

# Results, 1992 ARRL International DX Contest

There is a tide in the affairs of men, which, when taken at the flood, leads to fortune.—*Shakespeare*

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Contest Manager Assistant Contest Manager

The RF "tide" was high during this year's DX Contest and thousands of participants took the chance to get their feet wet. Many felt that the conditions were reportedly the best ever. Judging by the remarks we received, the level of enthusiasm was as high as the MUF. Hams all over the world joined to make this the premier ham radio operating event—an event no contester wants to miss.

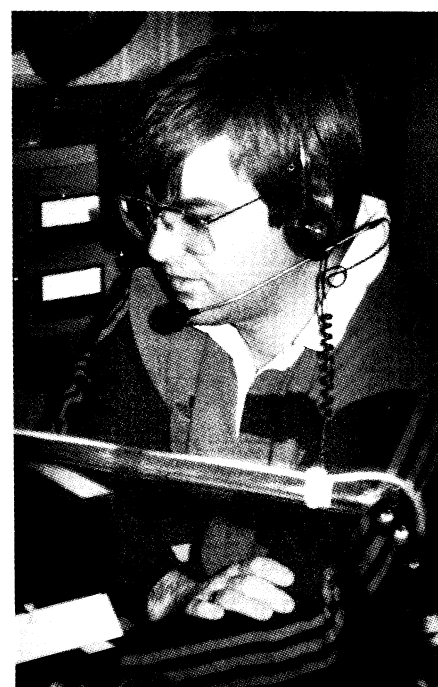
It's not hard to understand why this year's contest was so popular. Propagation was just about perfect. Just as we thought Cycle 22 had shown us its best stuff, it came back. Solar flux numbers reached 202/200 for the CW contest and 159/182 during the phone weekend. These numbers are phenomenal for this stage in the solar cycle. Even more important, the crucial K index of geomagnetic activity never rose above 3 during either contest. In fact, it was at zero at several points. This provided quiet conditions that translated into lots of points for everybody. Our computer data bases pointed out that the average entrant worked 647 stations and 152 multipliers.

Every DX contester should have been on the air during this year's contest. There

were choice DX stations that were easy to work, including 7Q, 5U, FO0, VQ, and VK9. Van, WC5D, reported, "Even 80 meters was open for us little pistols!" Andrew, KF5QR reported working HZ1HZ on two bands with five watts. Henry, N6AZE, exclaimed, "I can't believe I worked 40 countries in less than 24 hours using only 'search and pounce!'" It was easy to run stations. TIIC averaged more than 200 QSOs per hour over the 48-hour period. If you weren't on the bands, you missed a lot of fun.

Not only is this contest popular among W/VEs, but it's big overseas, too. Much of this is because of the "professionalism" of W/VE hams. Andrew, GI0NWG, complimented, "It was an enjoyable contest with operating standards better than usual, which says something about the W/VE operators." Mark, JJ1TBB, remarked, "I learned good operating tactics from the W/VE operators."

A side effect of the great conditions and excitement this contest generates has been a narrowing of the gap between the top-scoring stations. On CW, Jeff, KR0Y, operating at WM5G, topped Bob, KQ2M,



Randy, K5ZD, traveled to VE3EJ in Ontario for his second-place phone effort.

## TOP TEN

### W/VE CW

Call	Score	160	80	40	20	15	10
WM5G (KR0Y,op)	3,954,411	10/10	85/40	427/84	977/89	646/93	1016/101
KM1H (KQ2M,op)	3,940,596	22/20	212/51	405/67	851/83	763/85	1064/89
K12M	3,736,665	29/26	112/49	507/84	642/93	723/95	786/98
K3LR	3,549,312	15/14	46/32	363/72	1151/90	551/84	955/92
N2LT	2,997,000	11/11	58/32	408/67	768/73	756/89	774/88
K3ZO	2,964,528	5/4	123/45	415/67	747/75	599/84	879/82
KW8N (WD8IXE,op)	2,919,168	18/18	86/43	265/62	869/70	701/81	749/88
W1KM	2,871,939	0/0	274/55	401/59	892/80	567/70	657/79
NA8V	2,729,688	14/13	47/33	351/61	884/75	648/79	748/77
N6BV/1	2,652,468	11/10	89/34	400/62	839/82	611/79	598/80

### W/VE Phone

Call	Score	160	80	40	20	15	10
KM1H (KQ2M,op)	4,932,396	18/13	101/41	161/55	1007/111	1043/118	1373/106
VE3EJ (K5ZD,op)	4,496,832	18/12	99/41	211/68	966/89	1206/108	1052/104
K4XS	3,914,295	9/8	46/32	98/42	1070/107	1000/103	1166/93
K3OO	3,868,368	12/11	67/34	87/43	829/94	972/112	1209/112
W9RE	3,600,030	8/8	55/35	71/48	741/87	867/112	1256/105
K3ZO	3,320,964	6/5	90/30	156/50	813/71	861/94	1295/98
K1RU	3,079,440	9/8	52/34	89/42	729/80	836/102	1105/98
N2RM (WM2H,op)	2,998,269	15/14	67/35	108/47	714/86	607/91	1126/106
W2HPF	2,876,949	6/6	48/28	135/51	581/81	810/103	991/104
KA5W (KS1G,op)	2,867,400	10/6	27/23	125/41	662/98	678/92	1153/100

### DX CW

Call	Score	160	80	40	20	15	10
V27T (YU1RL,op)	4,527,711	101/38	293/49	562/57	924/58	1340/57	1541/58
P40M (K5GO,op)	4,428,216	301/49	501/56	600/58	800/60	854/60	1260/59
PJ2J (W1WEF,op)	4,396,098	225/45	466/53	663/54	650/60	1197/59	1230/59
K5NA/KP2	4,369,680	260/46	574/55	586/59	664/59	963/59	1288/58
ZD8Z (N6TJ,op)	4,242,381	84/30	402/52	633/57	856/60	1048/60	1410/60
ZF2QV (KT6V,op)	3,695,328	128/38	340/47	497/51	815/56	922/61	1246/59
J37ZR (K1RM,op)	3,660,768	29/19	257/44	617/52	798/58	1036/56	1500/59
8P9CP (KD6WW,op)	3,436,914	117/37	402/52	533/54	687/59	848/58	1033/57
NH6T (W0ZZ,op)	3,119,364	74/32	360/53	470/50	566/56	814/57	1122/58
XE1/AA6RX	2,877,846	0/0	300/49	454/51	711/57	790/59	1019/59

### DX Phone

Call	Score	160	80	40	20	15	10
T11C (N6KT,op)	9,619,584	152/38	554/54	565/56	1803/59	1956/60	4746/61
VP5C (KD6WW,op)	8,312,616	166/41	572/57	443/54	1266/60	1639/60	4260/60
K1DQV/KP2	4,665,000	97/31	364/54	408/50	840/58	1010/59	2281/59
WR6R/KH6	4,595,904	80/22	343/54	512/53	530/55	940/59	2651/60
J7D (VESRA,op)	4,505,631	57/19	276/51	721/55	403/58	939/58	2627/58
K6GSS/KH6	3,829,230	17/8	265/47	482/53	577/51	695/55	2659/57
HC1OT	3,771,348	0/0	200/49	349/51	635/56	1447/58	2095/59
F24UK	3,310,704	2/2	97/30	368/42	1103/58	1252/58	1612/59
Y5MCD	3,197,880	1/1	295/49	396/48	862/56	1408/59	986/57
OK1ALW	3,069,372	0/0	94/22	277/38	1234/57	893/57	2090/49

**W/VE Single-Operator Assisted**

CW							Phone								
Call	Score	160	80	40	20	15	10	Call	Score	160	80	40	20	15	10
WB2Q	4,604,574	36/29	180/62	446/94	853/91	694/105	898/113	NZ7E (K13V,op)	4,050,954	10/8	58/30	254/40	838/96	1176/113	1023/115
N4RJ (KM9P,op)	4,421,520	27/27	95/50	277/79	1082/100	849/104	874/100	K3WWW	3,178,197	21/19	46/41	104/68	763/103	637/108	778/112
K3WWW	4,158,168	25/24	85/49	400/81	1000/109	598/99	860/105	N4WWW	2,850,408	0/0	31/28	64/39	654/75	1010/107	925/105
W2GD	3,005,796	26/26	109/58	346/84	604/95	435/99	644/101	K3IPK	2,826,414	13/13	43/38	90/66	810/103	553/107	642/111
N3AD	2,939,418	19/19	78/46	287/83	799/102	528/95	526/93	K1TO	2,790,900	9/9	43/34	62/46	637/100	892/121	572/110
AA2Z	2,885,325	10/10	51/43	362/78	492/92	619/100	729/102	N3AD	2,650,455	16/13	47/38	153/68	646/99	489/106	680/111
NZ7E (K13V,op)	2,845,248	9/8	96/31	407/84	661/91	648/94	515/98	N1GLJ4	2,577,744	15/13	54/38	73/50	500/98	764/104	700/105
WR3G/B	2,842,800	15/14	39/31	229/71	863/88	515/94	708/102	N5FZ	2,310,147	12/9	41/27	183/48	587/87	673/87	661/99
K3IPK	2,785,200	13/13	68/47	299/77	771/98	508/90	541/97	K1IU	2,104,869	5/5	37/34	56/55	231/85	561/110	851/114
K1IU	2,664,684	10/10	46/40	275/71	496/81	590/91	826/103	WB2K	2,030,751	2/2	46/42	79/58	467/91	335/100	718/118

at KMIH's station, by a mere 13.8k! Think of it—two people from different parts of the country battling it out for 48 hours, to finish separated by just 12 QSOs or 2 multipliers. Bob fared better on phone, however, defeating Randy, K5ZD, who had traveled north to operate at VE3EJ.

In the multioperator, single-transmitter competition, Steve, W3BGN, and his crew narrowly cranked out another win on CW. Fred, K1VR, and his ops came in second, falling short by a mere 19k. He complained, "I can't believe we broke the all-time record for the second year in a row, and still lost—Arrgh!" There were other close duels, with NQ4I edging out K3LR in the multi-single class on phone and N2RM narrowly defeating W3LPL on CW in the multioperator, unlimited competition.

Single-banders had their moments, too. Dan, K1TO, set a new record on 20 meters during the CW weekend. The phone contest saw records eclipsed on four out of the six bands. Steve, KC7EM, demolished the 40-meter phone record; John, KK9A, edged out the old record on 20 and Dave, K2SS, did the same on 15 meters. Kudos also to George, W0UA, who set records in both modes on 10 meters.

Outside the US and Canada, the CW contest was a barnburner, with the top five single-operator high-power entries coming in with more than four million points. Radivoje, YU1RL, operating as V27T, finished on top of the heap, with Steve, K5GO, at P40M, and Jack, W1WEF, at PJ2J, trailing close behind. On phone, Richard, N6KT, operating TH1C, put up truly phenomenal numbers on the top three bands to post an incredible score of 9.6 million points, a new record. Bruce, KD6WW, operating as VP5C, must be wondering what it takes, as his 8.3 million score was only enough for second place.

More Novices and Technicians are getting in on the action—46 Novices and Tech-

nicians took the plunge on phone, with KC6ETY winning the top honors and the plaque. Don, KC4TIR, repeated his triumph of last year on CW, with five others braving the elements to turn in scores.

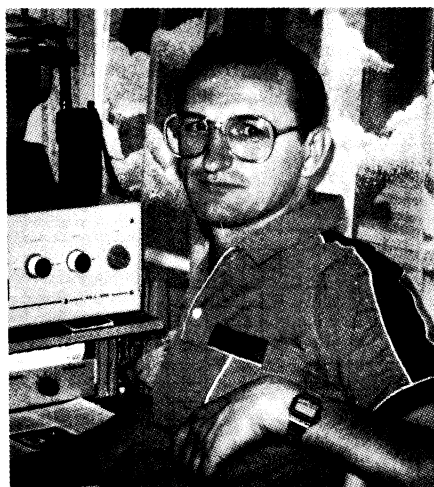
The extra week caused by leap year created some problems. Many who traditionally travel on DXpeditions for both modes had to limit their travel to just one or the other this year.

The ARRL Affiliated Club competition saw familiar names winning gavels this year, with the Frankford Radio Club once again outdoing the rest of the unlimited class, finishing with 202 million points. The North Coast Contesters may be starting the same trend in the medium class, winning for the second straight year. In the local club competition, the River City Contesters reigned supreme. Congratulations to all

who made the effort to help their club in the contest. Several clubs weren't listed this year, as they didn't meet the ARRL Affiliated Club Competition criteria, published in January *QST*. If your club wasn't listed, make sure your club is an active, affiliated club and had at least three entries.

We'd like to thank those of you who sent in your entries on disk this year. This sped up the process a great deal. We found, however, common mistakes made among those who used computer logging. These were mostly human errors. Many people neglected to keep their country files up to date, leading to such things as claiming two Germanies or putting Y88VO in Antarctica, and so forth. Some people missed multipliers because their files were out of date. If we spotted them, we gave you credit; but we couldn't find them all. A number of people made the mistake of typing double exchanges. For example, the computer would enter the exchange and they'd type it in again, leaving "5050" instead of "50" as the exchange. We fixed as many of these as we could, but again, we're sure we missed some. If you used a computer to log your entry, pay close attention to your typing. Many people mistyped 0 for O or I for 1, etc. We didn't penalize anyone for these types of errors. We're sure some busted calls could be attributed to typos, rather than miscopying call signs—Proof your logs! There are people who still aren't familiar with the ARRL Suggested File Format for Submission of Contest Log Data; if you're not familiar with it, get in touch with us—we'll be happy to help.

Thanks to Contest Assistant Anne Jaworski for her help in preparing the results, and to all who participated, making this year's contest one of the best ever. Next year's CW contest is February 20-21 and the phone event is March 6-7—be there for the action!



Laci, HA0HW, scored 851k points and finished third-place all-band CW in Hungary. Laci hoped to pick up a few new counties during this year's CW effort.

**Top DX Single-Operator Assisted**

CW							Phone								
Call	Score	160	80	40	20	15	10	Call	Score	160	80	40	20	15	10
JJ3YBB (J13ERV,op)	1,229,256	0/0	53/17	161/37	515/55	407/52	761/55	EA3NY	2,449,842	0/0	88/30	111/31	1037/55	1061/57	1269/56
ON4WW	898,800	0/0	54/15	292/43	346/52	340/52	368/52	KG4DD	1,881,630	0/0	0/0	197/39	613/53	1034/54	1261/56
JR4GPA	309,672	0/0	1/1	26/10	90/29	221/45	421/51	I12A (I2UIY,op)	1,417,020	0/0	71/18	67/22	351/57	606/57	1165/55
JR2BNF	101,442	0/0	0/0	0/0	70/31	112/36	137/39	JR4GPA	152,880	0/0	0/0	0/0	44/17	103/30	373/51
								JQ1NGT	145,548	0/0	0/0	0/0	0/0	0/0	933/52

**Top W/VE Single-Band Scores—CW**

160	80	40	20	15	10
K5UR 8256	WE3C 62,628	K8PO 339,660	K1TO 609,504	K2VV 527,505	W8UN 539,235
WB9Z 6396	K7EG 37,515	K4JPD 320,985	K5MR 450,780	K2SS/1 471,570	(W8UA,op) 487,740
K4TEA 6201	(K8E,op) 26,280	W6XX 216,540	K3EST 324,174	W5WMMU 404,040	K1XA 470,250
W1NG 3534	W8JGU 25,740	N5RZ 215,028	N3KK 240,828	KC8D 370,062	K4XS 470,250
K5WXZ 1575	K3TW 17,700	KV9Q 191,178	W8TWA 232,557	W6QHS 336,294	(WC4E,op) 411,843
W2FCR 1575	W3GH 16,368	(W8HBS,op) 178,533	AC4CE 171,738	W9LT/8 348,975	N8CXX 325,395
KM5X 1320	AA4S 14,112	K8LX 178,533	VO1SF 148,032	W3MA 343,350	(K8JM,op) 312,708
W2VO 1197	WA4SVO 8436	N4UA 159,111	K5LC 101,106	NJ2L 337,518	K9QVB 283,290
N4UH 1020	K3JGJ 8064	KV6O/5 142,824	VC6BMX 88,914	W8IQ 300,186	K0RR 216,384
VE3DO 630	WA2AOG 7455	KA2AJT 138,474	WR3Z 87,912	WA3A 294,336	K1IK 215,028
	WB5VZL	W2UP 122,880			VE3PN 203,490

**Top W/VE Single-Band Scores—Phone**

160	80	40	20	15	10
K1ZM 6534	K1UO 57,288	KC7EM 145,314	KK9A 657,951	K2SS/1 907,200	W8UN 871,125
K5UR 3822	WE3C 44,892	KD2FD 84,663	K3ZJ 526,350	K3RV 866,502	(W8UA,op) 816,660
K8CS 324	WA4SVO 35,820	K1ZZ 47,736	N3KK 229,320	K3EST 832,866	NX1H 707,136
	W3GH 15,141	N4PMQ 34,752	W8TWA 200,475	W7WA 760,548	W5WMMU 650,178
	KM8J 14,715	K8DJC 24,534	W5FO 140,154	W2SC 533,247	(KZ5D,op) 650,178
	WD4KXB 12,540	W8UVZ 20,832	KE2JO 106,344	W9LT 459,984	K51L 550,560
	WB7EWC 7296	W4JKC 17,595	K7ABV 105,570	WA2EOV 340,890	KB1WH 517,752
	KR9G 7068	WB2AMU 17,400	VE7IN 92,568	N4MO 311,355	KO4QW 483,678
	VE3POS 7038	N3EC 13,254	VE1NH 36,720	W6BSY 278,304	KC9AL 375,249
	WA2AOG 5445	KJ4VG 12,255	W6OK 36,366	N6IC 198,528	W1WEF 368,118
					KG1D 359,658
					W8UFI

**SOAPBOX**

**W/VE CW**

This was my third try at QRP and was by far the hardest (WA2ASQ). The time I spent chasing VK9X reduced my score compared to last year (WB2ABD). There were a lot of nice multipliers out there! (W7YAQ). The more I operate in the DX contests, the more fun I have. My thanks to all the DX operators who listened for my signal (KB9ABI). I can't remember the last time band conditions were so good—every band was open and signals were fantastic! I worked a number of new ones, especially on 80, where I'm trying to finish my five-band DXCC (NS0B). Operating QRP continues to be great fun! My thanks to those with the good ears (NJ9C). It was a great contest, with super conditions on all bands. My memory keyer is my new best friend! (WD5COV/0). I feasted on JAs (KF4CI). Had I known conditions were going to be as good as they were, I would have made a real effort. If

conditions were this good in 0-land, they must have been fantastic on the East Coast (AA0CY). It was nice to catch 5B4ADA on 40 for a brand-new band-country and 5U7M on 20 meters (WM2D). This was the first DX contest I entered (AA2DT). These were the best conditions in years! (W2GD). Conditions were great. I worked all TVs the first morning on 10 meters and repeated the feat on Sunday. The neighbors didn't understand the magnitude of my accomplishment! (AA2DU). Thunderstorm activity didn't help our 160- and 80-meter QSO tallies. Conditions were very good on the high bands. It's exciting to have 20 meters open all night this late in the solar cycle (N5HD). It was great fun to make several QSOs with this "little pistol" station! The band conditions seemed ideal (W3CEI). I didn't intend to operate, as we received our first significant snowstorm and I wanted to ski (NT7E). The great conditions and high activity made for a fun contest and a great way to spend my birthday (N9AEJ). Conditions were great again, with tremendous ac-

tivity on 10, 15 and 20. Thanks for making this event possible (W9HE). 10 meters was fantastic! The band opened up before 6 AM and closed after 9 PM (K2MFY). There are always a lot of great surprises in this contest! I had my CQ answered by V85KX and VS6BG, and worked two new ones, HZ1AB and VU2NBT (AA7FL). I operated 24 hours with the beams stuck at 30°. When the wind took them to 210°, I quit! (K8MFO). This contest continues to be my favorite CW contest! I keep adding to my DXCC totals, which makes it all worthwhile. This is one heck of a contest (WK0F). Conditions were quite good and there was plenty of activity. I had fun! (K6SG). We set up a small multiop in a motel room near Wheeling and had a ball giving out West Virginia multipliers (N8AGU). I wish I had more time to enjoy the contest, as it was lively (K8NI). The sad part about the great conditions we had for the contest is that we may not see the likes of them again for several years (K8SJ). A thunderstorm, of all things, kept me off the air during the final hour!

**Top DX Single-Band Scores—CW**

160	80	40	20	15	10
NO9M/KP4 45,954	G3LNS 82,800	ON4UN 221,613	OG1AA 315,945	LX/DL1VJ 255,432	FF8XX 281,961
CT1AOZ 20,868	IO4IKW 58,320	IO4IND 179,478	OHANRC 307,074	ZD8LI 243,078	(FB1MUX,op) 276,849
E17M 8970	OK3NA 36,822	G3FBX 160,911	N6OP/NP2 286,230	YT3AA 215,040	EI6BT 260,091
IV3PRK 1632	Y21CW 27,300	PA8AAC 143,370	LZ5W 281,253	ZF2RY 205,713	Y23A (YU3BC,op) 223,068
JA7NI 252	JA8JHA 22,848	DK3GI 131,196	UA1ZO 265,680	YU3RO 205,029	HK1KXA 204,972
OK2PWJ 48	DK8ZB 21,312	ZL3GQ 130,845	RZ9UA 254,520	OK3CBU 197,175	HA8NAR 204,972
	OE2VEL 21,000	YU3EW 120,204	UA4WI 249,570	LY2WW 194,580	4N2V (YT2ER,op) 201,666
	YU3OJ 12,354	YT7A (YU7GO,op) 119,091	OG8LQ 211,140	OG6NIO 189,126	SP2JKC/3 194,544
	ON5WL 11,718	EA4KR 114,162	RW6AZ 206,382	DL8U (DL4AAE,op) 188,442	EI5DI 184,851
	JF1YRK (JA9VDA,op) 11,622	I1VDM 72,750	SV1RP 189,168	HA8MM 169,128	UA0FZ 178,524

**Top DX Single-Band Scores—Phone**

160	80	40	20	15	10
KV4FZ 16,524	ZF2ND 255,234	ON4UN (ON4WW,op) 226,737	IR4T 567,180	9Y4VU 499,140	PJ9M (OH6RM,op) 834,024
CU2CE 1326	YV1DRK 91,314	PJ9Y 203,727	Y11BB 378,252	GW4BLE 405,000	LU6ETB 659,349
IK3PRK 792	HC1HC 34,254	CT1BOP 153,780	LZ5G (LZ3ND,op) 355,752	G4CNY 390,600	AL7CQ 586,401
	OK9CBU 25,245	PA3EPN 147,744	YU3HR 346,968	7L1GVE 386,460	KP4FP 563,580
	DL3LAB 19,995	YV1CR 130,368	0ZXB 340,017	JA8JHA 361,440	YT3AA 521,265
	JH1HGC 19,200	G3FBX 113,550	I4AVG 324,087	OH6E 349,020	IT9A (IT9GSF,op) 513,477
	EA8TH 13,857	HJ4QIM 106,240	OH1MMM (OH6LI,op) 312,300	EA9UK 342,084	G4CJH 502,149
	VK3DZM 13,716	JA2BAY 99,372	CT1DVV 241,752	PJ9JT (W1BIH,op) 326,565	GW8ARK 447,633
	YV6BTF 12,495	GM0ECO 98,100	RZ9UA 233,994	OG6NIO 286,740	FF8XX (FB1MUX,op) 430,920
		I4EWH 90,480	F6CQU 223,374	YT3SW 284,040	F1NBX 430,464

**W/VE Low-Power Top 10**

CW	Score	Phone
W1PH	2,066,100	W1PH
KC1SJ	1,730,142	K5RX
W2TZ	1,665,972	K8NZ
N8AA	1,277,250	VY2SS
KG1D	1,073,250	KQ3V
K9ALP	1,062,831	NM3E
W7YAQ	1,050,804	WA2UUK
K2PH	1,037,475	N1HOQ
NA4K	1,022,688	AC0W
K5RX	957,825	KC8FS

**W/VE QRP Top 10**

CW	Score	Phone
AA2U	836,964	AA2U
N4KG	675,072	K5IID
N0AX	543,585	N0AX
N7IR	403,434	N7IR
KK2E	353,430	KK2E
K3NCO	333,717	K3NCO
K9AY	326,190	K9AY
WA1GUV	280,539	WA1GUV
KA1CZF	219,024	KA1CZF
N1AFC	218,592	N1AFC

**Top DX QRP Scores**

CW	Score	Phone
G4BUE	513,240	NH6T
HB9ADD	372,240	KG9GI
OZ3PE	288,315	KP4WZ7B
JA9RPU	231,840	G0PAM
LA2HFA	223,860	(G4BUE,op)
DL4FN	166,719	I5OYY
JA1GTF	142,080	F1BEG
RA0JY	121,452	G0AEV
OK1BLC	113,130	JA2JSF
EA3DFW	95,790	IK1GKE
		HA7YS

(K0BJ). You know 40 is hot when I can make WAC in 46 minutes from northern Minnesota! (K0JL). This CW contest is addictive. I'll start earlier next year! (K1HKI). Conditions were very good for this contest and, although my score isn't very competitive, I thoroughly enjoyed operating and plan to operate in the upcoming phone contest (WA6KUI). My long-boom Yagi made it up just in time—five hours before contest (WA9KNP). I didn't expect the excellent conditions on 10 meters. I worked five new ones, including Z21BL on long path! (WA8LLY/6). These were the best high-band conditions we've experienced in 15 years! Because we were one keyer short the first day, we had to test our sending skill with a straight key on 80 meters the first night. Our apologies to the stations that had trouble copying us (WD8LLD). I'd have done better, but I keep falling asleep (AE2N). Conditions were good the first night. I worked 264 JAs, but probably won't do this again on 10 meters for a

while (KY5N). Conditions were excellent, as I picked up seven new countries (AA5NJ). The contest was rewarding and a lot of fun (W6YNR). I was a computer nonbeliever until I tried online computer logging. It made the contest more enjoyable and I didn't even have the computer key the rig yet. I never thought computers and contests would mix, but you can count me as a convert (W6DN). This was my first CW contest. It wasn't a high score, but I had lots of fun hunting for new countries on CW and will do it again next year. It's a great way to build code speed (N1HOQ). My thanks to the DX stations that make this contest possible and enjoyable (W100). Conditions were generally excellent. This was my best effort ever, and I even made some points on 160 this year (KF2O). Competition for spectrum space on 10 was intense (AD5Q). This was the most polite, best-mannered contest I've been in since the 1960s (W5WQN). Conditions were good. Little time elapses between when a rare multi-

plier arrives on a new frequency and when the pileup becomes unbreakable for QRP stations, thanks to packet radio (N7IR). This was my first CW contest and I had a great time. I used the CMOS Super Keyer II I built and it sure helped (KG7RW). Conditions were better this year on the low bands. I guess I'll have to solve the line-noise problem on 80 and put up something for 160, given the number of QSY requests I received (NZ0R). Conditions were incredible! What great runs with low power! (KC1SJ). The contest was great! It was my best contest ever! Contesting is fun, but I must admit that I ask myself why I do it about every third contact (NW1S). We had great propagation from New Mexico all weekend. Europe and Asia sounded like locals. I can't wait for the phone contest (AG5S). It's hard to work this contest from Prince Edward Island. Many DX stations refused to work me and US hams called me repeatedly (VY2SS). This was my first contest using computer logging. I got along

**Top W/VE Multioperator Scores**

**CW**  
**Single Transmitter**

Call	Score	160	80	40	20	15	10
W3BGN	3,697,632	32/24	121/48	439/81	953/91	579/92	652/108
K1VR	3,678,096	9/8	155/52	409/81	1030/100	591/95	618/100
W3XU	3,498,714	0/0	105/47	310/73	1031/97	699/95	672/102
WW2Y	3,284,310	23/23	99/47	428/74	853/93	578/84	657/94
AA1K	2,907,651	16/16	70/47	253/67	997/91	452/85	629/95

**Two Transmitter**

Call	Score	160	80	40	20	15	10
K1AR	8,295,039	22/21	349/65	719/93	1508/116	1300/122	1251/120
N3RS	6,864,726	25/25	104/51	770/93	1278/116	1072/114	1177/118
K1DG	6,195,618	16/16	111/51	608/89	1165/111	1240/116	1007/115
K8AZ	6,044,727	25/23	86/43	466/88	1233/104	1152/114	1227/109
K2LE/1	5,353,452	6/6	143/56	592/89	1105/105	1050/102	917/110

**Unlimited**

Call	Score	160	80	40	20	15	10
N2RM	10,756,002	38/33	285/70	1109/107	1891/123	1421/120	1459/125
W3PL	10,565,032	50/37	386/73	1002/108	1727/125	1411/122	1428/121
K1ST	9,459,072	24/21	244/61	937/104	1777/125	1389/114	1425/119
W0AIH	7,433,289	23/21	143/49	525/99	1877/118	1153/99	1346/103
KR1R	7,429,215	26/25	247/66	846/99	1308/112	1180/109	1128/112

**Phone**  
**Single Transmitter**

Call	Score	160	80	40	20	15	10
NQ4I	4,412,880	15/12	52/32	129/60	1044/113	827/102	1338/113
K3LR	4,388,904	12/11	50/34	137/63	1091/107	657/117	1179/136
W3BGN	3,854,808	26/20	99/45	140/63	766/91	663/110	1200/115
WB8K	2,887,680	2/2	31/22	59/32	736/99	590/103	1142/118
KE2AY	2,649,792	1/1	51/30	71/38	802/100	654/94	789/110

**Two Transmitter**

Call	Score	160	80	40	20	15	10
N2NT	8,668,605	28/21	207/52	305/70	1285/122	1881/140	1695/130
N3RS	8,496,798	26/20	87/43	360/75	1417/127	1619/132	1845/132
K1DG	8,390,367	28/18	79/39	248/71	1273/121	2222/144	1460/134
AA6TT	7,665,075	17/12	57/32	404/57	1207/119	1974/134	1566/135
KS9K	6,914,916	15/12	61/40	278/76	1004/122	1540/132	1569/132

**Unlimited**

Call	Score	160	80	40	20	15	10
W3PL	12,412,320	32/23	331/67	474/89	1852/141	2108/151	2008/137
K2TR	10,086,597	50/30	265/62	365/80	1739/138	1687/146	1583/135
N5AU	9,329,688	29/17	106/45	400/77	1262/135	2005/146	1712/144
W4MYA	7,327,704	19/13	135/45	220/68	1672/128	1399/134	1411/115
W0AIH	7,133,049	12/12	63/39	304/70	1049/114	1662/145	1509/138

**Top DX Multioperator Scores**

**CW**  
**Single Transmitter**

Call	Score	160	80	40	20	15	10
ZF2KE	5,160,780	289/53	604/56	722/56	999/59	1163/59	1253/59
UX1A	4,422,888	22/16	111/34	529/57	1918/59	1329/58	1319/58
HG1S	3,288,315	2/2	123/25	591/55	1111/59	1203/59	1402/57
TM5C	3,272,925	65/23	281/43	427/48	742/57	1052/59	1208/59
F5IN	3,056,625	21/15	190/37	497/50	1014/58	1039/58	954/57

**Two Transmitter**

Call	Score	160	80	40	20	15	10
U2ZFWA	4,097,184	0/0	193/35	833/57	1352/60	1257/58	1461/58
HG5A	3,554,037	35/14	180/33	624/51	1281/58	1228/57	1089/54
E26L	2,635,500	0/0	75/20	698/58	962/59	954/58	825/55
JA3ZOH	2,231,376	1/1	38/12	335/47	855/55	971/57	1048/57
AH0AC8W	2,003,484	19/11	141/26	410/47	230/41	953/56	1053/57

**Unlimited**

Call	Score	160	80	40	20	15	10
H18A	4,191,366	219/44	542/56	845/57	566/60	838/59	1173/58
I3VHO	3,882,858	53/21	292/39	681/54	1234/57	1284/55	1062/55
4N1Z	1,191,582	0/0	4/4	92/22	752/58	489/53	721/56
JA1YFG	494,328						
OG3AT	40,425	0/0	0/0	9/8	62/23	40/21	64/25

**Phone**  
**Single Transmitter**

Call	Score	160	80	40	20	15	10
PJ0B	8,275,716	118/40	507/56	513/57	1443/57	1853/58	4002/59
6D2X	8,214,690	211/48	550/57	691/57	1401/59	1573/59	3604/61
V31DX	7,247,628	134/37	528/56	535/57	1310/59	1330/58	3651/60
TM5C	5,469,690	40/16	391/44	394/50	1533/61	1630/60	2299/59
ZF2RX/ZF8	5,163,444	7/6	288/54	732/55	982/56	929/57	3080/58

**Two Transmitter**

Call	Score	160	80	40	20	15	10
U2ZFWA	5,664,375	0/0	153/30	629/55	1916/61	1931/59	2496/60
CT3M	3,120,351	0/0	107/57	316/45	930/57	1143/60	1715/56
IQ6F	3,074,052	14/7	40/14	160/29	1416/59	1548/59	1356/58
XE2MOO	2,281,818	6/6	230/47	601/51	162/37	590/51	1554/50
RZ6L	2,242,080	0/0	25/13	290/35	825/58	1008/58	1312/52

**Unlimited**

Call	Score	160	80	40	20	15	10
XE2I	9,710,562	216/39	861/56	1058/57	1741/58	1967/58	4086/58
H18A	7,476,762	66/27	496/56	793/55	1351/59	2024/60	3132/60
I3MAU	6,063,204	19/13	262/31	634/51	2350/57	1799/57	2534/57
HG73DX	5,490,420	9/7	242/32	474/42	2360/61	1828/60	2126/58
JA1YXP	1,727,604						

**Overall Single Operator Division Leaders**

CW		
Atlantic	K3LR	3,549,312
Central	W9RE	2,641,578
Dakota	NZ0R	1,048,416
Delta	W4XJ	1,472,250
Great Lakes	KW8N (WD8IXE,op)	2,919,168
Hudson	K1ZM	3,736,665
Midwest	WC0Y	1,029,732
New England	KM1H (KQ2M,op)	3,940,596
Northwestern	NN7L	1,802,421
Pacific	WA7NIN (N6TV,op)	2,415,969
Roanoke	K4PQL	2,516,379
Rocky Mountain	WD5COV/0	1,823,328
Southeastern	WX4G	1,610,400
Southwestern	W6AQ (KA6SAR,op)	1,344,768
West Gulf	WM5G (KR0Y,op)	3,954,411
Canada	VO1MP	1,203,804

**Phone**

Atlantic	K3OO	3,868,368
Central	W9RE	3,600,030
Dakota	KE0OL	1,273,284
Delta	W5WMM (KZ5D,op)	707,136
Great Lakes	KW8N (NZ4K,op)	2,681,910
Hudson	N2LT	2,579,220
Midwest	K69AL	483,678
New England	KM1H (KQ2M,op)	4,932,396
Northwestern	NN7L	2,043,264
Pacific	W6CH (NU6S,op)	1,902,528
Roanoke	K4YFL	1,270,152
Rocky Mountain	W7CFL	958,854
Southeastern	K4XS	3,914,295
Southwestern	K6NA	1,613,496
West Gulf	KA5W (KS1G,op)	2,867,400
Canada	VE3EJ (K5ZD,op)	4,496,832

**Low-Power Single-Operator Division Leaders**

CW		
Atlantic	W2TZ	1,665,972
Central	K9UIY	749,490
Dakota	KE0JI	232,440
Delta	NA4K	1,022,688
Great Lakes	N8AA	1,277,250
Hudson	WG3I	575,445
Midwest	AJ0I	291,444
New England	W1PH	2,066,100
Northwestern	W7YAQ	1,050,804
Pacific	W6JTI	895,968
Roanoke	N4YDU	807,750
Rocky Mountain	K3TA/7	622,986
Southeastern	WD4AHZ	846,423
Southwestern	W6UQF	738,342
West Gulf	K5RX	957,825
Canada	VE3BZR	397,440

**Phone**

Atlantic	KQ3V	1,115,400
Central	WB9IQI	629,412
Dakota	AC0W	808,008
Delta	WA6KUI/4	95,706
Great Lakes	K8NZ	1,137,960
Hudson	K2POF	625,044
Midwest	WK0F	561,795
New England	W1PH	1,596,456
Northwestern	W5TO	187,920
Pacific	N6JM	267,720
Roanoke	KC8FS	630,867
Rocky Mountain	K3TA/7	484,632
Southeastern	K4JRB	208,173
Southwestern	N6ADK	315,168
West Gulf	K5RX	1,351,920
Canada	VY2SS	1,127,136

**QRP Single-Operator Division Leaders**

CW		
Atlantic	K3NCO	333,717
Central	NJ9C	170,982
Dakota	WA0RPI	197,370
Delta	N1CWR	71,877
Great Lakes	N8CCA	111,192
Hudson	AA2U	836,964
Midwest	K0OD	200,976
New England	WA1GUV	280,539
Northwestern	N0AX	543,585
Pacific	W6RVY	32,940
Roanoke	K4GEL	3705
Rocky Mountain	K9AY	326,190
Southeastern	N4KG	675,072
Southwestern	N7IR	403,434
West Gulf	KF5QR	164,088
Canada	VE6BIR	61,512

**Phone**

Atlantic	WT3W	292,050
Central	N9AW	304,704
Dakota	—	—
Delta	K5KLA	52,440
Great Lakes	KA8NRC	30,552
Hudson	AA2U	716,496
Midwest	KB0U	1596
New England	W1QH	267,750
Northwestern	N7RWX	75,336
Pacific	N6BXU	17,940
Roanoke	—	—
Rocky Mountain	K5IID	362,181
Southeastern	—	—
Southwestern	W8QZA	86,976
West Gulf	WM4Z	350,520
Canada	VE6SH	31,524

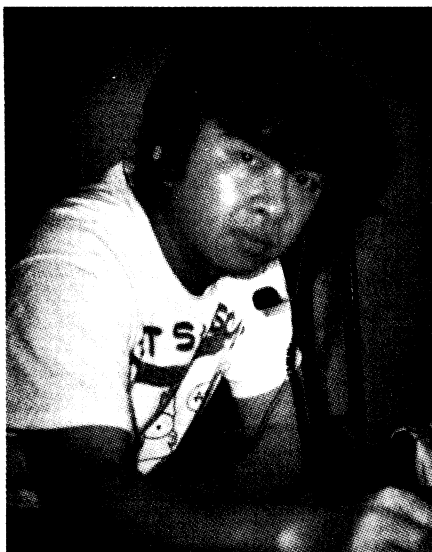
better than I thought I would (VE3ST). The highlight for me was working VQ9SS long path through a pileup at my sunrise (AJ6T).

**W/VE Phone**

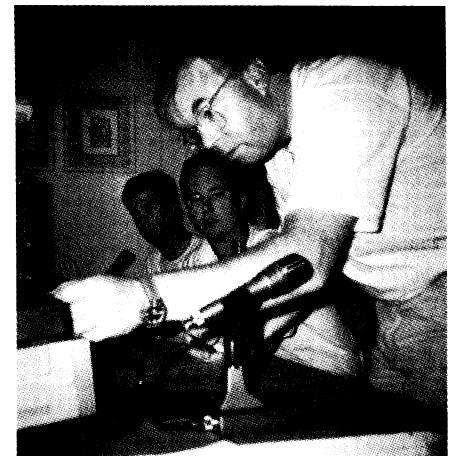
I was able to reach my personal goals of more than 100 QSOs and 50 multipliers on 40-meter phone (WB2AMU). Running low power with a modest station is challenging and a true test of patience. I'm glad my voice lasted through it all! (AA8AV). This is still the best contest of the year. It's always a great time and lots of fun (KB9ABI). A severe thunderstorm, followed by a blizzard, crippled the last two hours of the contest—thankfully, it didn't hit until that late! (W0UA). This was my first time in the unlimited category and I had a great time (KA2AJT). I was surprised to find that it's possible to work DX on 80 and 40 meters with 100 W into a ground-mounted vertical. Thanks to the DX operators who took time to dig my call sign and

report out of the QRM! (WA7BNM). The bands were good and it was great to have the OM wait on me and cook my dinner while I contested! (KD1BM). I only made 40 QSOs, but what made up the difference was the great DX! I was able to work seven new countries for DXCC! (N6TCZ). My goal was 200 QSOs, but I couldn't let my friend who's new to contesting get a higher score! (AA0CY). I had a fun time working the contest on 10 meters (N2LDU). I proudly submit my DX contest points, meager though they may be. I've never had more fun with ham radio and look forward to the next contest! (N2FDT). I recommend that you make sure relatives don't visit on contest weekends—it really cuts into participation! (K3YD). This was my first contest using a computer, and what a joy it was! (KZ5D). These were the best conditions I've seen from western Europe to the West Coast. (KC7DB). This was my first phone contest in years. The family wondered why I kept saying, "Whiskey Three," wondering if ham radio had finally driven me to drink! (W3CEI). This was my first stab at the DX contest. It was great fun (KO4ER). I've never heard so many countries active on the 10-meter band in any previous contest. I missed quite a few, but was amazed how many I did work in just 10 hours (N6EE). Being a devoted CW ham, I never participated in any SSB contest until now. It was quite different and interesting (VE2EOH). I enjoyed the contest, it was my first one (NIKFN). Conditions were unbelievable on 10 meters! (KC8FS). Conditions on 10 meters were great (W5UF1). I had fun and worked a few new ones, as well. Thanks to all the operators who pulled my five watts from the ether (VE6GK). I didn't get much operating time in, but what great conditions! (WR2G). I had a great time and hope to do it again next year (K6SG). Conditions were excellent. 15 meters was open until the early morning hours, 20 meters was open all night and 10 was great. I even made some contacts on 160! (KF0GV). The contest was fun! I didn't hear any Asian or Pacific stations. The fun was there and that's a reward in itself (VE2HBE). Conditions were very good, and although my score most likely won't be very competitive, I enjoyed operating in this one (WA6KUI/4). I enjoyed the contest very much (VE7LET). My first all-out contest! (WY2L). The 10-meter long-path opening was exciting (WA8LLY). I must remember to send my wife on a visit to her sister's on contest weekends! (W4TMN). This was my first ARRL DX contest in more than 20 years! I had a blast with a G5RV antenna at 35 feet (N5UMN). I had to fight S6 line noise until 0500Z Sunday. When it went away, things were

great! (N5NMX). It was a thrill when FO0CI on Clipperton Island called me. I had a lot of fun! (WX6M). It was a nice surprise to find YC2AB and 9K2TC in the clear near the band edge! (N2INN). I set a personal record by working all continents in 56 minutes (K4BNC). We had great conditions on 10 meters! (N2JNZ). I haven't been in a DX contest in years, but I had so much fun, you can count on me next year, with more power and bigger antennas! (WB4NFS). My operating time was limited, but I had a lot of fun! (WA7NWL). This was my all-time best QSO count. I had a great time and thoroughly enjoyed myself (N1HOQ). The low-band activity was disappointing, but high bands were cooking (W1OO). I didn't have much time to work the contest, but I did get two new countries. That alone makes it a success! (N6TPT). Someone lives in Africa! I worked him twice! (N0EPF). There was lots of QRN on 80, I really had to strain my ears! (VE3POS). I enjoyed giving DJ8UV his first Vermont contact (WA1QGC). This was my first full effort as a single operator (N2GQS). This was my



Mac, KH0JE1BQE, was active from Saipan.



In the operating position at V31DX are (l-r) Bill, WA9L; Vic, K16IM; and John, N6YRU. They averaged 155 QSOs an hour for the phone contest and finished in third-place phone, multisingle, world.

**DX Continental Leaders**

**CW**

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	ZD8Z	JH7WQ	F6BEE	V27T (YU1RL,op)	NH6T (W8ZZ,op)	P40M (K5GO,OP)
160	—	JA7NI	CT1AOZ	N09MKP4	—	—
80	—	JA0JHA	G3LNS	—	—	—
40	VQ9SS	JA0UMV	ON4UN	KL7UR	ZL3GQ	YV10B
20	CT3CU	RZ9UA	OG1AA	N6OP/NP2	VK4TT	LU1ICX
15	ZD8LI	JH2BCN	LX/DL1VJ	ZF2RY	—	CE5SPR
10	—	UA0FZ	FF0XX	V31VOA (AE6U,op)	KH6XT	HK1KXA
Assisted	—	JJ3YBB (J13ERV,op)	ON4WW	—	—	—
<b>Multioperator</b>						
Single Transmitter	—	JA8YBY	UX1A	ZF2KE	—	—
Two Transmitter	—	JA3ZOH	UZZFWA	—	AH0AC8W	—
Unlimited	—	JA1YFG	I3VHO	H18A	—	—
<b>Phone</b>						
Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All Band	5Z4BI	JH7DNO	Y24UK	T11C (N6KT,op)	WR6R/KH6	HC10T
160	—	—	CU2CE	KV4Z	—	—
80	EA8TH	JH1HGC	YU1EXY	ZF2ND	VK3DZM	YV1DRK
40	—	JA2BAY	ON4UN (ON4WW,op)	—	—	PJ9Y
20	TL8IM	RZ9UA	IR4T (I4UFH,op)	KL7RA	KH6FKG	PT7NK
15	EA9UK	7L1GVE	GW4BLE	—	KH6GMP	9Y4VU
10	—	JH8CLU	YT3AA	AL7CQ	VK2GAH	PJ9M (OH6RM,op)
Assisted	—	JR4GPA	EA3NY	KG4DD	—	—
<b>Multioperator</b>						
Single Transmitter	5U7M	JA8YBY	TM5C	6D2X	KC6MM	PJ0B
Two Transmitter	CT3M	—	UZZFWA	XE2MOO	—	PW4Y
Unlimited	—	JA1YXP	I3MAU	XE21	—	—

**Affiliated Club Program**

**Unlimited Category**

Club	Score	Entries	CW Winner	Phone Winner
Frankford Radio Club	202,360,257	141	N2LT	K300
Yankee Clipper Contest Club	170,151,470	137	K12M	K1RU
Potomac Valley Radio Club	54,300,216	66	K3ZO	K3ZO
Northern California DX Club	11,851,356	52	K6PU	KA6BIM

**Medium Category**

North Coast Contesters	41,903,652	25	K3LR	VE3EJ (K5ZD,op)
Society of Midwest Contesters	33,973,941	37	K4XU	W9XT
Mad River Radio Club	29,142,507	27	KW8N (WD8IXE,op)	KW8N (NZ4K,op)
North Texas Contest Club	27,199,668	25	WM5G (KR0Y,op)	KA5W (KS1G,op)
Northern California Contest Club	20,845,902	22	WA7NIN (N6TV,op)	W6GH (NU6S,op)
Overlook Mountain ARC	17,292,105	11	W2XL	KD2NE
Southern California Contest Club	16,867,068	23	W6AQ (KA6SAR,op)	K6NA
Salt City DX Assn	14,165,850	37	K2KIR	WA2UJK
Mile-Hi DX Assn	11,816,247	21	NS0W	W4ETO0
Kentucky Contest Group	9,911,967	11	K4LTA	KB4SRE
Western Washington DX Club	8,795,595	16	NN7L	NN7L
Rochester (New York) DX Assn	8,731,680	20	W2TZ	W2HPF
Southeastern DX Club	8,429,526	16	WX4G	K4EZ
Left Coast Contest Club	7,025,649	13	K7RIE	K7RI (AA7FT,op)
Texas DX Society	4,928,028	10	K5GN	KE5FI
Florida West Coast DX-Ring	4,920,909	4	K4XS (WC4E,op)	K4XS
Murphy's Marauders	4,812,342	10	WJ1U	WJ1U
Dauberville DX Assn	4,515,282	8	NW3H	KQ3V
Western New York DX Assn	4,219,173	17	WB2ABD	WB2WPM
Albany ARA	3,064,194	13	K2VV	K2POF
San Diego DX Club	2,484,480	9	W6UQF	N6ADK
South Jersey Radio Assn	2,243,445	23	WA2VVA	W2PAU
Long Island DX Assn	2,190,516	5	K2MEY	K2MFY
Kansas City DX Club	1,539,165	11	KM0L	WJ0I
Redwood Empire DX Assn	1,508,586	8	W6FSJ	W6FSJ
Southern California DX Club	1,333,953	16	WA5VGI	WA7BNM
Ohio Valley ARA	1,271,451	3	W8RSW	—
Eastern Iowa DX Assn	1,237,200	8	NY0V	NY0V
Grand Mesa Contesters	1,144,692	5	KJ0G	N0ZA
Mississippi Valley DX/Contest Club	1,138,794	7	K0OD	K0IFL
Lone Star DX Club	568,245	3	KF5PE	W0VX
Arkansas DX Assn	233,145	3	K5FUV	K5RO
Central Vermont ARC	163,098	3	—	K1HKI
West Park Radiops	142,677	9	W8IDM	WB8ORV

**Local Category**

River City Contesters	10,475,385	9	—	—
Maui ARC	8,590,076	3	KH6XT	K6GSS/KH6
Falmouth ARA	4,951,353	6	K5MA	N1HOQ
Northern Ohio DX Assn	3,812,511	5	W8JGU	K8BL
Carolina DX Assn	3,283,278	5	K4YYL	K4YYL
Blackhawk DX and Contest Club	1,949,754	5	K9IKP	KB9BIB
Woodbridge Wireless	1,948,116	7	KA4RRU	KA4RRU
Arrowhead Amateur Club	1,636,074	4	AA0AW	W0RXL
Great Dismal Swamp DX Assn	1,113,933	7	NQ1W	W4IF
Schenectady ARA	728,664	5	WT2F	WT2F
Central Florida DX Assn	704,388	4	N6AR	KC4TIR
Alamo DX Amigos	560,403	4	N5HB	W5HRF
Sterling Park ARC	517,551	5	W3FTG	W4LMJ
Columbus (Ohio) ARA	473,589	3	W8NPF	—
Hamfesters Radio Club	442,251	5	AK9Y	W9CA
Naked Chicken Contest Club	425,535	3	NF1J	NG1J
Talladega RAC	238,953	6	—	AA4UF
Metro DX Club	107,829	5	—	KA9HDN
Great South Bay ARC	90,345	5	—	N2MBM
Indian River ARC	804	3	W2SDB/4	—

first contest and I enjoyed it a lot. I can't wait until the next one! (KC4RQG). I had a great time with this contest. The conditions were good, the neighbors were quiet and I doubled my best score to date (VE3RRH). I wish I could have found and worked A6 and A7! (NZ0R). I was surprised that I bypassed last year's score! (W9LSD). For a few hours, the 160-meter band was pitching a no hitter. In my after-life I want to be on the East Coast! (K0CS). What a fun contest! (VE6SH). What did we do without computers? It's not fun repairing a linear amplifier at 2 AM Sunday with no sleep! (W0OSK). I got a kick out of being called by FO0CI on 20 meters (K4XS). It was a fun contest with many pleasant people (K7ZSD). Here's to those brave souls with perfect hearing who were able to drag me and my 20-watt mobile signal out of the bedlam! (W3FTG/4). I was only able to operate three hours, but did work one new country, XT2BS. I had a lot of fun! (W4WTO). I worked lots of strong European SSB stations from the West Coast on 40 meters! (AJ6T). I didn't have much time to work the contest, but I had a good time! (WZ8T). I'll have to go back to doing single-band efforts. My voice can't handle 2000 QSOs (W9XT). This was my first contest operating mobile from the Yukon! It was a lot of fun for just a couple of hours (NL7TB). The bands were wide open (KD3TB). As always, it was a fun contest. My biggest thrill was working Z21BL on 10 (KE7UH). There were good openings into Europe on 10-40, but there was a lot of storm static on 80 and 160 meters (WB2ULI). I had loads of fun in this one! (KQ3V). Worked FO0 on 80, and VK6 and ZS6 on 40—it was unreal (WY9V). Good hardware plus good conditions equals good fun (N7AVK). The good band conditions, considerate operators and rare DX stations made for an enjoyable weekend. Nothing beats the thrill of hearing your call sign spoken by someone on the other side of the world! (KC1XR). The 10-meter band was great! (K52X). Taking two days off before the contest enabled me to get by with four hours of sleep, but that's a far cry from the contests of 20 years ago when I didn't sleep at all! (K5RX).

**DX CW**

My score was the highest ever in this contest, which pleased me very much! (VK2APK). I was most confused with the call areas not aligning with the call sign, and wasted time chasing nonmultipliers. I'll know better next year! (VK2AYD). We enjoyed the contest and propagation was excellent! (UX1A). Propagation on 28 MHz into Switzerland was fine. The trouble was, though, that northwestern states, such as Wyoming, Montana and Idaho, somehow didn't make it over the mountain range and around the corner to the banks of Lake Zurich! (HB9ANR). Conditions were bad on 80 meters! I hope the phone contest turns out better (DL1BJL). Conditions were terrible on 7 MHz! There were a lot of stations on, but no one heard me (OH2BSQ). I took part in the contest with only three watts input, but it turned out to be a nice contest! (OK2BMA). A special thank you to the Western operators who stayed with me through the wall of East Coast QRM. We had to QRT three times because of electrical storms (CT3CU). I was happy to be able to work 37 states within four hours with only an indoor antenna! (HB9CSA). Conditions were FB, but I didn't have enough spare time! (LA8CE). Propagation was good and I had lots of fun! (PA3EWM). This was our club's first attempt with new antennas. There must be a pipeline directly to W6! (DL2EBX). I enjoyed participating in this contest. I've only had my license for two months! (PA3FZZ). DX conditions from Indonesia were bad! I hope next year will be better (YB2FEA). Conditions were good! In fact, they were a little too good for me, because when North America is having long openings to Europe on 10, 15 and 20, it's difficult to run W/VE from a modest station in South America when all the North Americans are beaming for Europe (ZY0FX).

**DX Phone**

I was glad to be able to get on the air for this contest (HL5AP). What a year for ARRL DX contests—they were great fun! (7J3ABO). This isn't easy with only 50 watts and a simple wire antenna, but some W/VE operators are patient and helpful! (OZ7AX). I only operated for three hours, but I enjoyed it! (JE0BTL). This was my first contest on

**WVE Plaque Winners****CW****Single Operator**

Category	Winner	Donor
All Band	WMSG (KR0Y,op)	Frankford Radio Club
1.8 MHz	K5UR	Hugh R. Paul, W6POK
3.5 MHz	WE3C	Dayton Amateur Radio Assn
7 MHz	K8PO	Northern Arizona DX Assn
14 MHz	K1TO	QSLs By W4MPY
21 MHz	K2VV	Carl Luetzelschwab, K9LA
28 MHz	W0UN (W0UA,op)	W5MYA
Low Power	W1PH	Dauberville DX Assn
QRP	AA2U	Tod Olson, K0TO
Assisted	WB2Q	Billy Lunt, KR1R

**Multioperator**

Category	Winner	Donor
Single Transmitter	W3BGN	Northern Illinois DX Assn
Two Transmitter	K1AR	Kenwood Employees ARC, WD6DJY
Unlimited	N2RM	Ehrhorn Technological Operations Inc

**Phone****Single Operator**

Category	Winner	Donor
All Band	KM1H (KQ2M,op)	Frankford Radio Club
1.8 MHz	K1ZM	Butch Greve, W9EWC, Memorial
3.5 MHz	K1UO	Lance Johnson Engineering, K0CS
7 MHz	KC7EM	David L. Thompson, K4JRB
14 MHz	KK9A	Dayton Amateur Radio Assn
21 MHz	K2SS/1	Kenwood Employees ARC, WD6DJY
28 MHz	W0UN (W0UA,op)	Border City Radio Club, VE3WHT
Low Power	W1PH	Dauberville DX Assn
QRP	AA2U	Michigan QRP Club
Assisted	NZ7E (K13V,op)	Corona Norco ARC

**Multioperator**

Category	Winner	Donor
Single Transmitter	NQ4I	Kenwood Employees ARC, WD6DJY
Two Transmitter	N2NT	Kenwood Employees ARC, WD6DJY
Unlimited	W3LPL	Western New York DX Assn, W2RR

**DX Plaque Winners****CW****Single Operator**

Category	Winner	Donor
World	V27T (YU1RL,op)	North Jersey DX Assn
Africa	ZD6Z (N6TJ,op)	Byron P. Peebles Jr, NZ3O
Asia	JH7WKQ	Alamo DX Amigos
Europe	F8BEE	Clarke V. Greene, K1JX
North America	K5NA/KP2	Potomac Valley Radio Club
Oceania	NH6T (W0ZZ,op)	Carlton Scheider and John Brosnahan, W0UN
South America	P40M (K5GO,op)	Southern California DX Club
1.8 MHz	N09M/KP4	Fred Race, AL7JO/6, in Memory of DL1FF
3.5 MHz	G3LNS	Mad River Radio Club
7 MHz	ON4UN	T. Gannon, W3YX, Memorial, Friends of W3YX
14 MHz	OG1AA	Bencher Inc
21 MHz	LX/DL1VJ	Southern New England DX Assn
28 MHz	FF0XX (FB1MUX,op)	ZP6CW (N4PW)
QRP	G4BUE	Dr G. Griffin, W8MEP, "Bones"
Assisted	JJ3YBB (J13ERV,op)	Willamette Valley DX Club

**Multioperator, Single Transmitter**

Category	Winner	Donor
World	ZF2KE	John Brosnahan, W0UN
Asia	J8BYBY	Kenwood Employees ARC, WD6DJY
Europe	UX1A	The Radio Place
North America	XE2EBE	Kenwood Employees ARC, WD6DJY

**Multioperator, Two Transmitter**

Category	Winner	Donor
World	UZ2FWA	Kenwood Employees ARC, WD6DJY
Asia	JAZ3OH	Kenwood Employees ARC, WD6DJY
Europe	HG5A	Kenwood Employees ARC, WD6DJY
Oceania	AH0/AC8W ARRL	

**Multioperator, Unlimited**

Category	Winner	Donor
World	H18A	H. Stephen Miller, N0SM
Asia	JA1YFG	Kenwood Employees ARC, WD6DJY
Europe	I3VHO	Texas DX Society

**Phone****Single Operator**

Category	Winner	Donor
World	T11C (N6KT,op)	North Jersey DX Assn
Africa	5Z4BI	Kenwood Employees ARC, WD6DJY
Asia	JH7DNO	Acadiana DX Assn
Europe	Y24UK	Dr G. Griffin, W8MEP, "Bones"
North America	VP5C (KD6WW,op)	Chod Harris, VP2ML
Oceania	WR6R/KH6	N7AVK-Honoring W7IYW
South America	HC1OT	Kenwood Employees ARC, WD6DJY
1.8 MHz	KV4FZ	Fred Race, AL7JO, in Memory of ZL2BT
3.5 MHz	ZF2ND	Kenwood Employees ARC, WD6DJY
7 MHz	ON4UN (ON4WW,op)	John J. Chmielewski, N2BJX
14 MHz	IR4T (I4UFH,op)	Don Wallace, W6AM, Memorial, Central California DX Club
21 MHz	9Y4VU	Long Island DX Assn
28 MHz	PJ9M (OH6RM,op)	Long Island Mobile ARC
QRP	NH6T	Dr G. Griffin, W8MEP, "Bones"
Assisted	EA3NY	Willamette Valley DX Club

**Multioperator, Single Transmitter**

Category	Winner	Donor
World	PJ0B	Carl Cook, AI6V
Africa	5U7M	Kenwood Employees ARC, WD6DJY
Asia	JA8YBY	Kenwood Employees ARC, WD6DJY
Europe	TM5C	Kenwood Employees ARC, WD6DJY
North America	6D2X	Nick G. Lash, K9KLR
Oceania	KC6MM	ARRL
South America	LU3HEO	Kenwood Employees ARC, WD6DJY

**Multioperator, Two Transmitter**

Category	Winner	Donor
World	UZ2FWA	Kenwood Employees ARC, WD6DJY
Africa	CT3M	Stanley Cohen, WD8QDQ
Europe	IQ6F	Tom and Joy Middleton, WB4CKY and KB4OMW
North America	XE2MOO	ARRL
South America	PW4Y	Kenwood Employees ARC, WD6DJY

**Multioperator, Unlimited**

Category	Winner	Donor
World	XE21	Wayne T. Yoshida, KH6WZ
Asia	JA1YXP	Kenwood Employees ARC, WD6DJY
Europe	I3MAU	Doug Robbins, KY2O
North America	H18A	Scott Robbins, KY2P

**Special Plaques****Single Operator**

Category	Winner	Donor
WVE Combined Score	KM1H (KQ2M,op)	National Contest Journal
WVE Low-Power Combined Score	W1PH	Rochester (New York) DX Assn
WVE QRP Combined Score	AA2U	Dr Marvin M. Tanaka, KH6MM
WVE Novice/Tech Combined Score	KB9BIB	Stan Star, KY4Q
WVE Under-18 Combined Score	WJ1U	Connecticut DX Assn, Father Moran, 9N1MM, Memorial
World Combined Score	OK1ALW	Mike Manafio, K3JUC, 4M4A,P465
World 3.5 MHz Combined Score	DL17RK (JA9VDA,op)	DL7AEY and KA1XN
Europe Combined Score	OK1ALW	Chris Williams, KG6AR
Japan Combined Score	JA8RWU	JA7WME, JE7RJS, JG7SVZ and JH7AFR
Western Japan Combined	JA0QNJ	5U/JH4NMT, Yoshiyuki Matsuda
Arabian Gulf All-Band Phone	A61AD (WB2DND,op)	Fred Greenbaum, WA2UDV
Atlantic Division CW	K3LR	K2NY—Memorial-Salt City DX Assn
Great Lakes Division CW	KW8N (WD8XE,op)	Livonia (Michigan) Amateur Radio Club
Great Lakes Division Phone	KW8N (NZ4K,op)	Livonia (Michigan) Amateur Radio Club
Hudson Division CW	K1ZM	Order of Boiled Owls of New York
Japan All-Band CW	JH7WKQ	Akita DX Assn
Japan All-Band Phone	JH7DNO	Communication Ham Club, JH7YJF
Japan Low-Power All-Band CW	JN2QCQ	Western Washington DX Club
Poland Phone	SP1AEN	Stan Wisniewski, FO5IW
Seventh Call Area All-Band CW	NZ7E (K13V,op)	Willamette Valley DX Club
Seventh Call Area All-Band Phone	NZ7E (K13V,op)	Willamette Valley DX Club
Single-Operator Under-18 CW	WJ1U	Virginia A. Greene, WB1AVA
Single-Operator Under-18 Phone	WJ1U	Virginia A. Greene, WB1AVA
WVE Novice/Technician, CW	KC4TIR	North Coast Contesters
WVE Novice/Technician, Phone	K06EY/2	North Coast Contesters

**Multioperator**

Category	Winner	Donor
Caribbean Multisingle CW	ZF2KE	The YASME Foundation
Caribbean Multisingle Phone	PJ0B	W5MYA
Multi-Multi Combined World	H18A	W2PV Memorial—Schenectady ARA





K4BAI	638,370	865	246	B	WA5OYU	5,394	62	29	C	20	AA6EE	133,209	361	123	B	WA8IGG	65,835	231	95	B	W4ETO@	767,340	1015	252	C
W4HR	257,640	452	190	B	<b>New Mexico</b>						K6NY	95,697	343	93	C	WB8BUQ	55,596	226	82	C	K3GWA	472,320	788	205	B
KN4QV	241,500	460	175	B	N7KA	648,885	905	239	C	WA6UFY	88,173	291	101	C	KW6G	47,475	211	75	B	N59W	441,288	648	227	C	
N4OD	234,684	492	159	B	AG5S	21,420	140	51	C	NE6I	39,606	161	82	C	K9QLK	40,404	148	91	B	K9AY	326,190	655	166	A	
K4EZ	145,484	319	152	C	<b>North Texas</b>						KUBU	31,737	149	71	C	W3GRW	213,750	475	150	B					
WA4FTM	102,960	264	130	C	WM5G (KR8Y,op)	3,954,411	3161	417	C	K8LX	178,533	717	83	C	NBGS0	178,506	422	141	B						
K4PFC	85,428	252	113	B	K5RX	957,825	1075	297	B	W4BRTP	6,324	92	34	C	W8LZV	150,297	421	119	B						
W4JFL	64,227	271	79	B	W5UDA	374,967	683	183	B	W6TWA	232,557	871	89	C	K8G	26,244	192	54	B						
WB4REC	19,988	101	66	C	NA5Q	303,030	518	195	C	N8CXX (K6JM,op)	411,843	1283	107	C	NBZA	6,426	63	34	B						
K4TEA	6,201	53	39	C	NA5W	172,800	300	192	B	KM0W	3,780	45	28	C	K8CS	330	11	10	C						
K4JPD	320,985	1019	105	140	KFSQR	184,088	424	124	A	W8VVU	3,444	164	7	B	KV9J (WB8HBS,op)	191,178	741	86	40						
<b>Kentucky</b>					W5XZ	131,456	1328	284	B	W8YLU	1,218	29	14	B	KC8D	370,062	1246	99	C						
N4XM	950,016	1237	256	C	K5WZX	1,575	25	21	C	<b>Ohio</b>					WBUN (WB8UA,op)	539,235	1563	115	C						
WB4PRU	230,472	386	194	C	KM5X	1,320	22	20	C	KW8N (WB8IXE,op)	2,919,168	2688	362	C	KJ0G	133,824	544	82	B						
WB4FOT	72,594	222	109	C	WB5VZL	7,455	71	35	C	W85VVR	2,627,370	2630	333	C	<b>Iowa</b>										
N4BOC	30,615	157	65	B	KF5PE	9,120	80	38	B	N8AA	1,277,250	1310	325	B	WB8W	250,800	550	152	B						
K4AIQD	29,400	140	70	C	K5MR	450,780	1366	110	C	K8MFO	1,219,995	1291	315	C	NV8V	20,655	153	45	C						
<b>North Carolina</b>					K5LC	101,106	411	82	B	K9ALP	1,082,831	1177	301	B	KEY9	17,400	116	50	B						
K4PDL	2,516,379	2489	337	C	N5M	84,942	363	78	B	WB8RSW	916,872	1208	253	C	<b>Kansas</b>										
N4YQU	807,750	1077	250	B	K5YN	325,395	1033	105	C	WB8YJF	803,250	1071	250	B	N8FMR	253,536	556	152	B						
K4FOY	115,320	310	124	B	<b>Oklahoma</b>					KF8HR	506,142	819	206	B	K5TU	140,679	319	147	B						
K4FZ	79,350	230	115	C	N5CG	1,321,431	1843	239	C	N8FU	325,704	662	164	B	K8BJ	61,074	234	87	C						
KL7NL/J4	11,420	90	46	C	W5LFS	114,300	300	127	C	WB8UHP	215,859	541	133	B	WB8YJT	41,310	162	85	B						
N4UH	1,020	20	17	C	NJ1V	45,402	329	46	C	W8NPF	151,938	367	138	C	WB8PL	6,726	59	38	C						
AA4S	16,368	124	44	C	WM4Z	38,325	175	73	A	K8QVY	128,817	367	117	B	K8BYC	1,860	31	20	C						
K8UR4	75	5	5	C	AA5NN	4,617	57	27	B	W8PST	116,967	307	127	C	<b>Minnesota</b>										
WA4SSI	27,972	126	74	B	<b>South Texas</b>					K8R0	94,530	274	115	B	WB8W	436,521	641	227	C						
WN4BJJ	17,934	122	49	B	K5GN	2,594,550	2450	353	C	W8YGR	90,720	189	160	B	KE8U	232,440	520	149	B						
<b>Northern Florida</b>					AD5G	1,664,628	1862	298	C	K8WM	76,320	285	96	B	WBML	231,000	500	154	C						
W4HBK	658,923	919	239	B	AC5K	535,248	756	236	C	WB8IDM	46,410	170	91	B	W8RPI	197,370	510	129	A						
N6AR	593,304	838	236	C	NSHB	345,075	535	215	B	W8GOC	28,875	175	55	B	K8HFM	162,006	403	134	B						
W4HWKQ	176,217	389	151	C	W7SU	223,200	165	180	B	W8XT	27,639	111	83	B	AA8AW	26,082	136	63	C						
W5CZ	95,892	244	131	B	K5GF	178,284	358	166	C	K8WEO	27,507	173	53	B	WB8P	10,065	61	55	C						
W2AW	166,962	244	131	B	KD4HZ	47,874	158	101	A	W8FN	26,796	116	77	C	W8QD	1,035	54	15	B						
AB4KL	14,706	114	43	B	AA5NK	40,320	160	84	C	K8OUT	17,712	123	48	B	K8RH	1,035	54	15	B						
W4VQ	5,280	55	32	C	W5HRF	30,294	102	99	C	K9NI	11,159	79	47	C	WB8RL	2,652	54	26	C						
K4XS (WC4E,op)	470,250	1425	110	C	W5NR	23,940	140	57	C	N8AXA	7,488	64	39	A	KJ0B	38,220	245	52	C						
KC4TIR (N/T)	14,976	128	39	B	WC5D	20,790	90	77	B	W8BORV	3,864	46	28	A	K8JL	37,260	207	60	C						
<b>South Carolina</b>					KV60N	142,824	541	88	C	AF8C	1,932	28	23	B	K8R	283,290	994	95	B						
W3VT	1,270,422	1299	326	C	W6W0N	110,925	425	87	C	K7EG (K8E,op)	37,515	205	61	C	K8HG	83,550	557	50	B						
K4YTL	1,104,300	1450	254	C	AK5Q	18,216	132	46	C	W8JGU	26,280	146	60	B	<b>Missouri</b>										
NU7F	222,780	470	158	B	W5PSP	180,800	670	90	C	KE8XK	660	22	10	A	WC8Y	1,029,732	1276	269	C						
K4CSB	88,818	262	113	B	W5VX	48,240	240	67	C	W8IQ	300,186	981	102	C	KM8L	578,738	889	217	C						
KC4UQ	72,267	221	108	B	NSNMX	77,922	351	74	B	W8FN	164,820	670	82	C	N89B	492,480	720	228	C						
N4IH	62,073	209	99	C	AKGE	6,678	53	42	A	W8BORV	59,334	341	58	B	K8QD	292,572	567	172	C						
K4HOG	57,918	197	96	B	<b>West Texas</b>					W8YRS	26,871	169	53	B	K8W	200,976	424	158	A						
N3KK	240,828	854	94	C	W5VGX	768,201	1099	233	B	W8YRS	38,435	239	55	C	K8W	200,976	424	158	A						
<b>Southern Florida</b>					N5DO	455,607	713	213	B	KL7FAP/W8	351	13	9	B	K8W	200,976	424	158	A						
W484HZ	846,423	1081	261	B	AA5ZX	26,103	113	77	C	<b>West Virginia</b>					K8W	200,976	424	158	A						
WA3NKO	150,396	332	151	C	NZ5M	24,384	127	64	B	W8UWR	79,722	309	86	C	<b>North Dakota</b>										
W4YN	13,572	78	58	B	NSRZ	215,028	724	99	C	W8L7B	348,975	1175	99	C	NZ8R	1,048,416	1304	268	C						
W8P8NL	14,112	96	49	C	W5UDX	71,478	361	66	C	<b>Illinois</b>					N88N	70,902	234	10	B						
WA5AVO	14,112	96	49	C	<b>East Bay</b>					K8XU	2,216,460	2173	340	C	K8E	21,150	141	50	B						
W4EQE	3	1	1	B	K6PJY	691,500	922	250	C	K4XU	2,216,460	2173	340	C	<b>Nebraska</b>										
AC4CE	171,738	658	87	C	K6ATV	618,516	828	249	B	W8UWR	79,722	309	86	C	K8E	21,150	141	50	B						
W25DB4	612	17	12	C	W6FSJ	451,524	764	197	C	W8L7B	348,975	1175	99	C	AO5J	291,444	596	163	B						
KD4DIO (N/T)	8,874	102	29	B	W6EYC	27,951	121	77	C	<b>Idaho</b>					K8E	21,150	141	50	B						
WB4TDH	185,913	681	91	B	NR8E	19,992	119	56	B	KAT7	209,838	853	82	C	K8E	21,150	141	50	B						
K5OTI	19,800	120	55	B	WZ6Z	117,552	496	79	C	AA7JM	139,776	364	128	B	K8E	21,150	141	50	B						
<b>Tennessee</b>					W6BSY	199,881	673	99	C	W1HUE	93,639	289	108	A	K8E	21,150	141	50	B						
W4XJ	1,472,250	1625	302	C	<b>Los Angeles</b>					K7A	21,800	120	60	A	K8E	21,150	141	50	B						
K4AMC	1,465,104	1864	262	C	N6AA	812,214	1014	267	C	K6RN	37,632	196	64	B	K8E	21,150	141	50	B						
K4LTA	1,464,120	1860	294	C	W6MFC	96,784	294	112	C	K6EWL	33,072	212	52	C	K8E	21,150	141	50	B						
NA4K	1,022,688	1072	318	B	N6IBP	82,536	181	152	C	<b>Montana</b>					K8E	21,150	141	50	B						
K4XG	223,392	416	179	B	N6RVC	75,705	245	103	C	KS7T	195,048	516	126	C	K8E	21,150	141	50	B						
AB4SW	142,416	344	138	B	W6NNV	58,916	204	93	B	AA7BG	84,384	293	96	C	K8E	21,150	141	50	B						
W4TYU	80,223	221	121	B	N8IC	46,920	170	92	C	K7ABV	47,240	162	75	C	K8E	21,150	141	50	B						
N1CWR	71,877	247	97	A	N8JN	38,760	190	88	C	K7ABV	76,275	339	75	C	K8E	21,150	141	50	B						
AA4WX	43,848	174	84	C	W6AGDS	33,966	153	74	C	<b>Neveda</b>					K8E	21,150	141	50	B						
W4QGG	15,840	96	55	B	W6YNR	10,944	76	48	B	WA7NIN (N6TV,op)	2,415,969	2433	331	C	K8E	21,150	141	50	B						
K4MZE	12,825	75	57	B	N6TCZ	192	8	8	B	WA7CWM	241,428	649	124	C	K8E	21,150	141	50	B						
AC4HF	7,503	61	41	C	AI6Z	11,997	93	43	B	NT7E	86,292	306	94	C	K8E	21,150	141	50	B						
W4AY (WA4ZU,op)	1,980	33	20	B	W6DN	20,280	130	52	C	<b>Oregon</b>					K8E	21,150	141								

**British Columbia**  
VE7UF 487,350 855 190 C  
VE7IN 23,226 158 49 C 20

**Northwest Territories**  
VC8DR (VE8DR,op)  
322,260 655 164 B

**Single Operator Assisted**

1  
AA2Z 2,885,325 2263 425 C  
K1IU 2,864,684 2243 396 C  
KC1F 2,213,484 2027 364 C  
N4DW1 76,388 214 119 C  
K1TWF 1,059,738 1018 347 C  
WE1F 784,478 1063 242 C  
W1AX 711,552 872 272 C  
AB1A 604,905 823 245 C  
KZ1M 504,348 793 212 B  
AB1U 438,750 650 225 C  
KT2E 430,920 630 228 C  
K1MBO 222,324 388 191 C  
WA1G 153,972 329 156 C  
NG1J 150,975 305 165 B  
WB2DND 130,524 292 149 C  
WA1W 76,388 214 119 C  
KS9Z1 68,310 230 99 C  
WR1B 720 20 12 C

2  
WB2Q 4,604,574 3107 494 C  
W2GD 3,005,796 2164 463 C  
N2MM 2,585,088 2244 384 C  
AA2DU 2,016,300 2068 325 C  
K2NJ 1,269,480 1420 298 C  
W1GD 1,257,254 1174 357 C  
WB2P 1,237,776 964 220 C  
K2WK 1,229,721 1389 293 C  
KY2J 1,110,012 932 387 C  
K2EK 1,016,820 1280 269 C  
KF2O 885,207 1021 289 C  
WU3A 674,250 775 280 C  
K2SB 549,636 662 291 C  
N3KR 500,550 710 235 C  
W2HG 449,085 611 245 C  
KB2DM 382,388 569 224 C  
W2GMA 317,985 493 215 C  
N2AF 309,732 487 212 C  
K2CY 190,800 400 159 C  
WR2G 185,832 356 174 C  
K2PF 179,520 374 160 B  
N2BYU 156,185 359 145 C  
KB2NU 148,365 315 157 C  
N2VW 117,876 209 188 C  
WA2UJK 99,630 205 162 C  
AA1AA 36,816 118 104 C  
KD2NT 36,720 120 102 C  
N2KJM 19,895 101 85 C  
K2DB 5,780 48 40 C

3  
K3WW 4,158,168 2968 467 C  
N3AD 2,938,418 2237 438 C  
K3PK 2,785,200 2200 422 C  
AA3B 1,855,089 1623 381 C  
NN3Q 1,455,906 1453 334 C  
W3VF 1,394,631 1413 329 C  
K3MD 1,240,620 1426 290 C  
K3OO 1,140,831 1363 279 C  
W3USS (K3OQL,op) 1,052,280 1185 296 C  
W3UM 972,192 1066 304 C  
N3NA 969,909 1193 271 C  
W3IU 884,472 1096 269 C  
K3ND 835,002 846 329 C  
KY3N 759,132 781 324 C  
N3ED 687,021 709 323 C  
K3SA 685,800 900 253 C  
NX3A 509,400 600 284 C  
K3ATO 410,238 639 214 C  
NK3U 378,972 484 261 C  
K3CN 356,685 553 215 C  
W3KV 329,728 490 230 C  
N3AM 349,272 588 198 C  
WB2EKK 328,482 553 198 C  
KD2RE 316,575 525 201 C  
WJ3J 210,450 305 230 A  
K3YDX 16,448 168 112 B  
K3RL 15,188 164 104 C  
N3HL 35,550 150 79 B  
WG3T 6,954 61 38 B

4  
N4RJ (KM9P,op) 4,421,520 3204 480 C  
W4MYA 1,297,725 1573 275 C  
K4MF 1,002,960 1194 280 C  
KG4W 724,920 863 280 C  
KF4CI 543,900 700 259 C  
W4LVM 414,729 609 227 C  
AB4RU 327,060 474 230 C  
KX3Q 247,800 413 200 C  
KB4SRE 161,070 295 182 C  
WB4QSS 158,220 293 180 C  
W4JN 97,500 250 130 C  
NK4L 37,248 128 97 C  
K4PB 23,825 105 75 C  
WB4BYV 21,216 104 68 B  
KD4QW 18,612 94 66 C

5  
KA5W 531,990 771 230 C  
WB4V 453,492 646 234 B  
K3L 247,484 491 168 C  
K5LP 152,388 306 166 C  
N5BB 62,016 272 78 C  
WB5CRG 2,268 28 27 C

6  
NBZZ 1,637,496 1596 342 C  
W6YA 1,053,390 949 370 C  
N6JA 881,118 990 294 C  
N3AHA 837,753 973 287 C  
WA6IET 727,353 889 279 C  
N6B 683,253 853 287 C

KV6H 550,125 815 225 C  
K6SG 471,645 699 235 C  
N6BT 363,255 501 255 C  
WB6P 339,810 470 241 C  
K6FO 293,700 445 220 C  
W6SAUE 231,336 406 189 C  
W6OAT 186,930 310 201 C  
WB6U 140,187 563 83 C  
WA6SDM 107,580 220 163 C  
K6OZL 102,765 403 85 C  
K6MC 99,792 216 154 C  
AB6FO 65,190 205 106 C  
WB6CTA 33,852 124 91 C  
WA6LLY6 24,102 103 78 B  
AJ6V 1,953 31 21 C

7  
N2ZE (K3V,op) 2,845,248 2336 406 C  
N7KZN 428,976 662 216 B  
N7IRR 313,458 587 178 C  
KG7EM 26,575 127 75 C

8  
WF3G8 2,842,800 2369 400 C  
K6CJ 2,032,254 178 381 C  
K6MR 1,610,523 1583 337 C  
NG8D 392,547 731 179 C  
K6CV 366,771 683 179 C  
N6JQX 248,952 451 184 C  
K6PYD 213,363 453 157 C  
W6CG 188,718 443 142 C  
NBATR 160,344 262 204 C  
K6ES 32,232 136 79 C

9  
W9OP 972,822 1154 281 C  
K6GI 473,040 730 216 C  
N9XX 212,004 468 151 B  
K9OSH 123,876 279 148 B  
WN9O 120,984 284 142 C

0  
N8AT 1,238,418 1286 321 C  
NC8O 865,199 1041 213 C  
N3SL 175,914 337 174 B  
W8PSY 157,368 316 166 C  
AJ8CY 67,850 205 110 C  
AA8DZ 30,000 125 80 C  
NU8P 29,250 125 78 C  
WB8ZRL0 28,764 141 68 C  
W8MG 13,845 71 65 C  
K1ER 2,232 31 24 B

**Multioperator**

**Single Transmitter**

1  
K1VR (+AD1C,NZ1W,KM3T) 3,678,096 2812 436 C  
KR1S (+K1TN) 1,542,246 1282 401 C  
WA1U (+K1XM,N1EP,U,WJ1B,N4OGW) 1,289,457 1391 309 C  
WA1PMA (+WS1F) 148,176 343 144 C  
W1BK (+K1TXH) 38,493 141 91 C

2  
WW2Y (+K2W,N2NU) 3,284,310 2638 415 C  
K2SG (+WA2SR0) 2,879,370 2461 390 C  
AA2FB (+K2QMF) 2,168,613 1959 389 C  
K2JPM (+WB2LRLU) 267,189 527 169 B

3  
W3BGN (+K2TW) 3,697,632 2776 444 C  
W3XU (+N8NA,UT4UX) 3,498,714 2811 414 C  
AA1K (+K3WJ,N8NA) 2,907,651 2417 401 C  
W3GG (+W3J) 2,374,521 2281 347 C  
WB3EPC (+W3FG) 1,443,300 1700 283 C  
WF3T (+W3GJ,N8CO) 1,413,312 1732 272 C  
WB3FIZ (+ops) 863,766 1021 282 C  
K3DI (+W3GJ,W44EH) 775,170 891 290 C  
N3RW (+N3HW) 235,188 417 188 C  
WA3SQU (K3TM,W3IDT,ops) 27,846 182 51 C

4  
NAZZ (+WY7,W9W) 2,203,320 2623 290 C  
NQ4 (+ops) 620,832 928 223 C  
W1UA (+N4RFR) 74,256 221 112 C  
W4RV (+K1FR) 12,528 116 36 C

5  
KSQJ (KDSJ,KTSV,N5HD,NBAT,ND8P,ops) 1,634,589 1501 363 C  
WF5E (+K5GFA) 1,123,632 1377 272 C  
WD5GSL (N5BTH,W5GKSD,W5SABC,ops) 154,875 413 125 C

6  
W6VLD (N6s KN,WLY,ops) 3,408 71 16 C

7  
KP7P7 (+K6TX,W7LR) 1,592,100 1740 305 C  
NK7U (+N1TT,W7ZTM) 1,349,580 1680 271 C

WA6NKO (+N6HR,N7s WDN,WFB) 630,630 1001 210 C

8  
KBCC (+KR8V,NC8I,W8UA) 2,903,040 2560 378 C  
KF8QE (+K8BDF) 1,687,770 1974 285 C  
NBAGU (+WA8RJF) 341,325 615 185 B

9  
K8LTR (+K8SO,N8AJ,W8EB) 1,572,090 1807 290 C  
K8JP (+N2ZR,W8Z,W89R) 630,508 1049 264 C

0  
NC8P (+NU8Q,W8F8,W8D8,W8GV,W8W,W8RG) 1,744,680 1876 310 C  
KF8GV (+AC8W,W8BRLY) 248,800 520 160 C  
A8BA (+K8BGDS,N8KFE) 181,478 426 142 C

VE  
VE1AI (+VE1s AGE,JMM,NB) 1,130,760 1396 270 C

**Two Transmitter**  
K1AR (+K1s EA,GQ,WNAKKN) 8,295,039 5149 537 C  
N3RS (+ops) 6,864,726 4426 517 C  
K1DG (+K1s ETT,TR,W21F) 6,195,618 4147 498 C  
K8AZ (+K8s BL,NZ,K8M,N8s ARD,LXS,N8L,W8S,W8CJ) 6,044,727 4189 481 C  
K2LE1 (+K1,K1K,W1FJ,W1RM,K2SX,N2UN,N2AM,W2AX,W2GGE) 5,353,452 3811 468 C  
M4AR (+N1WR,K4s FU,T0,K4VH,N4TY) 5,051,811 3889 433 C  
N2IC8 (+W2ZQ,K8K,K8GE,N8O,N8P) 4,484,172 3542 422 C  
K81H (+AK1N,K1s GX,YRP,KC1Q,W1HYN) 4,069,824 3094 432 C  
WD8LLD (+N2AK,AF8A,N8JEC,W8XM,W8BAUB) 3,842,796 2972 431 C  
W8GO (+AA8s LB,WJ,N8B8J,N8CO,WY7M) 3,595,578 2902 413 B  
K2TD (WB2s R,YOF,NM3W,W8FFC,ops) 2,596,800 2164 400 C  
K6X (+N4EA,N6TG,W6XD,W6BJMS) 2,575,650 2230 385 C  
K3II (+K3IE,N43K) 2,452,632 2246 364 C  
WS1E (+NO1V,K2TE,K8LT) 2,313,360 2040 378 C  
WT3Q (+AB2E,KC3NE,KD3YX,N3BNA,NM3K,W3E3) 2,175,600 1850 392 C  
N1AU (+WC1D,WM1K) 1,322,514 1289 342 C  
K3ANS (+K3YD) 470,232 622 252 C

**Unlimited**  
N2RM (+K2AEV,K2PF,KR2J,KZ2S,N2s AA,EA,NT,W2RQ,W2MH,K3UA,N4H1) 40,525,002 8293 578 C  
W3LP (+K3IG,K3s NA,RA,SO,KF3P,K3TV,N3GB,N3DA,W3EKT,NW5E,N8II,W8MAZ,K3EA) 10,555,032 6004 586 C  
K1ST (+K1s BG,FWE,MNS,RX,XM,XX,NX1s H,P,NW1U,AI3E) 9,459,072 5796 544 C  
W8AH (+AA8D,K9LJ,N8KAU,N89C,K8s FV,TG,N8B8H,W8BRW,W8BADO,W8WJ) 7,433,289 5067 489 C  
KR1R (+K81W,KM1P,K1YH,N1FJ,NQ1R,NS1M,NU1P,N2MG,NT2X,AK4L,K4JK) 7,429,215 4735 523 C  
KS3F (+N8EF,NK3Z,W3AF) 3,523,425 2725 431 C  
NF2L (+K2TCK) 1,135,566 1237 306 C  
K1GW (+K1CIE) 705,600 800 294 C  
NW8F (+WAZUJH) 235,620 714 110 B

**DX CW**

**Single Operator**

**Africa**  
**Madeira Islands**  
CT3CU 87,480 540 54 C 20

**Canary Islands**  
EA8AB 564,405 985 191 C  
EA8AS 552,672 1212 152 B  
EA8BI 90,168 289 104 B

**Liberia**  
EL2CX (K3RV,op) 714,531 1247 191 C

**Chagos**  
VQ8JT 62,331 263 79 B  
VQ8SS 24,300 225 36 C 40

**Burkina Faso**  
XT2BW 13,860 84 55 B

**Zimbabwe**  
Z21HS 165,996 522 106 C

**Ascension Island**  
ZD8Z (N6TJ,Op) 4,242,381 4433 319 C  
ZD8LI 243,078 1397 58 C 15

**Niger**  
SU7M (JH4NMT,op) 1,483,218 2178 227 C

**Kenya**  
SZ4FO 43,290 195 74 A

**Lesotho**  
7P8SR 432,150 1075 134 B

**Malawi**  
7Q7XW 511,200 1136 150 C

**Asia**  
**Pakistan**  
APWAZWYR 106,500 355 100 B

**China**  
BY8AC 96,930 359 90 B

**Korea**  
HL9HH 101,640 308 110 C

**Saudi Arabia**  
HZ1HZ 820,575 1563 175 C

**Japan**  
JH7WQ 1,637,550 2426 225 C  
JA8RW 1,592,322 2278 233 C  
JA8ONJ 1,504,998 2073 242 C  
JH7DNO 1,373,628 2026 226 C  
JH1AEP 1,216,836 1779 228 C  
JH7XZC 1,206,252 1836 219 C  
JH7XGN 1,017,042 1534 221 C  
JH7QCV 854,307 1431 199 B  
JAS7UJ 775,280 1480 177 C  
JA1JKG 769,275 1315 195 C  
JH3CXL 627,984 1176 178 C  
JF1SEK 441,450 1090 135 B  
JK1GXU 352,350 783 150 B  
JA7SUR 328,536 702 156 B  
JA1WYQ 304,776 664 153 B  
JK3GAD 304,137 719 141 B  
JA8RPU 231,840 552 140 A  
JA1IAJ 217,494 562 129 B  
JH7CDE 203,010 505 134 B  
JA8RIM 190,464 514 121 C  
JH1GOH 180,960 520 116 B  
JK1GKG 174,099 443 131 B  
JAN8OQ 148,596 406 122 C  
JA1GTF 142,080 370 128 A  
JABAUE 123,165 357 115 B  
JH3BFC 110,780 355 104 B  
JA7FTF 110,664 636 58 C  
JA2OJ 99,666 339 98 B  
JA1KEG 96,910 314 105 B  
JE4VRF 93,906 282 111 B  
JASCDL 87,984 282 104 B  
JASJP 75,888 272 93 C  
J71AJA (KBHV,op) 72,576 278 84 C  
JA2KKA 69,552 276 84 B  
JH3JYS 66,528 224 99 B  
JH1HC 63,648 221 96 B  
JH1FV 56,088 228 82 B  
JAS4UC 55,620 180 103 B  
JA8CSH 54,450 165 110 B  
7L1GVE 48,988 368 42 C  
JA8CH 39,270 170 77 B  
JASUWB 38,628 174 74 B  
JAZFN1 37,382 152 82 B  
JH1HGF 36,162 147 82 B  
JA1V2M 36,108 177 68 B  
JA2QVP 34,875 155 75 C  
JA6JPH 30,150 150 67 B  
JA1R1K 29,547 147 67 B  
JA1AB 28,280 157 60 B  
JAS1BT 27,930 133 70 B  
JA1WHG 26,910 130 69 B  
JH1PY 26,819 124 67 B  
JAS1F 24,360 140 58 B  
JH1DWO 23,958 121 66 B  
JH1GSE 23,424 122 64 C  
JH1GSM 18,900 126 50 C  
JAS1CM 14,850 99 50 B  
JESJLB 14,688 102 48 B  
7M1JMN 14,544 101 48 B  
JF1RDV 14,190 86 55 B  
JH1RQ 13,770 102 45 B  
JASQJ 10,965 85 43 B  
JA1KJK 10,560 90 44 B  
JA8QX1 10,164 77 44 B  
JA1BSG 9,348 76 41 B  
JH8ETC 7,688 71 36 B  
JH7DOT 4,650 50 31 A  
JESKGT 4,388 52 28 B  
JG3EHD 4,200 56 25 B  
JASWFO 3,402 42 27 C  
JH1NXU 3,375 45 25 B  
JA1KJW 3,354 43 26 A  
JASJZ 189 9 7 A  
JAS2SR 75 5 5 B  
JATN 25 12 7 C 160  
JA6JHA 22,848 224 34 B 80  
JF1YRK (JASVDA,op) 11,622 149 26 B 80  
JH7AFR 6,666 101 22 C 80  
JH1JC 1,620 60 9 B 80  
JA1POS 27 3 3 B 80  
JABUMV 60,738 382 53 B 40  
JK1OPL 48,645 345 47 C 40  
JA1LZR 44,763 347 43 B 40  
JH1WJ 34,848 294 44 C 40  
JL2CF 33,258 241 46 B 40  
JH7OMD2 23,421 214 67 B 40  
JASHL 18,083 163 37 C 40  
JH4PMX1 5,292 84 21 B 40  
JA7FFN 3,876 76 17 B 40  
JH1BDS 2,790 62 15 B 40  
JG2IGY 2,496 52 16 B 40  
JH1TUJ 1,580 40 13 B 40  
JH1UTP4 1,512 42 12 B 40  
JF2MVI 1,188 33 12 B 40  
JA7JHT 1,131 29 13 C 40  
JH7P 756 28 9 B 40  
JETJRD 720 24 10 B 40

JH7QXJ 25,803 183 47 C 20  
JA1BNW 9,408 98 32 C 20  
JA1KKA 3,675 49 25 C 20  
JA1ECO 189 9 7 B 20  
JH2BCN 130,131 761 57 C 15  
JF3PLF 118,440 705 56 B 15  
JE2WEN 73,548 454 54 B 15  
JS1JTX 62,010 390 53 B 15  
JA5APU 51,696 359 48 C 15  
JE1BDC 48,450 323 50 B 15  
JH8OGB 47,334 322 49 B 15  
JA8GCE 31,812 241 44 A 15  
JH2AMH 29,484 252 39 B 15  
JA8BY 27,324 207 44 B 15  
JO1MEE 24,420 185 44 B 15  
JN2QYN 12,420 115 36 B 15  
JA7MWC 11,620 112 35 B 15  
JH1IXU 7,104 74 32 B 15  
JH1SBE 6,882 74 31 B 15  
JH8EPI 4,608 64 24 B 15  
JH2MWH 2,898 46 21 B 15  
JA3JOT 2,484 46 18 B 15  
JG8PBE 1,620 30 18 B 15  
JA8BXW 792 24 11 A 15  
JH8CLU 157,296 904 58 B 10  
JA1YDU (JH8ZLN,op) 153,180 851 60 B 10  
JA1KFX 145,986 839 58 B 10  
JH1XUZ 130,368 776 56 B 10  
JU1TBB 122,949 719 57 B 10  
JH8WB 103,290 626 55 B 10  
JA2ABX 91,575 555 50 B 10  
JO1CRA 90,882 561 54 B 10  
JH8KYU1 86,832 536 54 B 10  
JA7NWF 85,224 536 53 B 10  
JA1NLX 81,324 502 54 B 10  
JO3JUL 70,119 441 53 B 10  
JE1REJ 68,202 421 54 B 10  
JE1KJ 63,918 402 53 B 10  
JE1TRK 63,150 421 50 B 10  
JH1BTG 59,058 386 51 C 10  
JH2AU 47,520 330 48 B 10  
JH3QIY 40,770 302 45 C 10  
JA2TK 35,190 230 51 B 10  
JA1SJV 33,417 237 47 B 10  
JK1KBI 24,816 188 44 B 10  
JH1NOP 20,520 180 38 B 10  
JA7ARW 19,680 160 41 B 10  
JR2NTC 17,262 137 42 B 10  
JH1VKW7 15,732 138 38 B 10  
JA7JNH1 10,767 97 37 B 10  
JH1JN 10,200 100 34 B 10  
JA1XPU 6,030 67 30 B 10  
JA6QDU 5,832 72 27 B 10  
JA2YK 4,263 49 29 A 10  
JA1EPC 3,102 47 22 B 10  
JE1HXZ 1,620 30 18 B 10  
JA1KEG 924 22 14 B 10  
JA3BC 462 14 11 C 10  
JL1MW 420 14 10 B 10  
JA1AAT 60 5 4 B 10

**Ogasawara**  
JH7LHJUD1 34,200 200 57 B  
JH1TNNJUD1 3 1 1 B 80  
JH1EFPJUD1 2,040 40 17 B 40  
JO1NGTJUD1 23,256 204 38 B 15  
JL1EUPJUD1 79,542 491 54 B 10

**Mongolia**  
JT1CS 49,266 357 46 B 20

**Asiatic Russia**  
EX8S (UA6SAU,op) 554,580 1170 158 C  
UA9MA 369,045 885 139 C  
RABJY 121,452 349 116 A  
UZ3CWX 80,712 354 76 C  
UA8LH 80,010 254 105 C  
UW8CM 67,620 245 92 C  
UA8DV 15,180 115 54 B  
UA8UD 6,300 60 35 A  
UA8SR 2,952 41 24 C  
R9W9WA 7,743 89 29 C 40  
RZ9UA 254,520 1414 60 C 20  
UA8QCC 112,896 672 56 C 20  
UA8JKM 57,288 341 56 B 20  
UW9AG 50,058 309 54 B 20  
UA8JH 25,245 187 45 C 20  
UA8JA 16,263 139 39 B 20  
UA8JW 9,888 103 32 C 20  
UA8XJU 5,616 72 26 B 20  
UA8KCL 116,424 693 56 C 15  
UA8KA 71,804 442 54 B 15  
UA8TAA 65,610 405 54 B 15  
RA8CEJ 24,975 185 45 B 15  
UA8XYG 13,455 115 39 B 15  
UW8SR 6,960 80 29 B 15  
UA8US 1,890 35 18 B 15  
UA8FZ 178,524 1044 57 C 10  
UA9OA 49,350 350 47 C 10

**Azerbaijan**  
UD6DKW 35,616 212 56 C

**Georgia**  
UF6CX 20,520 171 40 B 20

**Uzbekistan**  
R1TA 116,892 382 102 C

**Tadzhikistan**  
UJ8JA 232,152 569 136 C

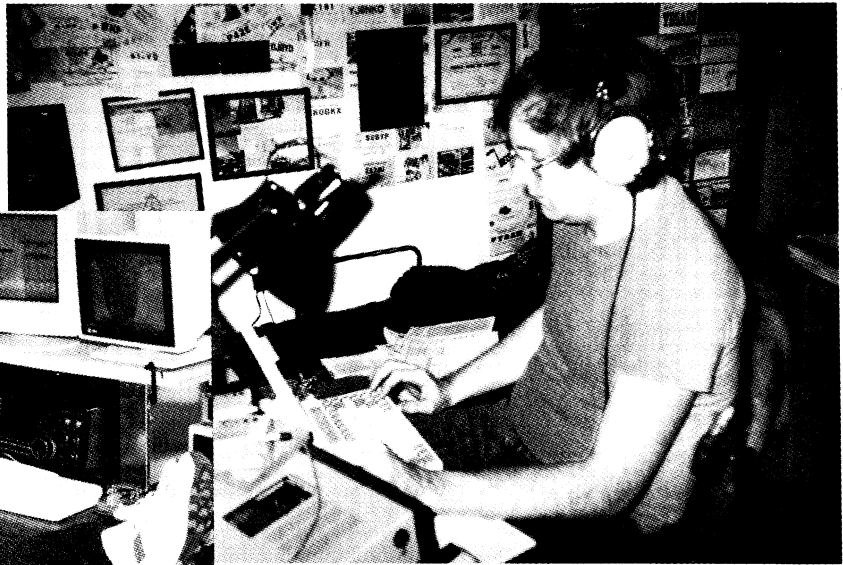
**Kazakhstan**  
UL8LWF 528,000 1100 160 C  
UL7OB 118,965 385 103 C  
UL7RE 14,040 117 40 C 20  
UL8GAK 9,828 91 36 B 20  
RL7L 5,994 74 27 B 20  
UL7CU 15,318 138 37 C 15  
UL7ROZ 12,576 131 32 B 10

**Kirghizia**  
UM8MCF 2,331 37 21 B  
UM8MZ 9,879 89 37 C 20

**India**  
VU2NBT (AA4U,op) 168,516 453 124 C



George, W0UA, feels confident with his first-place WVE single-band 10-meter wins on both modes from W0UN's super station.



Tom, K2TW, is hard at work, helping to secure the plaque for the W3BGN multisingle CW effort.



Kazunori, JK3GAD, joined Yoshiyuki, JH4NMT, at 5U7M in Niger. Thanks for the great multiplier!



Dmitry, UT5UGR, finished first-place, 20-meter CW in Ukraine.



A welcome multiplier from Kuwait on phone was multisingle 9K2TC, operated by (l-r) Tom, VE3OME; Don, KJ6TC; and Tom's son.



Kevin, WA8ZDT/C6A, operated his Yaesu FT-757 transceiver with a 200-foot wire antenna strung from the upper balcony of his villa apartment on Paradise Island in the Bahamas.

UC2WJ 39,042 241 54 B 20  
UC2ADX 111,375 675 55 C 15  
UC2AB 22,806 181 42 C 10

**Moldova**  
UOSON 279,456 656 142 C  
RO4OW 22,263 81 41 A 15

**Latvia**  
YL2KL 2,111,418 2861 246 C  
YL2SM 469,797 1051 149 B  
YL2KO 190,773 517 129 B  
YL2EC 55,550 246 75 B  
YL2TW 20,178 118 57 B  
YL2ZU 50,160 304 55 C 15  
YL2PJ 31,284 237 44 C 10

**Romania**  
Y02DFA 148,800 400 124 B  
Y08FR 31,482 159 66 B  
Y03CR 30,240 140 72 A  
Y04RDN 2,640 40 22 A  
Y06ADW 714 17 14 A  
Y02LEF 2,208 46 16 B 40  
Y04AAC 1,554 37 14 B 40  
Y08HP 48,069 327 49 C 20  
Y0AZF 17,712 144 41 B 15  
Y02BP 57,186 353 54 C 10  
Y03YC 21,780 165 44 B 10  
Y06LV 5,688 79 24 A 10

**Yugoslavia**  
YU7AV 1,719,120 2470 232 C  
4N3CQ 218,568 1301 56 C 15  
YT3T (YU3BQ,op) 218,520 1214 60 C  
YU1SB 192,060 485 132 B  
YU7SF 166,500 444 125 B  
YU7ZV 128,520 408 105 B  
YU1HA 96,657 319 101 B  
YU7XM 78,795 309 85 B  
YU1BO 68,607 231 99 B  
YU1KO 59,856 232 86 B  
YU7LS 56,571 173 109 B  
YU7S 56,250 250 75 B  
YU3QJ 12,354 142 29 C 80  
YU4BO 7,659 111 23 B 80  
YU3HA 7,275 97 25 C 80  
YU3EW 120,204 742 54 C 40  
YT7A (YU7GO,op) 119,091 749 53 C 40  
YZ7V 50,760 360 47 C 40  
YZ3AA 24,642 222 37 C 40  
YU2MS 10,062 129 26 B 40  
YT4EA 133,551 781 57 B 20  
YT3AA 215,040 1280 56 C 15  
YU3RO 205,029 1190 57 C 15  
YT3EW 158,517 927 57 C 15  
4N4U 126,168 751 56 B 15  
YZ3A (YU3BC,op) 260,091 1521 57 C 10  
4N2V (YT2ER,op) 201,666 1159 58 C 10  
YU3BM 158,517 927 57 C 10  
YU3BU 151,200 900 56 C 10  
4N3U (YT3WM,op) 144,705 877 55 C 10  
39,057 277 47 C 10  
4N4A 21,195 157 45 B 10  
YU7KM 15,840 132 40 B 10

**North America**  
**Bahamas**  
C6AWABZDT 1,055,511 1413 249 B  
C6AN4RP 389,934 747 174 B

**Panama**  
HP1AC 278,382 559 166 B

**Grenada**  
J37ZR (K1ZR,op) 3,660,768 4237 288 C

**Alaska**  
WL7E 2,868,177 3263 293 C  
NL7DU 1,094,391 2061 177 B  
AL7RI 70,092 236 99 B  
NL7YL 52,800 220 80 A  
AL7MK 17,613 103 57 A  
KL7UR 28,290 205 46 C 40  
NL7VJ 70,119 441 53 C 15

**Virgin Islands**  
K5NA/KP2 4,369,680 4335 336 C  
NP2I 1,950,024 2621 248 B  
N6OP/NP2 286,230 1645 58 C 20

**Puerto Rico**  
WP4HW 1,290,990 1871 230 B  
KP4DB 29,251 129 73 A  
N9M/KP4 45,954 333 46 B 160

**St Maarten, Saba, St Eustatius**  
PJ5JP 214,890 551 130 B

**Costa Rica**  
TE4T 1,147,680 1594 240 B

**Antigua and Barbuda**  
V27T (YU1RL,op) 4,527,711 4761 317 C  
V2WJ2O 5,664 59 32 B

**Belize**  
V31VOA (AE6U,op) 171,000 1000 57 B 10

**Anguilla**  
VP2EST 1,167,060 1835 212 B

**Mexico**  
XE1/A6RX 2,877,846 3274 293 C  
YS/W4IFN 18,573 151 41 B

**Cayman Islands**  
ZF2QV (KT6V,op) 3,895,328 3948 312 C  
ZF2RY 205,713 1203 57 C 15

**Barbados**  
8P9CP (KD6WW,op) 3,436,914 3614 317 C

**Oceania**  
**Philippines**  
NY7E/DU7 61,404 238 86 A  
KG6HU/DU1 49,500 330 50 B 10  
DU3HF 37,224 282 44 B 10

**French Polynesia**  
FO8LM (VE7HA,op) 15,750 105 50 C

**Guam**  
KH2EI 270 10 9 B 10

**Hawaiian Islands**  
NH6T (WBZZ,op) 3,119,364 3396 306 C  
AH6JF 788,236 1327 198 C  
KH6XT 177,132 1018 58 C 10

**Papua New Guinea**  
P29DK 40,545 159 85 B

**Australia**  
VK2APK 1,033,968 1657 208 B  
VK2AYD 226,800 525 144 B  
VK6HG 29,394 142 69 B  
VK2DID 11,844 84 47 B  
VK2AID 1,632 32 17 B 40  
VK4TT 20,640 160 43 B 20  
VK4XA 133,002 821 54 B 10  
VK8BE 2,280 40 19 B 10

**Lord Howe Island**  
VK9XM (W5BOS,op) 6,570 73 30 B 10

**Indonesia**  
YB3OSE 138,294 394 117 C  
YB2FE 918 18 17 B  
YB2FRR 73,968 536 46 B 10

**New Zealand**  
ZL3GQ 130,845 793 55 B 40

**South America**  
**Chile**  
CE5SPR 46,170 342 45 B 15

**Bolivia**  
CP5/N3JT 1,397,340 2218 210 C

**Colombia**  
HK1KXA 223,068 1282 58 B 10

**Argentina**  
LU1EWL 103,356 348 99 B  
LO3F (LU6FAZ,op) 5,742 58 33 B  
LU1CX 82,926 542 51 B 20  
LU4HKH 41,184 286 48 B 15

**Peru**  
OA4ZV 838,257 1253 223 B

**Aruba**  
P48M (K5GO,op) 4,428,216 4316 342 C

**Netherland Antilles**  
PJ2J (W1WEF,op) 4,396,098 4454 329 C

**Brazil**  
PY2OU 405,756 867 156 B  
PY2NY 275,616 696 132 B  
PP1RR 38,880 160 81 B  
PT7NK 30,954 154 67 B  
PY2CPJ 7,222 66 39 B  
PY4BHB 810 18 15 B  
PY2ZJ 1,215 27 15 B 20  
PY1AJK 6,510 70 31 C 15  
PY4OY 73,299 461 53 C 10  
PY6WT 29,520 240 41 B 10  
PY3CJ 3,432 44 26 B 10

**Fernando de Noronha**  
ZY0XF (W9VA,op) 480,633 1061 151 C  
1,559,712 2321 224 C

**Venezuela**  
4M5V (K3UOC,op) 341,145 665 171 C  
1,663,389 2031 273 C  
60,270 410 49 C 40

**Paraguay**  
ZP6CW 21,120 160 44 C

**Single Operator Assisted**  
**Asia**  
JY3YBB (J3ERV,op) 1,229,266 1897 216 C  
JR4GPA 308,672 759 136 B  
JR2BNF 101,442 319 106 C

**Europe**  
ON4WE 898,800 1400 214 C

**Multipoperator**  
**Single Transmitter**  
**Asia**  
JA8YBV (JO1DFG,JE8TNN,JE8BS BNZ, TMI,JGN8D,JE8BS DHA,WJS,ops) 1,734,291 2379 243 C  
UZ9QWA (UA6E QAU,QBB,QDL,QN,ops) 1,555,776 2336 222 C  
JA7YAA (JF1CKX,JG7PSJ,JE8AWL,ops) 974,592 1504 216 C  
UZ9CWW (RA9CO,UA9CDD,ops) 890,028 1478 201 C  
UA9-154-2105,UL7-028-577,ops)  
HZ1AB (AA8OB,KMAE,SM3CXJ,ops) 825,120 1440 191 C

**UZ9CWW (UA6E CF,CHW,CII,UW6E,ops) 781,650 1350 193 C**  
UL8LWA (RL7LW,UL7LW,ops) 537,579 1127 159 C  
UZ9YXI (+ ops) 344,634 809 142 C  
UZ9SXF (UA6E SLT,SUI,SUS,UW6SN,ops) 179,154 538 111 B  
R9X (UA9S XAC,XFR,XLW,ops) 153,398 482 113 C  
UZ9QWF (RA8OB,UA6E QKE,098-239,ops) 118,668 341 116 C  
UZ9YXK (+ UA9XGY) 19,656 117 56 B

**Europe**  
UX1A (RV1AW,UA1S ABR,AIU,AKC,ALZ,ARL,BX,CFL,UV1AA,UW1AE,UA1S-169-432,-169-946,-169-2475,ops) 4,422,888 5228 282 C  
HG1S (HA1S AH,DAC,DAE,TJ,TW,ops) 3,298,318 2655 257 C  
TM5C (F1LGE,F6HSV,ops) 3,272,925 3775 289 C  
FS1N (+ F6ARC) 3,066,625 3705 275 C  
4U11TU (AA6MC,G3s XTT,WGV,ops) 2,994,381 4041 247 C  
OL1A (OK1s DIX,DOK,DXC,FCW,OPK2PZ,ops) 2,144,418 2966 241 C  
OK3KFF (+ ops) 2,039,295 2645 257 C  
LA2AB (LA4DD,LA8SDA,ops) 1,391,138 2393 224 C  
II2A (I2s UIY,VXJ,IK2EGL,ops) 1,983,366 2862 231 C  
OG2HE (OH6s CI,CT,ops) 1,791,954 2643 226 C  
OG0BBF (OH2s BBF,IC,ops) 1,744,200 2584 225 C  
DF5UL (+ DL2s MEH,SCJ) 1,740,645 2469 235 C  
OK3KAG (OK3s CGN,CIR,TWR,WDX,ZAF,ops) 1,714,788 2507 228 C  
DL8CMA (DL2EBX,DL8OB,ops) 1,066,320 2328 230 C  
OH2PM (+ OH1WZ) 1,554,404 2331 228 C  
HG5C (HA1s AD,AG,HA5s BMS,KP,MO,HA7S,BOP) 1,582,092 2313 228 C  
SL8CB (SM8s DRD,NZY,ops) 1,564,992 2506 208 C  
OG3ES (OH3s ES,TM,XP,ops) 1,394,811 2123 219 C  
LA1T (LA4BQ,LA9UX,ops) 1,349,856 2064 218 C  
DF8RR (DL7AKC,Y2A0O,Y44NO,ops) 1,309,500 1940 225 C  
CU3LE (CU3s LE,F,CU3K/F2E,ops) 1,258,962 1961 214 B  
HA6KNG (HA6s KNV,KNV,OB,IO,OO,ops) 1,233,225 2025 203 C  
YU4IEF (+ ops) 950,649 1561 203 C  
UK4W (RW4s WO,WR,UA4s WAD,WVW,ops) 935,136 1528 204 C  
UB3JWW (RB3JA,UB3s JD,JW,ops) 895,104 1344 222 C  
DL3HAH (+ DL1HB7) 888,030 1430 207 C  
SP1PEA (+ ops) 882,930 1549 190 C  
UZ1OWZ (UA1s OMS,OZ,-113-244,-113-630,-113-743,ops) 834,861 1457 191 C  
UZ1AWO (UA1OAF,UA1s-169-900,-169-2391,ops) 809,280 1405 192 C  
UZ4WVA (RW4WA,UA4s WA,WAN,WAZ,ops) 799,431 1417 181 C  
IK6PHU (I6s MYQ,MMI,IK6S LZR,PHU,ops) 636,120 1178 180 C  
OK2KOD (OK2s BDI,BGR,BNX,PID,ops) 616,605 1111 185 B  
UZ1TWB (RA1TE,UA1s TAF,144-380,ops) 493,296 956 172 C  
UZ3AWR (UV3s ADX,AEV,UA3s -170-126,-170-1069,ops) 480,633 1061 151 C  
YU7AOP (+ ops) 428,355 835 171 B  
LZ2KBA (+ ops) 341,145 665 171 C  
UZ6JWZ (UA6s JAX,JGQ,JMM,JZ,ops) 299,847 787 127 C  
IK3QAR (+ IK3DBH) 247,908 566 146 B  
YU2HST (YT2s IH,JH,NC,ops) 216,225 775 93 C  
UZ4HXX (RA4HRL,UA4s HVX,KDX,ops) 187,200 520 120 C  
UZ3AWV (+ ops) 96,048 348 92 B  
UB4LWY (UB4LJ,UB5s-077-2473,-077-2486,ops) 82,062 291 94 C  
HA3KHC (+ ops) 12,054 98 41 C  
UT4UWC (+ ops) 9,207 93 33 C  
OK3KUN (+ ops) 5,040 56 30 B

**North America**  
ZF2KE (K9s DX,HMB,RS,ops) 5,160,780 5030 342 C  
XE2EBE (AA6DP,N6PE,NF6H,ops) 2,939,070 3130 313 C  
V47MO (+ ops) 2,886,300 3207 300 C  
KL7RA (+ AL7CD) 2,477,052 3316 249 C

**Two Transmitter**  
**Asia**  
JA3ZOH (JE3MAS,JG3KIV,ops) 2,231,376 3248 229 C

**Europe**  
UZ2FWA (UA2s FF,FJ,FM,FZ,ops) 4,097,184 5096 288 C  
HG5A (HA5s AWH,FA,FM,GF,IW,LN,MK,ML,OM,HA7RY,ops) 3,554,037 4437 267 C  
EZ6L (UA6s LFQ,LO,LV,UBSITW,UV6LPL,UA6s 150-1103,150-1403,ops) 2,635,500 3514 250 C  
4N4C (YT4MW,YU4s KM,MA,4N4D,ops) 1,541,784 2264 227 C  
LZ5M (LZ1s PF,PM,RU,LZ2V,LZ3SM,ops) 1,439,424 2142 224 C

**Oceania**  
AH8AC8W (+ K8s AQM,DD,MX,NBCC,VE3RIK) 2,003,484 2806 238 C

**Unlimited**  
**Asia**  
JA1YFG (+ ops) 494,328 958 172 B

**Europe**  
I3VHO (IK2s NCJ,QE1,3Es EVK,JSS,KVW,MAU,QJZ,VHO,VJ,WK3s HZI,ORD,ops) 3,882,858 4606 281 C  
4N1Z (YU1s DX,LL,QL,QU,VO,YX,ops) 1,191,582 2058 193 C  
OG3AT (OH3s DC,FS,LB,NB,ops) 40,425 175 77 C

**North America**  
HIBA (+ H8XYZ) 4,191,366 4183 334 C

**W/E Phone Single Operator 1**  
**Connecticut**  
K1RU 3,079,440 2820 364 C  
W1U1U 1,865,685 2039 305 C  
WS1Y 1,067,616 1348 264 C  
K1VDF 819,720 1242 220 C  
KC1XR 389,532 572 227 C  
K1YRP 305,274 613 166 B  
W1QK 267,750 510 175 A  
W01P 243,540 451 180 C  
KA1CZF 223,200 480 155 A  
AB1U 218,526 473 154 C  
WV1C 181,764 396 153 C  
N1EOL 161,994 406 133 B  
WA2WIP 127,224 342 124 C  
W1EHL 101,730 290 117 C  
WR1H 94,743 119 99 B  
W1DO 30,000 100 100 C  
K1NCD 25,137 133 63 B  
NM1K 12,495 85 49 A  
KH6CP/1 3,861 39 33 A  
K1ZZ 47,736 221 72 C 40  
W3AZD 23,430 142 55 B 20  
K2SS/1 907,200 2160 140 C 15  
KS1L 850,178 1782 123 C 10  
KB1WH 550,560 1480 124 C 10  
W1WEE 375,280 1189 107 C 10  
KG1D 368,118 1203 102 C 10  
KA1ILG 245,106 801 102 C 10  
N1FHR (N/T) 48,750 250 65 B 10  
KA1OX 40,542 233 58 B 10  
KA1SVK 38,130 205 62 C 10  
N1KWW 32,832 192 57 B 10  
W1RDQ 23,244 149 52 B 10  
KE1C 22,776 146 52 B 10  
WA1VRD (N/T) 11,400 95 40 B 10

**Eastern Massachusetts**  
W1G1H 1,668,225 1711 325 C  
KA1DWX 846,036 993 284 C  
N1HOQ 827,730 1082 255 B  
W1KRS 489,084 769 212 C  
W1FM 297,528 539 184 C  
WB2UMF 236,052 498 158 B  
N1DEA 226,746 442 171 C  
KB1KM 106,506 301 122 B  
N1HKV 93,600 300 104 B  
AB6E 93,280 283 110 C  
WA1LXP 61,812 234 101 C  
KC1PR 56,502 219 86 C  
N1FYZ 35,400 200 59 B  
A13E 33,744 148 76 C  
N1LOO (N/T) 10,197 103 33 B 10  
KA1AMR 180 10 6 B 10

**Maine**  
W1OO 1,809,504 1648 366 C  
K2K9Z 1,412,748 1524 309 C  
K1JB 251,843 521 161 C  
K1MBO 161,804 402 134 C  
N1MFC 120,006 339 118 A  
KR1B 68,013 229 99 C  
K1UO 57,288 308 62 C 80  
W1XN 123,975 551 75 C 15  
KA1RL 59,184 274 72 B 10

**New Hampshire**  
KM1H (KQ2M,op) 4,932,396 3703 444 C  
W1PH 1,596,456 1556 342 B  
KB1T 181,802 342 177 C  
W1LQQ 70,356 286 82 C  
WG1C 1,725 25 23 C  
NX1H 816,660 2094 130 C 10  
K1PTF 138,000 575 80 B 10  
AE1D 828 23 12 B 10

**Rhode Island**  
K1VSJ 556,416 828 224 B  
K2MB 84,234 278 101 B  
N1LMM 81,324 251 108 C  
W1RFQ 51,324 188 91 C  
KA1ZCC (N/T) 4,725 63 25 B 10

**Vermont**  
WA1QGC 290,180 520 186 B  
K1HK 134,640 330 136 C  
WX1O 38,664 179 72 B

**WA1MNH 18,312 109 56 C**  
WA1ITZ 10,146 89 38 B  
N1GYP (N/T) 49,662 267 63 C 10  
W1KQ 38,319 241 53 C 10  
N1HEJ 37,908 162 78 B 10

**Western Massachusetts**  
WR1X 278,712 553 168 C  
KA1TRDZ 8,040 67 40 B  
W2SG 533,247 1468 121 C 15  
KA1S1PO (N/T) 56,490 289 70 B 10  
N1FUS (N/T) 48,411 229 53 B 10  
N1KFN (N/T) 14,319 111 43 A 10

**2**  
**Eastern New York**  
K2POF 625,044 1063 196 B  
KD2NE 336,278 569 197 C  
W2TF 274,896 552 166 B  
W2KHQ 239,618 412 156 B  
AA2GS 238,023 499 159 B  
K2RI 119,064 328 121 B  
WM2U 116,388 318 122 B  
N2AAK 107,814 302 119 C  
WB2MRX 107,804 294 122 C  
NA2M 49,440 206 80 C  
WM2Y 34,344 159 72 B  
WF2B 13,260 85 52 C  
NL2BZ 13,158 102 43 C  
K1ZM 6,534 66 33 C 160  
W2EVO 340,890 1033 110 C 15  
W2E 14,826 77 46 B 15  
N2MTG 27,384 163 56 B 10  
K2MRP 5,760 60 32 B 10

**NYC-Long Island**  
KE2NL 1,405,017 1459 321 C  
W2LQO (W2DKM,op) 395,784 717 184 B  
KD2BW 332,112 592 187 C  
KD2TT 294,813 549 179 B  
W2M0Y 199,080 420 158 C  
W2VZD 160,992 416 129 B  
K2K7T 94,518 267 118 B  
W1G0U 78,312 251 104 B  
W2BZH 4,406 227 66 B  
N2KYP 7,410 65 38 B  
N2KJX 7,380 60 41 C  
W2GKZ 2,178 33 22 B  
KD2RD 84,663 409 69 C 40  
WB2AMU 17,400 116 50 B 10  
KE2SU 2,997 37 27 B 40  
KA2RGI 17,892 142 42 B 20  
WB2CUZ 14,828 106 46 B 20  
W2GGE 4,725 63 25 C 20  
W2GCG 3,225 43 25 B 20  
W2S2YN 229,384 793 96 C 10  
KC2EY2 (N/T) 164,010 710 77 B 10  
WM2V 105,564 463 76 B 10  
KE2ZU 78,000 325 80 B 10  
KS2G 62,568 316 66 C 10  
W2KZE 59,052 266 74 C 10  
N2MBM 46,875 125 125 B 10  
N2MUM 12,012 77 52 B 10  
K2MFY 11,616 88 44 B 10  
N2K3Y 8,156 57 36 B 10  
KB2DY 4,320 48 30 B 10

**Northern New Jersey**  
N2LT 2,579,220 2492 345 C  
W1GD 1,691,760 1484 380 C  
AA2U 716,496 944 253 A  
W2VZUM 591,072 1048 188 C  
K3FRN 388,080 660 196 B  
WG3I 324,360 530 204 B  
W2GASM 112,752 348 108 B  
N2L83 105,203 285 122 C  
W2VZYA 93,366 273 114 C  
WJ2R 85,500 250 114 C  
WS2L 25,752 116 74 B  
K2SSX 25,461 123 69 B  
W2FCR 4,092 44 31 C 80  
W2A2SQ 9,072 44 36 A 20  
AA2EM 5,832 72 27 B 20  
WN2TU 32,832 192 57 B 15  
WV2X 23,814 162 49 B 15  
W2K3C 22,188 96 86 C 15  
W2ZDFH 20,536 696 97 B 10  
N2LDO (N/T) 56,721 259 73 B  
N2FDU 47,616 256 62 B 10

**Southern New Jersey**  
N2FRM (WM2H,op) 2,998,269 2637 379 C  
AA2GQ 1,556,100 1729 300 C  
N2MR 542,052 756 239 C  
K2TKB 480,924 732 219 B  
N3KR 416,250 825 222 C  
W2PAU 307,524 523 166 C  
KB2FL 201,585 445 151 C  
K2FL 198,720 480 138 C  
W2FGY 145,290 334 145 C  
WA3RHW 115,920 280 138 C  
W2VSO 91,776 238 128 B  
W2SDO 56,100 187 100 C  
W2ORA 54,300 181 100 B  
K2OSV 46,992 176 89 C  
W2CN 38,808 154 84 C  
W2KFO 26,092 161 54 C  
KA2YKN 23,016 137 56 B  
W2XN 22,644 111 57 B  
K2BZA 20,691 121 68 B  
W2FYSW 20,286 98 69 B  
W2EA 19,902 107 62 B  
N2AWC 9,072 72 42 C  
KD2AE 8,316 63 44 C  
KE2OP 6,450 50 43 B  
W2ADUE 2,304 32 24 C  
W2UL 720 24 10 B 20  
K2TDC (N/T) 20,163 143 47 B 10  
N2FY 5,400 50 36 B 10

**Western New York**  
W2HFF 2,876,949 2571 373 C  
WF2W 1,281,225 1553 275 C  
W2TZ 1,163,340 1405 276 C  
W2AUJ 880,860 1060 277 B  
WB2WPM 617,526 754 273 C

KD2YP	616,938	794	259	C
KB2SE	551,892	814	228	C
NA2A	459,380	896	220	C
KB2DE	427,818	631	226	C
KE2UV	315,000	600	175	C
W2FXA	194,250	370	175	C
K2TQC	187,500	250	250	B
N2AGO	170,694	327	174	C
KB3PW	169,302	406	139	C
W2QIP	144,024	353	136	C
KF2FA	123,876	372	111	B
WB2MWW	108,288	282	128	B
W2FR	91,371	229	133	C
WB2JFP	72,822	229	106	C
K2CF	62,217	223	93	C
WB2IVO	50,160	190	88	B
NA2O	49,413	181	91	B
W2OMV	36,135	165	73	B
W2FUI	17,550	117	50	B
KB2WN	13,800	100	46	B
W2VO	1,056	22	16	C
WA2AOG	5,445	55	33	80
WB2YQH	79,929	321	83	C
N2WK	223,716	724	103	C
WB2ABD	155,844	481	108	C
WB2GRI	76,734	261	98	C
W2RR (WA2AOG,op)	65,230	240	91	C
KB2NXX (N/T)	58,734	251	78	B
N2JNZ (N/T)	53,008	192	58	B
KA2FII	4,872	58	28	B
KA2RQG	2,862	53	18	B

**3**

**District of Columbia**

K3ZJ	526,350	1595	110	C
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**Delaware**

W3NX	342,258	562	203	C
W3CB	38,532	189	76	C
KF5LO	26,412	124	71	C

**Eastern Pennsylvania**

K3OO	3,868,368	3176	406	C
K2DOX	1,385,244	1673	276	C
K3OV	1,115,400	1300	286	B
NM3E	993,096	1061	312	B
KAD3SW	962,312	208	113	B
W3GK	397,200	662	200	C
K3TEJ	351,372	658	178	C
W3TW	292,050	590	165	A
NW3H	267,804	516	173	C
WA3RTY	240,570	495	162	C
W3NTD	239,085	495	161	C
AD3Z	237,495	365	223	C
W3EWW	222,372	426	174	C
K3OX	154,560	322	160	B
W3EHZ	91,530	270	113	B
W3QIR	70,512	208	113	B
NM3K	40,392	187	72	C
KA3LFC	23,598	138	57	B
WA3YOB	12,936	98	44	C
K3YD	5,301	57	31	A
WE3C	44,892	258	58	80
N3EC	13,254	94	47	C
K3ZPG	5,994	54	37	C
W3CEI	6,912	72	32	B
N3RW	129,060	478	90	15
K3CM	113,238	466	81	B
KA3TLE (N/T)	30,942	191	54	B
W3SSS	26,076	164	53	B

**Maryland-DC**

K3ZO	3,320,964	3181	348	C
W3UJ	741,750	1075	230	C
W3HVQ	294,372	481	204	C
W3GRF	271,500	500	181	C
WK3H	211,200	440	160	B
W3DP	162,285	349	155	B
W3DAD	148,482	339	146	B
W3EE	84,672	252	112	B
N3KJ	61,171	181	81	B
W3FOE	24,708	142	58	C
WA3FYZ	7,290	54	45	B
W3CDG	7,200	60	40	C
W3UT	6,405	61	35	C
W3ERN	1,026	19	18	B
W6AXX	241,395	847	95	10
W3IUU	78,921	333	79	B
WR3L	61,200	240	85	B
WB2ZRV (N/T)	55,902	242	77	B
WA3EEE	35,754	202	59	B
W3CPB	31,494	181	58	B
K3GEG (N/T)	30,561	167	61	B
KA3UIH (N/T)	27,048	161	58	B
W3GN	18,288	127	48	B
KA3UBJ (N/T)	3,750	50	25	B

**Western Pennsylvania**

K3TUP	1,141,422	1354	281	C
N3SVP	150,588	356	141	C
KA3SDP	34,580	128	90	C
W3WE	5,760	48	40	B
W3GH	15,141	103	49	80
W3U	7	7	20	
WB3EKO	138,072	523	88	15
WB3WV (N/T)	33,855	185	61	A
N3IUG (N/T)	15,729	107	49	B
KA3ZPG (N/T)	7,722	78	33	B

**4**

**Alabama**

WZ4F	1,391,679	1531	303	C
KB4BM	655,350	850	257	C
AA4UF	147,288	323	152	C
WG4F	96,876	276	117	C
KC4TEO	31,365	123	85	B
AC4LC	23,250	125	82	C
N4CG	7,440	80	31	C
KC4MBE	7,344	72	34	C
N4XSG	1,539	27	19	C
AA5F	65,520	273	80	10
NA4WN	48,384	224	72	10
KD4BHH	5,247	53	33	10

**Georgia**

AG4Q	367,971	709	173	C
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WB4VA	41,832	166	84	C
K3JT	315,594	534	197	C
K4JZ	210,216	461	152	C
KA4JB	208,173	431	161	B
N4LM	184,899	431	143	B
N4SBI	35,490	182	65	B
N4TNC	12,540	76	55	C
WA4JK	17,595	115	51	40
WA4HSN	24,750	150	55	20
KD4FNA (N/T)	64,605	295	73	B
KB4BCC (N/T)	7,992	72	37	B

**Kentucky**

KB4SRE	922,320	1260	244	C
WB4FOT	429,241	883	209	C
KM4TY	82,916	214	98	B
N4YUS	82,916	214	98	B
N4BOC	14,640	80	61	B
WA4QMQ	227,919	697	109	10
KC4DWT	162,960	560	97	C
KB4YJG	19,050	127	50	10

**North Carolina**

N4UH	890,838	1222	243	C
K4RZ	215,988	439	164	C
N4BNO	195,804	444	147	C
KC4MFR	162,009	383	141	B
KL7NLA	27,234	250	108	C
WA8WUJ4	6,840	80	38	B
WB4HFL (N/T)	33,807	191	59	10
WN4BBJ	4,914	63	26	10
WD5GLJ	2,160	36	20	10
W3FTG4	714	17	14	10

**Northern Florida**

K4XS	3,914,295	3389	385	C
K4VUD	889,004	1212	239	C
WA4WQ	302,984	523	142	B
K4JDV	155,832	344	151	B
WC2G	132,714	303	146	C
W2AW	103,416	278	124	B
AB4KL	94,536	303	104	B
KC4TIR (N/T)	90,828	348	87	10
KD4EDP (N/T)	4,872	56	29	10

**South Carolina**

K4YJL	1,270,152	1534	276	C
K4YOL	337,203	621	181	C
K4YU	14,100	100	47	C
KC4UH	12,672	88	48	C
N3KK	229,320	735	104	20
AB4YU	273,714	931	98	10
WA4YDD	79,590	379	70	10

**Southern Florida**

K4MF	335,775	605	185	C
WA4EMU	208,065	485	143	B
KA4JBC	139,944	343	136	C
WB4LD	137,598	323	142	B
WA4SVO	35,820	198	60	80
KC4HW	23,790	130	61	15
KO4QW	517,752	1598	108	C
KD4DIO (N/T)	35,112	209	56	10
W1EN2	23,373	159	49	10
W4WTO	4,290	55	26	10

**Tennessee**

K4XG	124,764	281	148	C
NK4WR	25,040	124	70	B
W4AY (WA4ZU,op)	8,424	78	36	B
AA4WX	1,518	23	22	B
KE2JO	106,344	422	84	20
W4OQG	13,482	107	42	20
WA6KU4	95,706	409	78	20
KS2X	78,189	389	67	10
KC4URW (N/T)	12,648	124	34	10
N4LJG (N/T)	10,578	86	41	10

**Virginia**

KA4RRU	1,158,066	1414	273	C
AA4XU	309,135	557	185	C
K4FPF	262,104	536	163	B
W4LMJ	235,107	453	173	C
KO4ER	204,120	420	162	B
WA4IF	161,172	363	148	C
K1KOB	99,360	276	120	C
WB4NFS	41,418	177	78	B
K4YT	29,484	126	78	B
WA4MKL	20,904	104	67	C
N4HB	18,297	107	57	C
KK4WQ	11,970	81	49	B
WB4KXB	12,546	95	44	80
WB4UBD	2,448	24	80	
N4PMQ	34,752	181	64	C
KJ4VG	12,255	95	43	40
W4TMN	810	18	15	40
WD8LYN	22,680	140	54	20
K3RV	866,502	2093	138	15
N4MO	311,355	935	111	C
N3JT	45,825	235	65	15
NA4VAN	67,524	331	88	C
NA4VH	61,344	284	72	10
NK4M	17,490	110	53	10
AB4XQ	14,061	109	43	10
KD4KCS	9,396	87	36	10
KD4CNR (N/T)	1,881	33	19	10
KC4WGP	1,800	30	20	10

**5**

**Arkansas**

W5RZ	20,130	110	61	C
WB5KQU	19,800	100	66	C
KSUR	3,822	49	26	180
KSRO	132,345	519	85	10

**Louisiana**

N8RR	562,548	724	259	C
K5UA	333,555	601	185	C
W5ZR	273,552	556	164	C
K5LA	52,440	184	95	A
W5VBL	13,992	88	53	C
W5WU (KZSD,op)	707,136	1856	127	10

**Mississippi**

WB5ASP	350,175	725	161	C
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WASOYU	88,560	240	123	C
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**New Mexico**

KSUID	362,181	667	181	A
KASBAT	18,762	106	59	B
AA5UR	12,960	96	45	C

**North Texas**

KA5W (KS1G,op)

KSRY	1,351,920	1310	344	B
NSAW	607,458	739	274	B
NNST	231,840	480	168	C
W5LWG	192,525	425	151	C
KASZBT	146,160	348	140	B
WSAE	135,630	303	137	C
WK5K	134,547	301	149	B
NSOJN	21,879	143	51	B
AA5IB	1,326	26	17	40
W5FO	140,154	497	94	20
NISM	122,688	426	96	10
W5UFI	359,658	1131	106	10
KF5OR	206,496	717	96	10
WBVX	105,633	363	97	10
KB5NYP	52,650	270	65	10

**Oklahoma**

WM4Z	350,520	635	184	A
KB5PCN (N/T)	10,578	86	41	10

**South Texas**

KE5FI	701,898	1788	131	C
KG5YA	491,400	700	234	C
W5AIX	349,770	655	178	B
K5JL	326,988	588	186	C
NSUJN	189,954	366	173	C
NSOHN	73,140	230	106	B
K5CSC	51,765	203	85	A
KASVVB	45,864	156	98	B
W5HRF	6,750	50	45	C
N5NMX	193,086	631	102	C
WB5CRG	108,768	41		

KZBC 137,808 319 144 B  
 WBPFF 135,552 353 128 C  
 WABDCB 54,372 197 92 C  
 KBEVC 8 64 41 B  
 NYVB 202,572 662 102 C

**Kansas**  
 WA0NJK 190,848 448 142 C  
 KF0MJ 83,022 274 101 C  
 K0BJ 35,574 154 77 C  
 W0WPL 35,511 133 89 B  
 W0SPF 27,816 152 61 C  
 K00E1 20,352 128 53 B  
 K0BJKW 11,985 85 47 B  
 N0BIW 7,308 58 42 B  
 KA0CKN 4,386 43 34 B  
 N0BS 4,002 46 29 C  
 N0MEH 912 19 16 A  
 N0KZO 12,636 117 36 C  
 K0BU 1,596 28 19 10

**Minnesota**  
 KE0L 1,273,284 1356 313 C  
 AC0W 808,008 1028 282 B  
 KE0J 185,757 433 143 B  
 K0G5V 177,237 419 141 C  
 W0ML 24,381 129 63 B  
 K0CB 23,988 87 87 B  
 KA0ZPP 21,465 135 53 C  
 W0PL 9,750 65 50 C  
 K0HGG 31,248 248 42 B 10

**Missouri**  
 K0HOF 306,612 612 167 B  
 W0JH 292,128 544 179 C  
 K0RFL 272,130 470 193 C  
 K0G5V 200,583 437 153 C  
 W0PKO 18,300 100 61 B  
 AJ0E 2,346 34 23 B  
 KA0P 14,715 109 45 C 80  
 KM0J 58,590 279 70 C 15  
 KC0AL 483,678 1378 117 C 10  
 W0JLC 211,968 736 96 C 10  
 W0G0V 44,100 245 60 B 10

**North Dakota**  
 KA0ZFX 850,308 1201 236 C  
 NZ0R 504,819 821 205 C  
 W0H0 48,816 226 72 B 10

**Nebraska**  
 AJ0I 36,000 150 80 B  
 N0MCD 24,840 120 69 B  
 WZ0L 24,120 120 67 B

**South Dakota**  
 KD0EE 532,014 742 239 C  
 W0ACT 172,920 446 131 C  
 KE0DV 123,228 326 128 B

**VE**

**New Brunswick**  
 VE1AUE 137,856 359 128 B  
 VE1CGF 44,840 186 80 C  
 VE1NH 36,720 180 68 C 20

**Newfoundland**  
 VO1MP 1,719,570 1849 310 C  
 VO1SF 144,102 658 73 B 15

**Prince Edward Island**  
 VY2SS 1,127,136 1592 236 B

**Quebec**  
 VE2AYU 679,508 1039 218 C  
 VE2DQU 122,451 343 119 B  
 VG2AWR (VE2AWR.op) 89,120 240 96 B  
 VE2UL 42,021 161 87 C  
 VE2HBE 30,240 144 70 C  
 VE2EOH 20,280 104 65 B  
 VE2EZ 40,869 239 57 C 15

**Ontario**  
 VE3EJ (K5ZD.op) 4,966,832 3552 422 C  
 VG3AT 1,513,440 2102 240 C  
 VE3ZD 370,557 591 209 C  
 VE3WSD 240,051 497 161 B  
 VE3RHF 238,545 465 171 B  
 VE3CWE 108,924 313 116 C  
 VE3WZ 58,491 201 97 B  
 VE3SIX 32,895 129 85 B  
 VE3TEE 26,480 126 70 B  
 VE3OBU 22,995 105 73 C  
 VE3BR 5,266 45 39 C  
 VE3RIK 4,725 63 25 B  
 VE3POS 7,038 69 34 B 80  
 VE3HG 13,680 120 38 B 20  
 VG2MRP/3 (VE2MRP.op) 61,908 268 77 C 15  
 VE3GRA 32,136 206 52 C 15  
 VE3UT 243,540 738 110 C 10  
 VE3PN 159,885 627 85 C 10  
 VE3WDJ 45,936 232 66 B 10  
 VE3HX 29,340 163 60 B 10  
 VE3FV 21,432 152 47 B 10  
 VE3W0R 7,344 72 34 B 10

**Manitoba**  
 VE4HO 84,132 228 123 B  
 VG4VV (VE4VV.op) 289,380 910 106 C 10

**Alberta**  
 VE6J 216,477 359 201 C  
 VE6SH 31,524 142 74 A  
 VE6GK 25,500 125 68 A  
 VE6DZ 22,178 132 56 A  
 VE6SF 16,236 123 44 C 10

**British Columbia**  
 VE7VQ 149,760 480 104 C  
 VE7XO 136,578 442 103 C  
 VE7JMN 96,036 302 106 C  
 VE7EL 70,959 217 109 C  
 VE7LET 17,885 131 45 B  
 VE7CYT 2,100 28 25 B

VE7FPT 3,096 43 24 C 40  
 VE7H 92,588 406 76 C 20  
 VE7EKS 1,716 44 13 A 10

**Northwest Territories**  
 VE8DR 247,360 620 133 B

**Yukon**  
 NL7TB/VY1 (NT) 864 32 9 B 10

**Single Operator Assisted**

**1**  
 K1TO 2,790,900 2215 420 C  
 K1IU 2,104,869 1741 403 C  
 KC1F 1,872,288 1773 352 C  
 W1NG 1,643,814 1314 417 C  
 AB1A 1,534,716 1437 356 C  
 K1ST 1,201,719 1009 397 C  
 NR1R 1,175,706 1333 294 C  
 KC1XM 1,146,240 1194 320 C  
 WA1HML 808,230 929 290 C  
 K1EF1 782,919 963 271 C  
 KC0RF 753,717 907 277 C  
 K1KP 740,232 828 296 C  
 K1WJL 706,875 729 325 C  
 AA2Z 675,378 758 297 C  
 K1HMO 686,210 838 265 C  
 K2TE 472,824 597 264 C  
 N1TZ 458,568 579 264 C  
 K1SF 414,720 576 240 C  
 K1TN 404,928 444 304 C  
 KB1H 289,737 441 219 C  
 WS1E 274,116 431 212 B  
 KD1BM 204,570 375 182 B  
 WA1W 204,000 400 170 C  
 N0J1 148,800 310 180 B  
 N4DW 144,720 360 134 C  
 N4DW 125,829 341 123 C  
 KL7DN/1 121,365 279 145 C  
 KD1GG 110,922 278 133 C  
 W1FJ 102,528 267 128 C  
 WA1G 101,439 289 117 C  
 K1KNO 89,748 277 108 C  
 A1H 76,356 202 126 C  
 W1BK 56,304 184 102 C  
 WA1FCN 52,323 163 107 B  
 N0J1K 48,306 194 83 C  
 K1CC 46,200 200 77 C  
 ME1F 22,152 104 71 C  
 KY1K 20,703 103 67 C  
 W1RM 20,223 107 63 C  
 WR1B 960 20 16 C

**2**  
 WB2K 2,030,751 1647 411 C  
 WB2P 1,879,227 1467 427 C  
 NM2L 1,471,080 1495 328 C  
 KA2AJT 1,310,040 1213 360 C  
 KY4J 1,219,881 1008 403 C  
 N2WV 1,117,494 1069 343 C  
 KF2U 975,126 982 331 C  
 N2G0S 838,188 796 351 C  
 KQ2O 791,403 1051 251 C  
 KE2VB 613,827 849 241 C  
 WU3A 606,840 778 260 C  
 K2EK 532,680 772 230 C  
 K2SB 458,973 573 267 C  
 379,476 508 249 C  
 NB2DM 369,576 531 232 C  
 W2HJ 333,792 508 183 C  
 WR2G 300,997 489 201 C  
 WB2KG 249,900 425 196 C  
 N2BYU 229,614 539 142 C  
 WB2WBU 222,222 407 182 B  
 KB2NU 216,027 361 189 C  
 WY2L 185,760 360 172 B  
 K2PF 168,156 346 162 C  
 WE2T 161,616 364 148 C  
 WF2Y 115,776 268 144 C  
 N1JM 107,271 261 137 B  
 N2ZR 105,084 278 126 C  
 N2ZT 78,480 240 109 C  
 KE2VX 64,980 228 95 C  
 NG2P 62,964 159 132 C  
 WY2X 33,864 168 88 B  
 KB2NOC 28,152 138 69 B  
 N2KJM 3,534 38 31 C  
 K2DB 585 15 13 C

**3**  
 K3WWW 3,178,197 2349 451 C  
 K3PKF 2,828,414 2151 438 C  
 N3AD 2,650,455 2031 435 C  
 N3WY 1,706,400 1589 360 C  
 N3W3 1,582,017 1511 349 C  
 AA3B 1,555,254 1494 347 C  
 W3MA 1,230,840 1315 312 C  
 W3VF 1,141,419 1129 337 C  
 K3ND 1,032,744 1163 296 C  
 AD3J 900,528 1028 292 C  
 N3KU 690,690 1001 230 C  
 W3QOS 563,095 725 255 C  
 N3JN 483,990 730 221 C  
 N3JN 399,840 595 224 C  
 N3H 353,493 543 217 C  
 W3KV 317,070 542 195 C  
 K3RL 307,008 416 246 C  
 N3SP 299,880 478 210 C  
 W3GNO 264,438 531 166 C  
 WB3CIV 240,681 511 157 C  
 N3HW 181,056 656 92 C  
 KD3TB 160,776 348 154 C  
 KA3YRG 124,122 302 137 B  
 W3XU 119,691 429 93 C  
 N3HH 95,499 243 131 B

**4**  
 N4WWW 2,850,408 2684 354 C  
 N1GL4 2,577,744 2106 408 C  
 KG4W 1,476,080 1348 365 C  
 NK4J 1,199,205 1215 329 C  
 KX4S 703,566 909 258 C  
 NQ1W 460,512 656 234 C  
 KX3Q 158,996 267 196 C  
 W4HJ 144,298 334 144 C  
 WA4FHQ 81,450 181 150 C  
 NS4R 77,112 238 108 C  
 KM4YY 61,359 181 113 C

**5**  
 N5RZ 2,310,147 2157 357 C  
 K5MR 1,704,420 2226 255 C  
 K5LP 811,104 994 272 C  
 W5ASP 101,010 370 91 C  
 KD5GD 89,244 268 111 C  
 WB5SSD 60,270 245 82 B

**6**  
 N6CCL 550,179 639 287 C  
 N6TV 535,788 902 196 C  
 K6V 417,450 575 242 C  
 KF6A 350,676 612 191 C  
 K6SG 341,040 560 203 C  
 KV6H 297,960 602 165 C  
 WB6IP 267,072 428 206 C  
 K6YB 210,930 445 158 C  
 N6P 205,155 485 141 C  
 K6FO 192,720 292 220 C  
 N6JV 72,281 217 111 C  
 N6OU 64,280 204 105 C  
 W6LLY 45,594 149 102 C  
 WA6NOL 45,050 150 89 C  
 K6PJ 40,450 109 82 C  
 N6T 32,046 109 96 C  
 K6MC 22,348 102 73 C  
 W6AUE 19,656 91 72 C  
 W6HXW 18,216 88 69 C  
 K6PD 15,744 82 64 C  
 W6OAT 10,979 69 53 C  
 WZ9J 3,795 55 23 B

**7**  
 NZ7E (K3V.op) 4,050,954 3359 402 C  
 WA7LW 570,021 757 251 C  
 KY7M 241,800 403 200 C  
 AA7KE 211,140 410 170 C  
 N7KN 15,510 114 47 B 15  
 W1HUE 8,109 53 51 C  
 KG7EM 2,139 31 23 C

**8**  
 K8CX 1,975,506 1634 403 C  
 N8ATR 1,919,952 1608 398 C  
 K8SS 880,092 1044 281 C  
 N8BD 742,482 1002 247 C  
 N8JQX 708,624 888 286 C  
 K8YSE 531,846 938 189 C  
 K8OOL 517,296 829 208 C  
 K8MR 511,560 696 245 C  
 K8TMM 335,820 590 193 C  
 WD8IXE 179,520 352 170 C  
 N8HTT 158,817 317 167 C  
 K8PYD 108,288 282 128 C

**9**  
 W9OP 730,989 849 287 C  
 WY9V 649,935 715 303 C  
 WD9GIG 406,408 476 286 C  
 W9NO 356,475 485 245 C  
 K9OSH 244,800 400 200 C  
 WB9CWC 170,289 371 153 B  
 N9XK 133,434 353 126 B  
 W9TA 88,788 302 98 B  
 WD9GGY 19,344 124 52 B

**0**  
 W0SOK 403,062 626 229 C  
 KG0SE 363,480 520 233 C  
 W0BYJ 296,620 553 180 C  
 AA0Y 119,232 288 138 C  
 K0UH 92,907 333 93 C  
 K1ER 49,749 161 103 C  
 W0MG 7,938 54 49 C  
 KA0DPV 2,730 35 26 C

**VE**  
 VE7OR 131,445 345 127 B  
 VE7IRA 92,415 305 101 C  
 VE3XO 42,240 220 64 C

N2SS (+W2GMA) 991,896 1117 296 C  
 K2AZ (+WABOQA) 775,656 972 266 C  
 K2JF (+K2OWE,W2GSN) 756,891 873 289 C  
 WW2Y (+N2NU) 608,160 724 280 C

**3**  
 K3LR (+W3RG) 4,388,904 3126 468 C  
 W3BGN (+K2EP,W2REH) 3,854,808 2894 444 C  
 W3GG (KA3VYN,N3FBN,ops) 2,474,472 2266 364 C  
 K3NZ (+KA3MND,KU3X) 1,300,740 1330 326 C  
 K3VO (K3YDX,KA3S SCY,YFR,KD3YU, N3CBL,N3GO,W3P,WASTID,W3GR, N4UFX,W6VGL,ops) 1,219,880 1255 324 C  
 AK3Z (+K2PH) 1,126,026 1034 363 C  
 K3DI (+N3JOG,WD4IEH) 917,403 977 313 C  
 W3DOS (K3TW,W4HU,WBAJ,N8MCL, ops) 852,909 1081 263 C  
 KA3VEL (+KA3S DSX,PA,N3JRX) 586,872 741 264 C  
 K3EKA (WA3FYZ,W3ES,KPFE, C3XTR,ops) 539,784 882 204 C  
 WA3SQU (N3RWM,W3DIT,ops) 187,254 618 101 C 10

**4**  
 N4M (+K4BAJ,K4GID) 4,412,880 4055 432 C  
 W4AQL (+K4DEGH,W4D4WN,N7FYT N9HZO,K0DI,ops) 1,524,588 1508 337 C  
 WA4HIW (+K4CQWF) 224,451 459 163 C  
 KD4GLC (+W4ZDU) 19,404 132 49 B

**5**  
 W5B2U (+N2BOW) 2,493,785 2285 367 C  
 AH9B/W5 (+AD1S) 1,810,710 2046 295 C  
 N5DO (+K5YV,N5SSWD) 734,712 988 253 C  
 AA5ZX (+W5EUC) 600,456 798 254 C  
 W0SY (+K5LBU,K5FNU,N5ZV) 482,856 682 236 C  
 K5JC (+K5PA) 67,035 205 109 B

**6**  
 AB6HH (+N6YKL,W6OUL,W7CB) 1,210,302 1446 279 C  
 WA6IE (+W2KA,K4R8K,N6GC, W6s KFV,TKF) 941,228 1198 262 B  
 N6KN (+N6s RVC,WLY,ZAY) 526,344 964 182 C  
 K6NW (+K6H) 480,912 688 233 B  
 N6IR (+K6ELX) 335,454 686 163 C  
 KE6WL (+K6NT) 288,288 528 182 C  
 WD6DJY (K0Bs AAO,ABM,BBX, KF6ML,K6R8,W6BLMN,ops) 203,592 499 136 C

**7**  
 WA6NKO (+KB7OOX,N7s OKL,OKV, W0N) 253,449 567 149 C  
 KG7DK (+N7SBW,W7OXIM) 84,735 269 105 C

**8**  
 W8K (+K8YSE,W8s GMH,JGU,XD, W8SBN,W8VFA) 2,887,680 2560 376 C  
 K8LX (+K8GM,N8EA,W8ZDT) 2,332,386 2247 346 C  
 K8AZ (+K8BLT,N8s AA,ARD,N8L, W8KIC,W8TC) 2,237,193 1869 399 C  
 N8MMB (+K8RFB,N8s OZL,SKZ) 432,600 700 206 C  
 WB8MTT (+K8CBMR,W8BMMW, W8PUP) 404,352 648 208 C  
 K8MFRG (+N8NP) 380,427 733 173 C

**9**  
 KD9ST (+K8BSQS) 1,136,178 1343 282 C  
 KE9UR (+K8WRL,K8W3C,N8s EAX, NFF,OGP,W9V9) 112,776 296 127 B

**0**  
 W0CP (+WY0J) 2,270,727 2273 333 C  
 N0P (+K8JSH,N8s AMI,JA5,N8O, W8FLS,W08GV,W0V,W8R8) 1,972,215 2087 315 C  
 K0B (AF9T,K0M,K0AJV,K0B,K0S,T, N0BKL,W0M,ops) 1,777,470 1790 331 C  
 N0AT (+K80GII) 1,620,486 1429 378 C  
 N0BNG (+AA0s AJ,AW,BY,KA0s BLM,C0,LAH,K0B0s DBO,HGG,JDX, JXS,OLC) 1,587,590 1746 305 C  
 W0SSWM (+N3SL,AB5K) 1,546,776 1674 308 C  
 KF0GV (+N0LIW) 1,158,948 1323 292 C

**Two Transmitter**  
 N2NT (+K2BU,KR2J,KY2T,KZ2S,NF2L, WZ2Q,WY2Z,K3UJA) 8,688,805 5401 535 C  
 N3RS (+K3ZA,N3RF,NW3E) 8,486,798 5354 529 C  
 K1DG (+K1XX,WZ1R) 8,390,367 5307 527 C  
 AA6TT (+AA5B,AB5DX,K5TA,N5s FA, SDO,K7UP,N7KA,AI9X,N80X) 7,665,075 5225 489 C  
 K59K (+WW1M,K9s CJK,GS,N8AU, N89C,N8H,NO9F,W6V9) 6,914,916 4467 516 C  
 K5NA (+K2UR,KU2Q,N2s EK,MCI, NG2X,NX2C,W5B2) 6,870,024 4438 516 C  
 W2GD (+K2NL,KE2H,KF2ZH,NR2H, WA2s MKM,VUY) 6,105,396 4022 508 C  
 K4VX0 (+AA8AK,K9Z0,KD0Q,N9JF, W9W,AA8CR,N5BZ) 6,070,788 4428 457 C  
 K8CC (+AA8F,KE8OC,N8s COA,JEC, W8WD) 4,346,424 3417 424 C  
 W6QHS (+N3AHA,WN4KN,K6TMB, KK6OM,N6s EK,TW,WZ6,W8ZZ) 4,288,202 3611 394 C  
 W6GO (+AA6s LB,WJ,K6HHD,N86G, N9V0) 3,911,085 3219 405 C  
 N1TT (+K6GLD) 3,695,760 3549 348 C  
 N3NQ (K3s ATO,NW,ops) 3,455,340 2660 433 C  
 K2PS (+N2s KL,MM) 3,366,864 2724 412 C  
 W3AP (K3SF,N3E3,NK3Z,N3NL,N3TV, N23G,W3UM,ops) 3,284,226 2619 418 C  
 K9UWA (NW1N,KE9AG,KF9DE,KR9U, N8s BW,MKC,W8HLY,W9DGA,ops) 3,253,938 2723 402 C  
 K3ANS (+N2LAI,K3K,N3ED,NJ3L, WJ3M) 3,263,400 2550 420 C  
 NX3A (+K3WLU,KC3P,J,KW3Z,NW3Y, WJ3Y) 3,185,952 2464 431 C  
 K3II (+K3s IE,NL,NA3K) 3,007,530 2370 423 C  
 WT3Q (+AB2E,KA3PLS,N3BNA,NU3Y, W3X) 2,736,216 2136 427 C  
 N1AU (+AK1J,K1BG,W1FJ,WA1TTV, W1CD,W1MK) 2,255,811 1933 389 C  
 K2TD (+W62s F,YO,K3GYS,WFFC) 1,940,004 1562 414 C  
 W6EEN (+K6X) 842,928 1033 272 C  
 VG3GCB (VE3s ADS,CLD,DPI,EF,ELL, FJB,FXL,G5J,GWML,LIC,MKX,NDA, OBG,OYM,PKA,PKM,PZV,PZX,RBL, RBP,RRD,SNN,SOT,THR,TUJ,YBH, ops) 708,867 997 237 C  
 W2UB (+K2Bs GLI,ISO,JON,LIF,MNV, N2ZN,W2S,CBL,LGZ) 613,815 755 271 C  
 N9LUO (+N9LDX) 330,687 609 181 B

**Unlimited**  
 W3LPL (+KA1GD,WB2EK,K3s NA, RA,SO,K3EK,KF3P,N3GB,N3DA, W3EKT,W3RC,W8BMAZ) 12,412,320 6805 608 C  
 K2TR (+KY1H,N1CC,NJ1F,WA1ZAM, K2s ONP,PD,WR,XA,N2s DU,MG, N0ZD,W2AG2F,WB2EAP,WA4VKD) 10,068,597 5889 591 C  
 NS4U (NA4M,ABSX,KLSZU,K4SWS, K5NE,KM5X,KY5N,NS0AQ,NM5M, W5KZ,W5Bs N,VZL,KR9F,WX0B,ops) 9,329,688 5514 564 C  
 W4MYA (+K1GV,WB3D,K4BAM, K04D,KC4UR,KD4HEL,K4GM,KN4XJ, K04s MF,PN,N4HEJ,WA4s DAI,HMX, PGM,W84GVZ,WK4Y,WU4G) 7,327,704 4856 503 C  
 W8AH (+AA9D,K9PN,KA9FOX, N8KAU,W89TY,W8NP,K0s FV,F,T, N8BSH,W8JC) 7,133,049 4599 517 C  
 KY3N (+N3ADL,WB3s FIZ,HAL,LFZ) 5,081,664 3781 448 C  
 AA1K (+K3WJV,KD3UC,N3FDL,N8NA) 3,942,198 2973 442 C  
 KN8Z (+W8BYR,WX8T) 1,629,720 1509 360 C  
 NX1G (+KA1ZRR) 306,342 558 183 C

**DX Phone**  
**Single Operator**  
**Africa**  
 CE9M Islands  
 EA8DM 376,134 902 139 C  
 EA8TH 13,857 149 31 C 80  
 EA8BUC (W2KN,ops) 3,795 55 23 B 80  
 EA8LS 127,041 799 53 C 15

**Ceuta and Melilla**  
 EA9UK 342,084 1966 58 B 15

**Central African Republic**  
 TL8IM 15,162 133 38 C 20

**Burkina Faso**  
 XT2BW 197,964 611 108 B

**Zimbabwe**  
 Z21HS 4,092 44 31 B

**Nigeria**  
 N9MDW/5N6 33,174 194 57 B





SM8DZH	8,901	69	43	C
SM8FM	912	19	16	B
SM7DXQ	10,710	102	35	20
SM7TV	6,561	81	27	B
SM2JEB	33,396	242	46	15
SM7HSP	936	24	13	C
SM6BJ	228,960	1272	60	10
SM4RRD	18,354	181	38	B
SM5DAC	14,586	143	34	A
SM4HEJ	11,855	105	37	B
SM6HRR	9,720	108	30	B

<b>Poland</b>				
SP1EOI	198,144	516	128	B
SP1PBW	118,440	420	94	C
SP6ECA	99,600	323	100	A
SP3SLA	67,032	266	84	B
SP6KFK	62,475	245	85	C
SP9MQH	58,872	223	88	C
SP6JZG	46,431	201	77	B
SP6DVP	30,888	156	66	B
SP7FQJ	30,051	159	63	B
SP9PRO	26,550	150	59	C
SP1JXC	24,900	128	65	B
SP5KEK	20,886	136	51	C
SP5CHJ	17,202	122	47	B
SP6DAY	16,805	135	41	B
SP1MHV	10,152	72	47	B
SP3GRQ	9,600	80	40	B
SP5GKN	9,240	77	40	B
SP9AGS	7,200	80	30	B
SP8FJG	6,480	60	36	B
SP9LDP	3,900	65	20	B
SP3GXU	546	14	13	B
SP4PBI (SP4JSP,op)	15,678	134	39	C
SP3MYS	6,525	75	29	B
SP2AHD	5,472	75	24	B
SP6DWB	2,679	47	19	B
SP6PCF	1,152	32	12	B
SP2HCZ	594	18	11	B
SP5CFA	396	12	11	B
SP9LJD	78,000	500	52	15
SP3DIK	14,904	138	36	15
SP5AUB	10,098	102	33	15
SP8TQ	7,347	79	31	15
SP1BLE	4,536	63	24	15
SP4LXE	2,280	40	19	15
SP2JKC	193,590	1195	54	10
SP7ZET (SP7NIT,op)	159,123	899	59	10
SP3KVE	93,636	612	51	10
SP4GFG	34,914	253	46	10
SP9EML	25,974	222	39	10
SP7MUZ	23,400	195	40	10
SP7FDV	19,758	178	37	10
SP9BRP	12,369	133	31	10
SP9RVD	11,445	109	35	10
SP3JHY	8,064	96	28	10
SP2FOV	6,888	82	28	10
SP5NHQ	3,726	85	18	10
SP7LHX	1,215	27	15	10

<b>Guatemala</b>				
TG9AJR	873,642	1342	217	B
TG9GI	357,000	850	140	A
<b>Costa Rica</b>				
T11C (N6KT,op)	9,619,584	9778	328	C
<b>Antigua and Barbuda</b>				
V2/G6QQ	191,316	596	107	B
<b>St Christopher and Nevis</b>				
V47TU (WB7RFA,op)	408,812	2338	58	C
<b>Turks and Caicos Islands</b>				
VP5C (KD6WV,op)	8,312,816	8346	332	C
<b>Bermuda</b>				
WB4IUX/V9P	1,216,656	1904	213	C
<b>Mexico</b>				
XE1IA6RX	17,271	101	57	B
<b>El Salvador</b>				
YS4WD4FN	37,281	289	43	B
<b>Cayman Islands</b>				
ZF2ND	255,234	1442	59	C

<b>Kaliningrad</b>				
UA2FFD	702	18	13	B
<b>European Russian RSFSR</b>				
UA3QJC	8,658	78	37	C
RZ6LG	56,214	347	54	C
UA4WAD	50,985	309	55	C
UV8LAP	21,400	174	41	B
RA3TFU	3,120	52	20	B
UV3DRU	1,734	34	17	B
RA4PO	116,556	883	44	15
UA6XT	35,547	289	41	C
UV3DD	741	19	13	A
UA6ED	300	10	10	C

<b>Ukraine</b>				
UY8P	465,594	1063	146	C
UT6UBN	13,716	127	36	B
UB5VAP	11,280	94	40	A
UB2JZ	6,120	68	30	C
UB5CCP	1,995	35	19	B
UB3JWW	8,988	107	28	C
RY2U (UT4U,op)	165,402	1021	54	C
UB5VDA	9,831	113	29	A
UB4JLF	5,913	73	27	B

<b>Belarus</b>				
UC2OG	73,206	294	83	C
UC2AB	83,400	556	50	B
UC2WEV	12,006	138	29	B

<b>Moldova</b>				
UO5ON	59,001	277	71	C

<b>Latvia</b>				
YL2PJ	10,974	118	31	C

<b>Romania</b>				
YO9HP	625,959	1329	157	C
YO9JN	195,624	572	114	B
YO2LN	87,495	307	95	B
YO9HT	17,472	104	56	C

<b>Yugoslavia</b>				
YU7AV	1,800,015	2765	217	C
YU1AAV	27,720	154	60	B
YU3CU	11,400	76	50	B
YU1EXY	34,254	346	33	C
YU1BD	378,252	2212	57	C
YU5HR	346,968	1896	81	C
YU3SW	284,040	1578	80	15
YU3SA	219,840	1145	64	15
4N4J	94,923	587	53	B
YU3AA	521,265	2945	59	C
4N3EK (YU3RO,op)	405,684	2292	59	C
4N2V	405,153	2289	59	C
4N2Y (YT2LG,op)	394,264	2286	58	C
YU3A (YZ3EA,op)	374,976	2232	56	C
YU3HP	90,320	579	52	C
YU7SF	24,168	212	36	C
YU3MJ	14,592	152	32	B
YU3HM	12,753	109	39	A

YU7KM	9,744	116	28	B
YU7MM	5,220	58	30	B
<b>Malta</b>				
9H1DE	227,622	643	118	B

**North America**

<b>Martinique</b>				
FM5CD	3,197,880	3948	270	C

<b>Dominican Republic</b>				
H3AMF	161,700	539	100	B

<b>Dominica</b>				
J7D (VE5RA,op)	4,505,631	5023	299	B

<b>Alaska</b>				
NL7VJ	27,300	140	65	B
KL7RA	55,388	362	51	C
AL7CQ	586,401	3313	59	C

<b>Virgin Islands</b>				
K1DQV/KP2	4,665,000	5000	311	C
NP2I	1,330,182	2737	162	B
KV4FZ	16,524	153	36	C

<b>Puerto Rico</b>				
KP4WZ7B	345,078	1009	114	A
SP5GKN	563,580	3131	60	B

<b>St Maarten, Saba, St Eustatius</b>				
PJ8CW	136,488	517	88	B

<b>Guatemala</b>				
TG9AJR	873,642	1342	217	B
TG9GI	357,000	850	140	A

<b>Costa Rica</b>				
T11C (N6KT,op)	9,619,584	9778	328	C

<b>Antigua and Barbuda</b>				
V2/G6QQ	191,316	596	107	B

<b>St Christopher and Nevis</b>				
V47TU (WB7RFA,op)	408,812	2338	58	C

<b>Turks and Caicos Islands</b>				
VP5C (KD6WV,op)	8,312,816	8346	332	C

<b>Bermuda</b>				
WB4IUX/V9P	1,216,656	1904	213	C

<b>Mexico</b>				
XE1IA6RX	17,271	101	57	B

<b>El Salvador</b>				
YS4WD4FN	37,281	289	43	B

<b>Cayman Islands</b>				
ZF2ND	255,234	1442	59	C

**Oceania**

<b>Philippines</b>				
KG6U/HDU1	72,576	288	84	B
DU1EIU	82,368	528	52	C
DX9CDO (DU9AXJ,op)	79,380	540	49	C

<b>New Caledonia</b>				
FK6FA	296,094	809	122	B

<b>Mariana Is</b>				
KH6JE1BQE	7,743	89	29	B

<b>Guam</b>				
KH2EI	5,976	83	24	B

<b>Hawaiian Islands</b>				
WR6R/KH6	4,595,904	6056	303	C
K6GSS/KH6	3,829,230	4710	271	C
NH6T	542,412	1159	156	A
NH6WZ	209,865	823	85	C
NH6WZ	6,765	55	41	B
KH6FKG	221,781	1253	59	C
KH6GMP	149,283	873	57	B

<b>Papua New Guinea</b>				
P29DX	2,003,100	3035	220	C

<b>Marshall Islands</b>				
V73CT	1,019,076	2084	163	B

<b>Australia</b>				
VK2AYK	495,582	1094	151	C
VK5GN	275,940	630	146	C
WK1PS	102,900	343	100	C
VK3ZDM	13,716	127	36	C
VK2GAH	239,772	1378	58	C
VK2ARJ	219,240	1260	58	C
VK6TM	131,040	780	56	B

<b>Indonesia</b>				
YB2ARO	266,544	617	144	B
YB2UDH	8,160	80	34	B

<b>South Cook Is</b>				
ZK1XN (VE7HA,op)	83,220	365	76	C

<b>New Zealand</b>				
ZL4NF	193,914	567	114	C
ZL2AH	152,028	492	103	B
ZL2LOW	126,498	727	58	C
ZL1IM	20,043	131	51	B
ZL2AFY	3,813	41	31	B

<b>Rotuma</b>				
3DZDA	28,296	262	36	B

**South America**

<b>Chile</b>				
CE5NG	45,018	183	82	C

CE6PCM	96,360	584	55	B
CE3NR	171,342	1002	57	C
CE3JUX	54,432	378	48	B

<b>Bolivia</b>				
CP1FF	413,829	1053	131	B

<b>Ecuador</b>				
HC1OT	3,771,348	4726	286	C
HC1WC	91,314	534	57	C

<b>Colombia</b>				
HK3JHJ	2,871,330	3955	242	C
HJ4QIM	108,240	656	55	B
HK3MRU	63,072	438	48	10
HK4OTF	4,608	64	24	B

<b>Argentina</b>				
LO3F (LU6FAZ,op)	1,105,596	2118	174	C
LU5FIC	311,553	1049	99	C
LU5FDZ	12,942	121	34	C
LU6FN	10,980	120	30	C
LU6ETB	659,349	3603	61	C
LU2DZS	95,718	602	53	C

<b>Peru</b>				
OA4ZV	1,049,625	1555	225	B
OA4ANR	343,536	842	136	C

<b>Netherlands Antilles</b>				
PJ9M (OH6RM,op)	334,024	4712	59	C
PJ8JT (W1BIH,op)	326,565	1845	59	C
PJ9Y	203,727	1151	59	C

<b>Brazil</b>				
PY2NY	294,393	811	121	B
PY2BPY	62,040	440	47	C
PR8R	3,381	49	23	C
PY2PD	840	20	14	C
PT7WA	57,876	371	52	C
PY7NK	35,400	236	50	C
P				