZ,WB2Q,WM2H,K3s MOH,RA,RT,KE3Q,KE3P,NA3GB,ND3F,WE5NOKR)	5,065,551	3435	489	C									LZ2K	105,000	625	56	C 20			
	K1RX (+K1s FWE,TR,WTF,XM1,KX1,WT15)	3,979,152	2928	453	C									LZ1KPP (L21GL,op)	4,290	65	22	B 20			
	N3RS (+KY2T,N3s AD,ED,RD,W3UM)	3,717,720	2694	460	C									LZ2OG	3,102	47	22	B 20			
	N2NT (+KZ2S,N2NU,W2GD)	3,144,330	2415	434	C									LZ2RS	480	16	10	B 15			
	W4MYA (+AD4TS,KB4D,KB4Cs AUF,ZRH,KD4JXY,KJ4VG,K54R,WA4DAI,WB4GVZ)	2,663,199	2079	427	C									Austria							
	W4MYA (+AD4TS,KB4D,KB4Cs AUF,ZRH,KD4JXY,KJ4VG,K54R,WA4DAI,WB4GVZ)	2,663,199	2079	427	C									OEM1WWL	684	19	12	C 20			
	N2RM (+K2AE2V,KE2P,KZ2S,N2s AA,BCC,NT,W2R,WB2K,W7Q)	2,667,204	2068	402	C									Finland							
	OD5NJ	77,760	320	81	B									OIBLQ	204,660	1137	60	C 20			
	Asiatic Russia																				

OZ1BUR	3,960	55	24	B	20
OZ4NA	2,052	36	19	B	20
Netherlands					
PA6ADP	27,873	163	57	B	
PA3FNE	12,840	107	40	B	
PA3ENK	3,948	47	28	B	
PA3ERC	110,376	438	84	C	
PA3EWP	50,151	226	73	C	80
PA6JLM	10,875	125	29	C	80
PA6KDM	5,148	66	26	B	20
PA6SMS	3,726	54	23	B	20
PA3GPQ	2,898	46	21	B	20
PA3GKE	2,793	49	19	C	20
PA6ASN	1,104	23	16	B	20
PA6DJ	900	20	15	B	20
PA3BPP	330	11	10	B	20
PA3GXD	36	4	3	B	20
Slovenia					
S59D	3,240	45	24	A	
S5K1ZZ	117,420	412	95	C	
S53BM	66,732	332	67	C	
S59Z	10,668	127	28	C	160
S57O	50,307	409	41	C	80
S59DBC (S55OO,op)	109,950	733	50	C	40
S53M	192,096	1104	58	C	20
S54ZZ	154,908	993	52	C	20
S50R	126,027	737	57	C	20
S51DX	103,290	626	55	C	20
S55A	91,530	565	54	C	20
S57T	84,111	529	53	B	20
S59L	5,850	78	25	B	20
S54E	3,132	58	18	B	15
Sweden					
SM5IRV	10,413	89	39	C	
SM7DXQ	12,600	120	35	C	20
SM5ALJ	9,312	97	32	C	20
SM6BDS	2,166	38	19	B	20
SM7HSP	273	13	7	B	20
Poland					
SP7GAQ	31,842	174	61	B	
SP1MHV	3,276	42	26	C	
SP7VCK	15,288	182	28	C	80
SP6LUV	5,400	72	25	C	80
SP5JTF	648	24	9	B	80
SP6CDK	7,533	93	27	C	40
SN2B (SP2FAX,op)	262,056	1432	61	C	20
SP5GRM	194,040	1078	60	C	20
SP5ZIM	21,000	175	40	B	20
SP6MLX	7,830	87	30	B	20
SP2QCH	6,750	90	25	B	20
SP9MAV	6,474	83	26	B	20
SP3XR	3,975	53	25	B	20
SP9RVD	3,969	63	21	B	20
SP8OON	3,087	49	21	B	20
SP2CYK	2,376	44	18	B	20
SP5BB	2,256	47	16	B	20
SP4SHD	1,938	38	17	B	20
SP6EJY	480	16	10	B	20
SP6DVP	36	4	3	B	20
Greece					
SV6AN	126	7	6	B	40
SV2BPN	11,160	120	31	C	20
SV2YC	5,046	58	29	B	20
SV2CWY	648	18	12	B	15
Bosnia-Herzegovina					
T93M	72,000	600	40	C	80
T94ON	8,925	119	25	C	15
Kaliningrad					
UA2FJ	46,620	444	35	C	80
European Russia					
RA6AX	450	15	10	C	180
UA3DPX	1,512	36	14	C	80
RV1CC	48	4	4	C	20
RA3AO	35,154	279	42	C	20
UA3ABJ	18,468	162	38	B	20
RA1W	18,012	158	38	C	20
UA1CKC	15,048	132	38	C	20
RA3WA	14,904	136	36	C	20
UA4HEJ	6,030	67	30	C	20
UA4SKW	897	23	13	A	20
RZ6LG	627	29	11	B	15
Ukraine					
US1I	87,210	342	85	C	
UU0J (UU0JZ,op)	37,572	202	62	C	
UY5ZZ	9,000	125	24	B	80
UT4UZ	8,346	107	26	C	80
UT7ND	5,796	92	21	C	80
UT3UA	2,970	55	18	C	80
USWF	2,745	61	15	C	80
URSWA	143,724	812	59	C	20
UR0D (UT7DX,op)	108,405	657	55	C	
UX2VZ	4,278	62	23	B	20
UX1UA	3,762	57	22	C	20
UY3QW	273	13	7	C	20
UT1ZZ	3	1	1	B	15
UT8I (UT8IM,op)	240	10	8	B	15
Latvia					
YL2EC	756	21	12	B	20
Romania					
Y03FRI	42,432	221	64	C	
Y05CUQ	693	21	11	B	20
Y05BQ	6	2	1	A	20
Yugoslavia					
YT7TY	990	30	11	B	80
YT7A (YZ7UN,op)	82,368	528	52	C	40
4N0AV (UY7AV,op)	263,520	1464	60	C	20
YT1AD (Z32MM,op)	223,380	1241	60	C	20
YU1AXY	10,815	103	35	B	20
YU1IGN	1,305	29	15	A	20
YU7SF	432	16	9	C	20
4N1Z (YU1QL,op)	1,674	31	18	C	15
YU7KU	360	12	10	B	15
North America					
Jamaica					
6V5DA	1,312,605	2315	189	B	
6V5JA	897,141	2513	119	B	
St. Pierre & Miquelon					
FP/LA1TV	759	23	11	B	20
Haiti					
9A3A/4U	228,153	1289	59	C	80
Panama					
HP1DGX	210,420	835	84	B	
HP3XUG	174,945	535	109	B	
Honduras					
HR6/N4MO	272,664	1623	56	B	20
J37K (W8KKF,op)	2,774,358	3714	249	S	80
Grenada					
LW4HAW (LU3HIP,op)	176,331	1109	53	C	10
KL7Y	60,150	401	50	C	40
Alaska					
KL7Y	60,150	401	50	C	40
Puerto Rico					
KP4DBB	353,472	1052	112	A	
WP4LNY	113,850	759	50	B	15
Greenland					
OX3KV	1,296	27	16	B	20
St. Maarten Sab. St.Eustatius					
PJ7/K2KTT	15,660	145	36	B	15
Guatemala					
TG9IKN	266,685	773	115	14	B
W7TSQ/T15	106,236	681	52	C	15
Costa Rica					
TI1C (TI2CF,op)	6,993,882	7086	329	C	15
VP7V/T15	1,200	106	236	B	20
Antigua & Barbuda					
V26AS (YT1AD,op)	4,732,008	5554	284	C	
Belize					
V31PL (AA1M,op)	3,948	47	28	S	8
V31RN	13,680	120	38	S	8
St.Kitts & Nevis					
V44NK	835,251	2003	139	C	
British Virgin Islands					
VP2V/K9A	702,000	3900	60	C	20
Turks & Caicos Islands					
VP5X (WE3C,op)	5,235,852	5977	292	C	
Mexico					
XE3LMN	659,349	1201	183	B	
XE2/K7OZ	112,749	413	91	B	
XE2AC	3,198	41	26	B	80
XE1BEF	40,152	239	56	B	20
Cayman Islands					
ZP2ND (KF6OG,op)	139,200	800	58	C	160
Oceania					
MX4NDE/DU3	648	24	9	B	20
DU1SAN	12,744	177	24	C	20
Philippines					
F05IW	771,786	1618	159	B	
Hawaii					
WB8FZH/KH6	15,840	120	44	A	
W2HPF/KH6	5,658	82	23	B	
WB8R/KH6	3,981,735	4657	285	C	
KH6FKG	141,759	829	57	C	40
WH6CQH	290,871	1701	57	C	20
AH6IM	53,730	398	45	B	15
American Samoa					
AH8A	276,024	1643	56	C	15
Australia					
VK8DX	111,636	443	84	C	
VK1FF (WB2FFY,op)	1,326	26	17	S	8
VK2ARJ	84,816	589	48	C	20
VK3DXI	33,885	251	45	C	20
VK2APK	24,768	192	43	C	20
Indonesia					
YB2UDH	414	23	6	C	40
YC0LW	45	5	3	B	40
New Zealand					
ZL2AMI	138,930	421	110	C	
ZL1HY	756	18	14	C	160
ZL1RS	103,545	585	59	C	80
ZL1ANJ	6,840	152	15	C	10
South America					
Trinidad & Tobago	203,616	707	96	C	
9Y4NZ	203,616	707	96	C	
Chile					
CE8SFG	746,376	1816	137	21	C
CE3CB (CE3BFZ,op)	5,616	72	26	C	40
CE6SAX	92,352	592	52	C	40
CE5CNT	223,197	1611	59	B	15
CE6NES	79,182	498	53	B	15
Bolivia					
CP6/OH0XX	1,613,145	2623	205	C	20
CP1FF	9,360	120	26	B	20
Ecuador					
HD2RG	639,639	1001	213	C	
HC1HC	134,166	758	59	C	80
HC1OT	318,594	1831	58	C	20
Galapagos Islands					
HC8N (WN4KKN,op)	7,177,500	7250	330	C	
Colombia					
HK3JJH	496,314	1313	126	B	20
HK4QJH	280,782	1642	57	C	15
Argentina					
LU5EWO	491,820	1171	140	B	
L44D (LU4DFH,op)	378,780	1070	118	B	
LW1DIP	28,050	275	34	B	
G0FUS (G4ZVJ,G7LXK,G0s DBU,LUJ,SBR, UDT,VYH,WIF,ops)					
9A1BHI (9A2FK,9A3 AM,VM,9A4SG,ops)	210,288	674	104	C	20
9A2LBI (9A2FK,9A3 AM,VM,9A4SG,ops)	209,352	107	104	C	20
EA3RKG (EA3s BOW,BOX,DQG,EIO,ops)	179,550	630	95	C	20
IO2L (I2OKW,IK2s PIQ,OEI,ops)	140,400	600	78	C	20
SK2KW (SM2s AWG,LIV,NOG,ODB,VHD,ops)	135,048	662	68	C	20
EA1BD (+EA1EB)	50,688	256	66	C	20
LY3MR (LY1FF,LV2s BKF,BILLY,NFW,ops)	42,804	246	58	C	20
OM2I (OM1s KW,MW,RW,YL,ops)	40,992	224	61	C	20
OL2A (OK2s HBY,PDK,PEM,ops)	3,697,950	4450	277	C	20
OT6U (ON4LAM,ON5OO,ON6QR,ON7PC,ops)	6,				