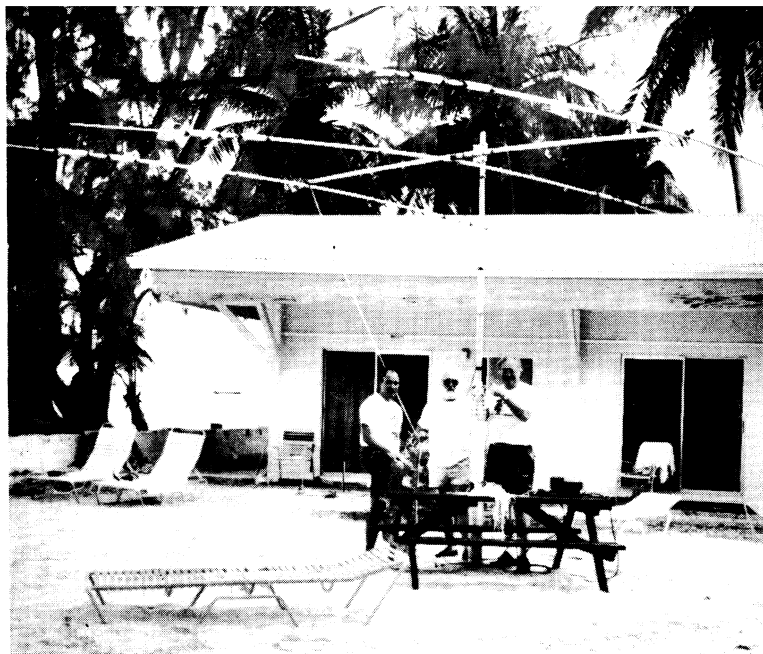


Results, 1990 ARRL International DX Contest

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager



The record-setting Multi-Single team at ZF2KE raises the antenna. (l-r) Ray, K9RS; Frank, K9HMB; and John, K9DX.

The 1990 ARRL International DX Contest was a hodgepodge of mixed propagation conditions. Spirits were high as contesters around the world anxiously awaited the green flag at 0000Z February 17 for CW and March 3 for phone. After last year's superb conditions, everyone was ready for a record-breaking 48-hour CW run to start things off, but Murphy reared his head. A geomagnetic storm on Friday raised the K index to 6, which made for poor propagation in the beginning of the CW contest. As the storm subsided, however, propagation returned to near-normal levels, especially on the second day. During the first hour of the CW contest, there were probably more frantic contesters listening to the WWV bulletins—hoping things would improve—than there were logging QSOs on the high bands. This was a time for heading to the low bands. ZS6BCR claims, "There was an amazing amount of activity on 80 meters the first day! There were some of the biggest pileups I've ever had." If it had been a mere 24-hour contest, it would have been a disaster. W3VT exclaimed, "Thank goodness for the second day!" K3NCO wondered, "Who let the air out of the ionosphere?"

During the phone weekend, conditions were dramatically better. K2MFY notes, "The conditions on 10 meters were fantastic, much better than on the CW weekend!" WAØQOA discovered that "the phone contest was

great!" The high bands stayed wide open for most of the contest. WD9FTZ found that "10 and 15 meters were hot throughout the contest, with 10 meters staying open well past 0300Z both days!" The low bands didn't seem too shabby either. WQ2M claims, "There was more activity than usual this year on 40 meters. I had good run rates most hours when the band was open."

Computer-assisted contesting and computer disk-file entries are the wave of the future and are here now! KR2Q proclaims, "God bless K1EA!" W3FTG swears, "Contesting software for logging and duping is the only way to go, what a breeze!" K7RI says, "Having good computer software sure makes it a lot more fun and less fatiguing. Now when the contest is over, it's over!"

The winners and the "big-gun stations" are not the only faction of the contest. Many people in the contest feel their stations are not good enough to compete for the top honors or their time to operate is limited because of work, family and other obligations. These stations make up the majority of the participants. Without being able to work these stations, the winners would have lower scores. Our hats are off to you folks—thanks for making the contest so big and so much fun; it couldn't be done without you.

In almost every contest, personal goals and records are set without any of the glory from plaques, certificates or being listed in the top-ten boxes. K4BNC explains, "Few people enter the contest expecting to win. We enter for our own fun. Usually, I try to see how many different countries I can work without calling CQ, but this time I decided to add an extra challenge: Can a single operator with an average station work DXCC in one weekend? With only 1½ hours to go, I put number 99 into my log." CN8FC broke his personal record by working six different Montana and North Dakota stations. JM1LRQ boasts, "I worked all states and made 1000 QSOs on 10 meters for the first time." HI8LUZ says, "Thanks to the contest, I was able to complete my Worked All

States on 10 and 15 meters." NL7GP claims, "This year's contest was a new personal best for me."

If you're using IBM-compatible software, such as *CT* and others for contest logging, send your entries to ARRL HQ on disk. You don't even have to send in a printout of the file for backup; just the disk file and a summary sheet. Don't forget to include soapbox comments and some good photos, too. Disk entries are easier for you and they save the ARRL Contest Branch many man-hours of log-processing time. If you have a high-scoring entry and use a computer, you will be asked to submit a disk-file entry. If you're not sure whether your software meets the ARRL Suggested File Format, get in touch with the Contest Branch at League HQ and we will be glad to answer any question that you may have.

3345 logs were received for the 1990 contest. Of these, just over 200 were computer-disk log entries. Special thanks to the Frankford Radio Club for submitting all its entries on disk this year and accounting for the majority of the disk entries received. Logs received from DX stations totaled 708 CW and 744 phone; 733 CW and 954 phone logs were received from W and VE participants. Special thanks to the 206 ops who submitted checklogs.

W/VE Highlights

John, K1AR, scored 3.2 million points to win the first-place CW plaque. Dan, K1TO, scored 2.5 meg to edge out W1KM, with 2.4 meg, for the second-place spot.

K1RU amassed 3.4 million points from CT to secure first-place phone. N6BV/1 was close behind with 3.3 meg for a strong second-place finish, slipping by K3OO in third with 3.2 meg.

W1PH won a double-header, taking the W/VE Low-Power plaque on both modes. Kurt racked up 1.1 meg on each mode to secure the top spots. On CW, WD4AHZ finished second with 729k points and NT5G was third with 716k. On phone, K8NZ



Jim, hard at work at VP5M, amassed over 1.6M points in the CW contest.

Top Ten—W/VE CW

Call	Score	160	80	40	20	15	10
K1AR	3,258,528	32/27	225/66	468/72	784/88	623/80	479/83
K1TO	2,544,480	32/23	186/50	290/62	928/91	556/76	288/70
W1KM	2,422,464	13/11	129/50	431/62	718/75	491/73	512/81
N2LT	2,389,803	25/18	115/49	398/77	659/80	497/72	419/81
K1CC	2,351,916	33/26	133/55	418/65	668/82	545/71	345/67
KC1F	2,348,865	35/26	100/48	418/74	616/78	524/78	362/77
K1RU	2,227,104	26/22	75/404	449/68	583/76	562/73	414/73
N6BV/1	2,147,397	19/17	106/45	396/65	596/74	529/73	405/75
N5RZ	2,114,604	17/16	82/41	342/70	505/88	407/84	459/90
K3ZO	2,056,752	28/18	209/60	492/74	419/63	338/75	377/78

Top Ten—W/VE Phone

Call	Score	160	80	40	20	15	10
K1RU	3,436,614	11/10	60/41	83/55	667/100	886/104	1060/104
N6BV/1	3,358,080	12/11	54/39	93/52	653/109	700/106	1128/107
K3OO	3,269,025	17/14	74/47	90/54	455/97	730/101	1139/122
W9RE	3,196,620	18/16	68/42	90/58	469/97	660/102	1173/115
K3TUP (KC1F, op)	3,078,543	13/12	60/42	89/49	589/98	532/94	1226/114
NA8V	3,002,790	11/10	51/35	116/54	545/96	625/90	1186/110
K1YR (K2SS, op)	2,981,664	15/12	67/42	89/56	608/95	535/102	1125/101
K3ZO	2,633,550	5/5	63/42	183/54	552/85	660/83	962/93
K0RF (W0UA, op)	2,578,950	7/6	43/28	150/47	362/71	852/87	1191/91
W2RQ	2,577,744	0/0	71/44	137/61	564/95	505/100	829/108

Top Ten W/VE Single Operator, Assisted—CW

Call	Score	160	80	40	20	15	10
AA1K	2,729,022	61/40	146/68	397/75	536/88	451/89	435/89
K3WW	2,449,272	35/29	144/59	382/79	554/93	376/79	421/88
N3AD	1,939,677	15/13	106/46	319/74	571/80	415/71	375/75
K3IPK	1,926,216	12/15	94/46	327/76	558/81	360/77	375/77
W2GD	1,873,056	51/37	100/60	379/83	456/88	278/85	168/83
NM2Y	1,298,052	28/24	59/46	224/66	366/74	258/69	277/78
K3OO	1,152,228	16/14	102/44	130/41	288/68	303/62	365/90
N7NG	1,010,259	10/9	87/22	220/59	371/73	314/63	205/53
K2NJ	1,005,720	0/0	50/29	78/34	413/65	314/79	305/82
K3SA	914,400	6/6	39/32	132/50	416/75	185/61	238/76

Top Ten—DX CW

Call	Score	160	80	40	20	15	10
TG0AA (OH2BH, op)	5,654,115	208/42	542/52	880/56	1369/57	1425/58	1411/58
HK0/N3JT	5,231,100	325/49	467/52	785/57	1085/57	1237/57	1401/57
ZD8Z (N6TJ, op)	4,027,452	52/23	324/43	598/52	1154/57	1262/56	1304/55
AH3C	3,051,594	75/26	333/38	642/47	651/53	908/54	1117/55
C6A/K1TN	2,664,723	119/29	378/46	596/51	789/54	745/50	534/51
YL3GQ	2,375,586	32/19	230/41	536/53	679/54	491/48	954/56
EL2CX (K3RV, op)	2,357,532	0/0	231/42	340/47	852/53	624/55	1109/52
F2CW:	1,852,422	48/17	300/41	341/44	469/48	709/56	564/48
YT3AA	1,808,487	22/14	258/38	474/48	501/48	633/52	533/49
J6LSN	1,715,859	0/0	219/43	371/49	342/52	509/52	856/53

Top Ten—DX Phone

Call	Score	160	80	40	20	15	10
P40V (AI6V, op)	8,031,456	114/33	426/55	583/57	1776/57	1570/56	4003/58
FG5R (W7EJ, op)	6,468,489	77/26	628/55	714/56	673/58	1167/58	3674/58
AH3C	5,042,880	59/24	358/53	554/55	783/59	1123/59	2563/59
TI2DU	4,834,200	38/21	183/45	414/48	1346/56	611/53	3163/57
WR6R/KH6	4,312,122	59/23	344/52	592/59	648/57	677/57	2362/59
K1DQV/KP2	4,048,023	145/35	170/40	274/48	424/51	1119/58	2537/57
FG5/KA3DSW	3,181,572	0/0	472/51	262/50	1220/55	787/56	1231/55
DL6FBL	3,158,802	0/0	84/20	234/37	879/56	1202/56	2260/57
OK1ALW	2,835,294	0/0	91/25	319/46	749/55	1157/56	1655/56
ZF2NE/ZF8	2,598,096	0/0	65/33	47/30	838/55	472/51	2410/57

Top Ten W/VE Single Operator, Assisted—Phone

Call	Score	160	80	40	20	15	10
WM5G (KR0Y, op)	3,902,892	13/11	59/40	162/72	699/113	440/117	1343/126
K1AR	3,831,828	11/11	60/42	97/64	636/118	766/124	1069/125
N3AD	3,146,880	11/9	65/44	105/58	601/109	609/111	993/109
K3WW	3,101,934	18/16	65/52	104/61	391/106	742/120	866/118
K1DG	2,687,370	16/13	72/43	107/65	597/107	874/110	1030/115
K1TO	2,555,145	14/13	33/32	57/40	423/98	885/114	691/108
K3IPK	2,398,656	5/5	56/45	101/59	508/98	544/97	708/112
WB2P	2,221,380	13/12	39/33	74/49	412/110	439/103	786/113
W3USS (WB2EK, op)	2,103,375	1/1	32/29	65/56	364/90	614/109	699/110
K13V/7	1,919,151	3/1	43/25	196/39	250/80	517/95	824/349

finished second with 1.0 meg and K7RI was third with 998k points.

Last year's plaque winner, Doug, KR2Q, returned as QRP CW champ in 1990, scoring 314k points. W0UO finished in second place with 310k. N0AX was third with 248k points. N4KG with 564k points just slipped by W2TZ with 544k points for the W/VE QRP phone plaque. W0UO was third with 322k.

The single-band entry category showed good activity and close finishes. WING won the 160-meter CW plaque, scoring 6k points, and veteran K1ZM took the phone plaque with 5k points. The 80-meter W/VE plaques went to W1FV on CW with 126k points and KA1XN on phone with 41k. W00G finished in first place in the CW single-band 40-meter category, scoring 229k points. K4XS set a new all-time 40-meter phone record with 129,774 points, beating K6NA's 1988 record of 124,860 points. K4VX (W9WI, op) more than doubled W5FO's score to win the 20-meter CW plaque. W0ZV easily took the phone plaque, scoring 544k points. WN4KKN/5 won the 15-meter CW plaque, edging out W5VX by 2k points. On phone, W7WA was the clear winner, scoring 745k points. K1ZM led the way for the 10-meter CW plaque, scoring 204k, and K3ZJ scored 726k points winning the 10-meter phone plaque.

The single operator, assisted category



Pilar, EA9AM, and Juan, EA9IE, operated Multi-Two from Ceuta in the phone contest. A heavy storm tore away most of their antenna system halfway through the test.

proved to be a very popular new addition to the DX contest. On CW, AA1K wins the plaque, scoring 2.7 million points. K3WW finished in second place with 2.4 meg and N3AD was third with 1.9 meg. During the phone weekend, KR0Y, guest operating at WM5G, scored 3.9 million points to win the single op, assisted phone plaque. K1AR finished right on his heels with 3.8 meg and N3AD finished third with 3.1 meg points.

There was fierce competition in the W/VE multioperator single transmitter category. During the CW contest, W3BGN and crew took top honors, scoring 2.6 million points to edge out rival K1VR with 2.5 meg. On phone, the duel was between W3BGN and AA1K. 'BGN and crew finished in first place by only 2k points. In the multioperator, two-transmitter category, the gang at N3RS ran away with the CW plaque, scoring 4.7 million points. NQ4I was second with 2.4 meg. The phone contest was more of a battle, with K2TR and friends scoring 6.0 meg, edging out KS9K by 70k points for the multi-two phone plaque. W3LPL and ops showed no mercy and blew everybody away, winning the multi-unlimited plaque on both modes. Frank and crew scored 6.9 million points on CW; on phone, they set a new all-time phone multi-unlimited record at 11,002,497 points, beating their 1989 record of 8,953,632 points—

Top W/VE Single-Band Scores—CW

160	80	40	20	15	10
W1NG 6,120	W1FV 126,603	W00G 229,890	K4VX (W9WI,op) 335,400	WN4KKN/5 300,768	K1ZM 204,444
K4TEA 5,250	K2EK 123,360	W6XX 172,368	W5FO 155,388	W5VX 228,252	K5RX 162,378
K2RIH 3,483	W0ZV 48,675	AA4S 159,732	N2DTW 140,220	W7WA 226,260	KM1C 131,110
VE3DO 2,688	KB0G 35,526	KV0Q 148,248	WF5E 132,432	N8CXX (K8JM,op) 203,949	N4ZZ 131,097
W2FCR 2,208	KC7EM 33,276	K3WUW 136,320	KM5G 117,552	KJ9D (KK9V,op) 151,389	W2SC 128,160
N6SS 1,674	WB9Z 32,712	KS1L 124,488	N3RR 98,118	N4IR 143,520	WB4TDH 112,992
W2BN 1,638	N2NU 25,536	K1WGM 122,304	WA2ASQ 71,994	K4TKM/6 129,120	W5VGX 103,284
W0CD 1,254	N2AU 24,360	WA4JTI 83,916	K6XO 63,063	W6BSY 114,579	W5YZ 102,255
KC8JH 630	K0LUZ 19,950	K5IU 37,944	KA7T 56,595	WB5UDX 92,568	K9BGL 94,350
N6LL (WA6CDR,op) 594	K0II 15,450	KJ0B 35,280	AA4NJ 53,184	NI5M 70,863	NC1E 76,518

Top W/VE Single-Band Scores—Phone

160	80	40	20	15	10
K1ZM 5,508	KA1XN 41,724	K4XS 129,774	W0ZV 544,236	W7WA 745,173	K3ZJ 726,516
K5UR 4,002	WB8JBM (NZ4K, op) 35,916	KM2P 85,779	KS1L 427,635	KB1WH 604,992	N8CXX 631,158
W2FCR 1,071	K4HJJ 29,547	WQ2M 81,786	AB1A 289,800	W00G 552,636	N2IC/D 617,040
K5WXZ 855	K3WUW 15,408	KA5W 64,449	W8TWA 221,862	KJ9D (KK9V,op) 353,199	W5WUW (KE5FI,op) 581,910
	N2WK 13,113	N8RA 46,920	W5FO 117,459	W7FP 235,431	NK1F 571,356
	W3EWL 11,610	W9CH 30,720	K9CAN 99,465	WB5UDX 234,990	KW8N (KU8E,op) 563,250
	W2FR 6,438	KB1HC 28,365	K1JB 92,565	NX9T 182,103	KE3Q 506,496
	KM1R 5,916	KZ2I 28,086	WF5E 85,320	WJ2D 163,053	KQ9L 445,395
	WA4SVO 5,247	K7UR 23,493	K6XO 59,535	WB2YQH 154,350	K1NG (KB1EM,op) 419,628
	K6VI 4,536	NA2R 21,000		N2DTW 130,566	W9XT 392,223

Top DX Single-Band Scores—CW

160	80	40	20	15	10
YV1OB 59,535	OK3CBU 63,855	K0GVB/C6A 189,000	IA8A (IK8DOI,op) 174,735	G3FVB 184,338	N6OP/NP2 380,475
VP2EXX 28,842	SP3HLM 59,985	Y42MK 160,875	OH3TR (OH6LI,op) 152,772	PY2RN 170,115	LO5E (LU5EIC,op) 190,245
CT1AOZ 27,750	4N1A (YU1EA,op) 54,288	4N4A (YU4EU,op) 143,856	DL1HBT 149,640	DL3HAH 144,045	KH2D 146,772
F6CNI 13,224	I2UIY 52,890	EA4KR 109,956	JA1YFG 149,292	LZ5W (LZ1BP,op) 133,896	JH0KHR 109,089
OK5TOP 9,900	JA3YKC 36,972	OK3CQR 105,264	KL7Y 135,744	4N3E (YT3NA,op) 133,728	9J2AL 97,020
I3VHO 6,552	F8EPO 27,405	OK3KAG (OK3WDX,op) 83,202	OH1AA (OH1SY,op) 122,949	DL0IU (DL4AAE,op) 130,086	G4BUO 93,639
Y33UL 1,404	YT2D 20,088	4M7A (YV7QP,op) 81,249	JF1PUW 111,132	4N1W (YU1SV,op) 129,528	JM1LRQ 90,636
OK1JDX 1,053	OK2FD 19,320	YU3RO 78,819	JA7FTT 98,748	NL7GP 119,295	KH6XT 89,046
OK2BQU 858	SM6CPY 16,800	YT2IQ 75,504	UA0QBR 88,740	HA0LM 107,415	IO4IKW 87,906
OL8CVU 459	Y43GO 12,717	DF2WV 70,932	4K2BDU 84,975	EA2IA 104,004	G3SXW 78,678

Top DX Single-Band Scores—Phone

160	80	40	20	15	10
YV1DRK 12,852	T32AF 141,075	4M5T (YV5JBI,op) 101,736	G3FVB 376,014	NP4CC 497,292	PJ9M (OH6RM,op) 689,130
CT1AOZ 8,004	CU2AF 89,890	TG9AJR 81,855	YU1KQ 367,137	HC1HC 459,708	ZX5C (PY5CC,op) 641,250
GM40BK 3,120	YU1EXY 62,235	JA2BAY 62,550	ZW5B (PY5EG,op) 357,744	CT1BOP 438,828	L2E (LU8DPY,op) 577,440
LZ1KOZ 756	HK1LDG 46,494	I5OYY 52,416	Y3T 339,300	LZ5W 367,629	GWABLE 459,819
Y33UL 576	4N1A 23,532	LZ1KXA (LZ3ZZ,op) 48,336	Y3TE 333,558	ES2RR 315,636	YU3FW 450,576
	WL7BIL 10,696	PA3EPN 45,072	KP4FP 319,770	Y23A (YU3WE,op) 300,060	CO5T (CT1DTH,op) 446,823
	CT1DGK 8,925	ES2RJ 41,310	CE6EZ 281,532	8P6SH 272,136	GW0ARK 445,968
	JA3YKC 4,692	EA1AK 23,166	I4FYF 265,734	LY2BTA 247,950	IU4K 435,366
	N7DFIKH2 4,395	YU7AV 17,226	QH3TR 263,436	JA1YXP (JO1JOZ,op) 226,746	EL2CX (K3RV,op) 395,181
	YU3QI 2,295	RC2AZ 13,182	YZ7V (YU7ECD,op) 262,827	4K2OT 220,077	WL7E 390,735

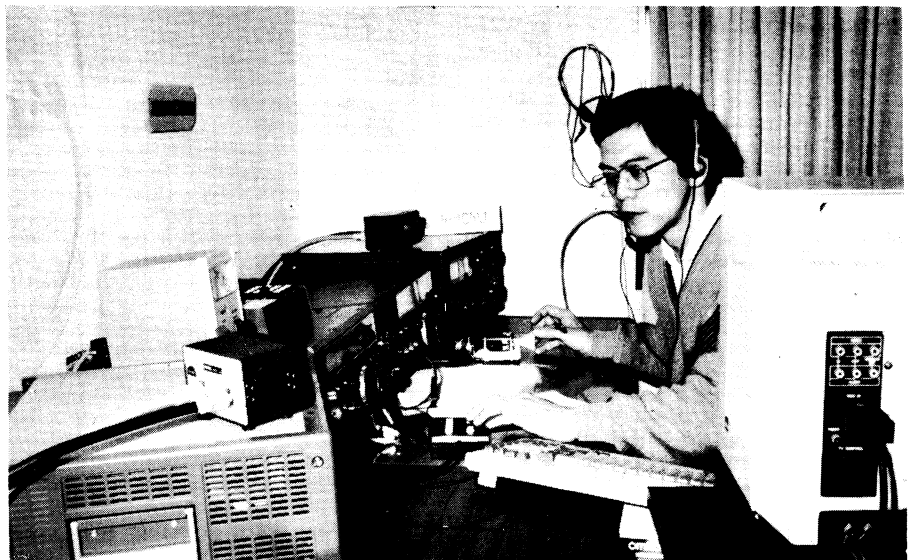
great going, guys! In second-place CW was K1ST with 5.7 meg and on phone was N2RM with 9.1 meg.

DX Highlights

The competition for the DX plaques was close, as usual, with DXpeditioners trying to justify their trips. TG0AA (OH2BH, op) with 5.6 meg points, skirted past HK0/N3JT with 5.2 meg for the single-operator win on CW. During the phone weekend, P40V easily won the single-op plaque, scoring 8 million points. FG5R was in second place with 6.4 meg.

N6OP's CW DXpedition to the US Virgin Islands paid off. Bill set a new all-time 10-meter single-band CW record at 380,475, beating HC2G's 1989 record of 306,600 points—great work!

The crew at ZF2KE finished in first place, DX multioperator, single transmitter CW category, scoring 5,980,590 points, beating their 1988 all-time record of 5,851,110 points. VP2E also set a new all-time record for multi-single phone at 9,764,490 points, beating the 1981 record of 9,685,170 points. The multi-two transmitter plaques went to JA1YDU on



Yoshiharu, JA9CWJ, running W/VEs on CW to the tune of 735 QSOs and 282k points.

Top W/VE Multioperator Scores—CW

Single Transmitter

Call	Score	160	80	40	20	15	10
W3BGN	2,695,899	49/37	148/56	408/80	523/89	553/87	366/90
K1VR	2,508,921	23/17	129/53	565/79	598/82	510/77	336/79
K2WI	2,020,545	58/36	171/63	317/71	439/79	463/85	293/86
W2HPF	1,898,235	19/17	102/50	379/79	404/77	463/85	268/79
K2SG	1,710,456	35/26	83/41	338/74	420/59	434/70	362/71

Two Transmitter

N3RS	4,763,913	50/37	244/67	696/90	894/103	830/106	443/100
NQ4I	2,468,400	14/11	158/58	504/79	462/78	351/74	588/100
N2IC/D	2,105,112	18/15	114/38	346/66	448/43	500/88	486/79
WD8LLD	1,506,270	21/20	66/41	264/81	453/78	366/73	187/77
K59B	1,175,082	0/0	71/3	228/56	423/75	334/71	241/67

Unlimited

W3LPL	6,975,414	74/43	503/78	933/104	1161/119	849/99	677/111
K1ST	5,781,888	38/29	279/73	897/99	1327/109	867/101	416/93
K5NA	5,238,870	44/34	412/85	541/87	1164/107	745/95	552/97
KY1H	5,030,928	49/35	240/67	797/94	1118/103	747/89	521/95
W3GM	4,577,580	38/29	298/69	617/91	989/104	717/100	495/97

Top DX Multioperator Scores—CW

Single Transmitter

Call	Score	160	80	40	20	15	10
ZF2KE	5,980,590	315/47	645/56	893/56	1270/57	1402/57	1516/57
PJ2J	5,241,753	289/51	512/55	755/55	1021/58	1135/58	1535/56
J34A	4,465,884	119/36	554/51	748/56	1136/58	1155/57	1044/55
XE2UZL	3,849,408	216/48	618/55	627/55	934/56	750/57	791/55
F5IN	2,447,856	83/21	425/45	537/47	584/51	695/52	741/51

Two Transmitter

JA1YDU	1,579,905	0/0	158/34	332/44	638/56	564/51	549/50
JA1YXP	1,034,892	0/0	113/21	141/31	691/56	565/51	511/45
LZ5M	995,220	0/0	210/27	386/40	519/50	422/48	173/29
JA7YCC	874,350	16/7	122/21	109/33	397/52	424/48	382/50

Unlimited

YT2R	3,325,608	188/31	391/41	745/51	1078/58	847/53	627/52
JP1DMX/H8	2,931,390	171/35	491/51	468/49	552/53	613/52	995/57
JE2YRD	2,475,264	22/7	269/39	506/48	1069/56	770/55	587/51

Top W/VE Multioperator Scores—Phone

Single Transmitter

Call	Score	160	80	40	20	15	10
W3BGN	3,650,832	22/18	88/52	172/68	651/110	648/115	923/123
AA1K	3,648,231	19/16	71/45	160/64	603/107	803/111	1005/114
W3XU	3,164,214	0/0	34/29	69/44	723/107	815/104	1036/110
WB2ULI	2,693,655	9/8	55/35	137/64	428/89	384/90	1204/119
KA1GG	2,670,336	6/6	63/38	103/50	520/90	547/87	1079/113

Two Transmitter

K2TR	6,020,253	24/21	102/53	156/68	617/112	1550/133	1393/136
K59K	5,950,206	15/12	62/40	194/77	910/119	1176/126	1594/128
N3RS	5,549,334	20/18	100/52	180/65	889/122	1313/135	1069/126
KQ2O	4,381,470	0/0	78/50	108/54	801/107	879/111	1416/123
WB9IH/9	3,904,992	15/13	56/34	128/54	635/101	771/118	1307/127

Unlimited

W3LPL	11,002,497	40/31	203/76	311/82	1527/160	1717/152	1853/148
N2RM	9,158,136	25/21	153/62	353/77	1097/142	1970/153	1254/141
NB1H	8,741,952	21/19	112/55	316/79	1469/147	1464/138	1677/138
KY1H	8,469,621	32/27	172/72	316/77	1518/140	1445/146	1294/129
K5NA	7,852,464	30/26	230/80	256/76	1361/135	1174/130	1431/137

Top DX Multioperator Scores—Phone

Single Transmitter

Call	Score	160	80	40	20	15	10
VP2E	9,764,490	300/46	812/57	756/57	1217/58	2105/58	4965/58
PJ0B	8,692,464	162/40	499/56	642/58	2005/57	1458/57	4122/58
ZF2JR	7,000,974	261/48	960/57	1010/58	878/57	1165/57	2713/57
J34A	6,024,834	82/25	454/54	727/56	1337/57	1346/56	2613/58
F6CTT	5,041,326	14/9	418/43	459/51	1510/57	1500/58	2232/56

Two Transmitter

K6GSS/KH6	4,481,583	9/7	340/48	496/55	595/53	1267/56	2686/58
4U1ITU	3,193,596	0/0	54/21	404/34	1384/57	1324/58	1693/58
JABYBY	2,283,147	0/0	94/12	211/30	785/57	979/57	1507/57
JA6YJS	1,124,820	0/0	39/6	100/17	420/51	452/51	1072/55
JH1YDT	1,103,394	0/0	5/2	86/19	485/51	347/45	1203/56

Unlimited

4B2A	11,137,392	273/50	935/56	1132/58	3017/57	2299/58	3383/57
I3MAU	5,551,902	5/5	239/29	629/52	2087/58	1855/57	2358/57
4N2N	3,112,647	8/8	92/19	281/34	1255/57	1015/58	1802/57
JA1YDU	2,277,405	0/0	91/19	243/33	762/55	868/56	1471/58
ZZ4Y	952,569	0/0	1/1	4/3	201/44	1061/56	730/55

CW and K6GSS/KH6 on phone. In the DX multioperator, unlimited category, YT2R took top honors on CW and 4B2A easily won the phone plaque.

Affiliated Club Competition

The club competition was as popular as ever, with several close contests. The Frankford Radio Club ran away with the unlimited gavel this year, amassing 154 million points, outdistancing the second-place Yankee Clipper Contest Club with 104 million points. In the medium-club category, the Society of Midwest Contesters won the gavel with 18 million points, beating second-place North Coast Contesters with 12 million points. The Overlook Mountain ARC easily took the local-club gavel, accumulating 15 million points. The Hoosier Contest Club was in second place with 4 million points.

The Contest Branch would like to thank all who participated in the 1990 contest. Special thanks to Contest Assistant Mark R. Burke, KA1MIS, for his help in preparing this report. We hope to see you next year in the 1991 ARRL International DX Contest!

SOAPBOX W/VE CW

I made several contacts QRP from my random wire and thoroughly enjoyed the DX on 40 and 80 meters (WB7EZO/1). This proves that an indoor dipole

really can work (NF1J). My electronic keyer gave out and after four contacts with a straight key, I gave out (WIRFQ). After this contest, I am now able to express Murphy's Law as an equation: 72-hour flu (temp = 102°) + Geomagnetic storm (K = 6) + Ice storm (-40-m sloper) = 467 QSOs (KZ1M). Winning isn't everything (WA1YUA). This was my first effort at QRP and I love it (K2SIG). The band conditions were disappointing; I had hoped for better 10-meter activity (WB2TPS). The contest was great, but I needed the linear to make contacts on Saturday (KT2D). The fourth greatest lie: "But dear, I'll only be on the air until dinner" (K2MK). Because of bad propagation, this was only a 30-hour effort (W3HVQ). With the lousy conditions, this wasn't a good time for me to make my first attempt at QRP (WA3EEE). I really enjoyed it! (KC4CSD). There were some weird calls in evidence (AB4SW). 100 watts and a G5RV at 35 feet can work DX on 40 meters—I covered WAC and 37 countries in just over four hours! (W3FTG). I enjoyed it—see you next year (W5FO). Ten meters is the only band my tiny vertical works well on, and unfortunately for me, it was not very hot for this contest. My score didn't set any records, but it's not bad for the few hours I was operating (W6BKY). Rain broke the intermittent in my trap vertical and put me off the air for most of the contest (AA4Q). What a difference a good QTH can make! I shall return next year (K16EZ). This was my first contest in more than 10 years and I had a great time; I just wish my signal reports were as good during regular operation as they were during the contest (WB7VKD). I had surgery about ten days before the test and then caught the flu, so this was a limited operation (W8VSK). This wasn't a great effort, but it was a lot of fun (K8MJZ). QRP is tough work! (N8CQA). Compared to 1988 and previous years, this contest was great. The 1989 conditions spoiled me, however, making this year's action seem mediocre (W9HE). This was the first time I worked

a contest and sent in the logs, and I enjoyed it (WA9TZE). There wasn't much difference between the dummy load and the beam (KT0F). The conditions were bad, the weather was bad, I got sick two days before the contest and quit smoking the same weekend. I still had fun (NR0E). Ten meters, phone home (W0UA). The band was essentially wiped at this QTH (VE5ZX). I enjoyed the contest, but 55 dupes on 40 meters cost me close to 17k (VE6BF). Conditions were not so great this year, but I still worked a few new ones! (N6IP). I'm still amazed at what 100 watts will do in this contest! (NC7K).

DX CW

This was my final ARRL DX CW test from CN8. I'll just be another WA4 in the pileups next year (CN8FC). I had to stick with 10 meters, as the North African and European QRM put me at a disadvantage (9J2AL). I envied the Americans—they had a national holiday after the contest, but in Japan, the contest ended just in time for me to go to work (JH6NBW). I could paint the East Coast on the last day (JM1LRQ). Despite the high solar activity, propagation to the US was poor (UF6CX). It was a nice contest! I hope to be in it again next year (EA7AAW). This was my first DX test and it was just great! I'm making preparations for next year (EA3FNT). See you in 1991! (EC7DMU). It's a pity domestic events always seem more plentiful during a contest weekend (EI9FK). High winds, power failures and an illness got me this year, not to mention the poor conditions (G4BKI). Where were the VE stations? (GM4HQF). It was wonderful to be at the other end of the pileup for once (GU4ARI). The test was good, but not the propagation (IK0ADY). We had aurora conditions with few openings on 10 and 15 the first day, but things improved the second day. It was an excellent contest, but we have the usual northern handicap (LA6FC). Activity was low from this side! I'll try

Contests: Everyone can Play to Win!

Almost every ham would like to win a contest, but not everyone has the time, inclination, resources or wherewithal to go head-to-head with the "big guns."

Many hams don't know that low power, a simple antenna and a few hours of fun could net them a place among the winners. Every contest has categories that beg for someone to take interest and pick up a nice certificate for the shack wall.

For instance, the rules published in *QST* (December issue) for the annual ARRL DX Contest (run in February and March) show two all-band awards, 160-10 meters, for a single operator in the low-power category (excluding QRP) for phone and CW. There are also awards for single-band entries in the phone and CW categories without power specifications. Because there are six bands involved, there are 12 ways you can obtain a single-band award in the DX contest in your ARRL section.

For years, I made a serious effort to win several contests, but never did better than second place, which doesn't get you an award. I continued to dabble in the contests half-heartedly and much to my surprise, after many more years, I received a certificate from the ARRL for First Place, 20-Meter Phone in the 1985 International DX Contest. At the time, I didn't realize I had unwittingly qualified for an award in one of the categories, but since then I've earned six more in various contests.

The only mandatory thing to do is study the rules of the particular contest you plan to enter so you'll completely understand the different categories available. On the air, work at your own pace and put in as many or as few hours as you like. A simple dipole or vertical will get the job done with a 100-watt rig, but if you've got a beam antenna, so much the better.

To win a contest, you need multipliers, so do what it takes to accumulate as many multipliers as possible. Unless you're going for a single-band award, operate on as many bands as you can. You can work the same station on six bands to get six multipliers in the ARRL DX Contest.

Don't just sit on one frequency and call "CQ contest" or waste your time in a pileup if you're running low power. It never fails that after spending a long time in a pileup, you tune up the dial a few kilohertz and find someone from the same country frantically calling CQ. Tune around the band and listen for new multipliers and look outside the highly active areas of the band you're operating on. Many of the contacts you'll be looking for are running low power, too, and take up residence "up the band," away from the crowd.

One last comment: You may think that you're no good at CW and limit yourself to working the phone contest. Although the din of the CW subbands during a contest sounds awesome, it's no different than a phone competition and CW is easier to hear in a crowded band. The exchanges are usually short and once you get into the swing, which doesn't take long, you'll be rolling along with the rest of the gang, no matter what your code speed. By the time you finish, you'll have a definite feeling of accomplishment. Try it; you'll be surprised at how easy it can be.

Whether you enter the phone or CW contests or both, don't make a lot of hard work out of it. If you own a personal computer, logging and scoring is a breeze with the software available today. The most important thing is to send your entry forms in to ARRL HQ, no matter what you think of your score; you could be among the winners!—Lewis Prescott, W1RFQ, Lincoln, Rhode Island

to do better next year, HI! (LA9DFA). It was nice to contact Mississippi for my 40-meter WAS (OH6YF). There was nothing to be heard on 10 meters the first day, but conditions were good the second day. Where were the VE stations? (OE6IMD). This was the first time I operated a 48-hour contest alone—I slept for only four hours (OH6LI). Conditions were strange: There was no propagation to the East Coast and most stations I worked were from California and W7 (OH6NIO). I hope the conditions are better next year (OZ1FFG). Conditions on 10 were almost as good Sunday as they were bad on Saturday (OZ1IOC). It was fun to operate "search and pounce" style. In particular, I enjoyed the low-band conditions (PAØERA). I had a lot of fun, thanks to the good antennas stateside (PA3ELD). 80 meters was open early (PA3BNT). I was able to work a lot with QRP (PA2JCG). It's a pity that conditions on Saturday were so poor (PA3EZZL). In this area, we had the worst conditions during any ARRL DX contest I can remember. Anyhow, I feel satisfied with the result and look forward to 1991 (SM5CLE). Conditions were not as good as they were the year before, with many states unheard (SP5TT). I worked all the West Coast with my dipole. I hope next year will be the same (SV1RP). We enjoyed making a lot of friends and working a full CW WAS in a weekend (F2CW). I enjoyed working more than 100 stations the first night on 160 (F6CNI). I had some QRN on 80 and was not able to copy the weaker stations (DL4YAO). I particularly enjoyed the 80-meter pileups, they were a surprising experience (DL1SBR). This is a nice way to meet many old friends (DK3GI). This was the first time I worked the US on 80 meters (DL4MCF). This was my first participation in the contest in 16 years

(DA1SQ). I'm sorry I couldn't pay much attention to this year's contest due to time limitations, but will try to do better next year (UT4UZ). Conditions were great to the West Coast, but poor to the East Coast (UT5UGR). My quad didn't save me from the bad propagation (UB5LCV). There were no good conditions (UC2ADX). It seems like I hear the same call signs every contest. Where are all the new guys? Scared by VEs? (UC2AB). It was a nice experience (ESSMC). 80-meter propagation was good, but the other bands were poor from southern Europe (YT3AA). This year was a lot better than last year (YU1EA). The US stations are good contest operators, but propagation was not good on 40 (YT2IQ). There were too many DX stations and not enough US (KL7Y). I went to town on Saturday and never came back (NL7GP). There was too much aurora and not enough MUF (WL7E). This was the most fun I've had contesting in quite a while. 30 watts into a long wire makes 160 meters a challenge (VP2EXX). I'm sure glad 10 came back to life during the last three hours of the contest (KG6DX). Two side benefits of 80-meter single-band are all the free time during daylight hours and not having as many QSLs to answer (N7DF/NH2). Conditions were very poor (YB2FEA). It was fun, even if I didn't have much time for the contest (OH6VR). This was my second big contest and it was a great pleasure (PA1LJA). Conditions were very poor (HZ1AB). It was thrilling to work so many East Coast stations on 80 meters (JA7YAA). The solar flux was only 106 for the weekend! (DL5XX). We enjoyed fighting the bands and making our own propagation through the aurora (OH1AD). Unfortunately, we did not get one contact on 160. It was a beautiful contest. We really enjoyed it (UZ2FWA).

W/VE Low-Power Top Ten (< 150 W)

CW		Phone	
Call	Score	Call	Score
W1PH	1,112,364	W1PH	1,151,124
WD4AHZ	729,015	K8NZ	1,050,516
NT5G	716,862	K7RI	998,460
W6JTI	636,417	N5AW	798,795
KM9P/4	572,166	WO9Z	758,016
W7YAO	547,008	KM9P/4	751,308
K9ALP	521,928	N4UH	634,032
K9QVB	468,930	W7YAO	621,756
W6UQF	468,141	NO1Y	535,482
KF5AA	435,132	KD5GD	509,571

W/VE QRP Top Ten

CW		Phone	
Call	Score	Call	Score
KR2Q	314,766	N4KG	564,186
WØUO	310,128	W2TZ	544,050
NØAX	248,217	WØUO	322,599
N7IR	236,208	K7GEX	118,680
KK2E	157,791	AA5GY	99,603
N1AFC	154,707	KEØKB	99,225
K2DM	146,964	WD4OHD	57,330
WB2ENW	117,306	KB4GID	55,257
W8VSK	102,870	N6RUX	48,573
K2SIG	100,920	W6YVK/7	28,998

Top DX QRP Scores—CW

Call	Score
K7SS/KH6	1,394,271
XF1C	852,768
HB9ADD	337,050
YU2TY	160,083
NH6T	158,592
EI3DP	103,626
JA9RPJ	98,325
VP2V/W8KIC	94,743
IØKHP	63,336
4X1IF	61,320

Top DX QRP Scores—Phone

Call	Score
HB9ADD	190,512
F1BEG	122,715
IØKHP	116,820
NH6T	115,239
JA2JSF	108,888
E18AU	60,945
OK1DKS	43,260
LA5JX	33,768
IK3JLU	26,730
SP3RBI	24,231

From this location, the results always depend on "His Majesty of Aurora." Sometimes even 25 elements per band is not enough! (ES2WX).

W/VE phone

The contest gave me a good boost on my DXCC (KA1OCZ). No, I really wasn't running QRP (KA1MIS). I learned that my two G5RVs don't work well enough into Japan (KB1HC). Using an old (and tired) HW-101 to a vertical, I was thrilled to work a TL, a YB and a 5H (KB1GN). I was glad to be the only station answering the CQ of 5T5CK (WA1QGC). From a 75-meter single-op point of view, the lack of Pacific activity was a disappointment. But working TL8WD with three minutes left in the contest made up for it (KA1XN). 80 meters had good openings Sunday morning to the Pacific, including Johnston Island. It was unusually tough to find many German stations on 80 and 40 this year (WB2AMU). This is my first effort at contesting! I loved it and will do it again (WJ2D). Due to bad connections, the computer crashed at least once for each JA worked Sunday (N2IZJ). This was my first serious effort, but not my last. Next year I plan to work the full 48 hours (NM3E). My score this year was nailed by the terrible toos—too little sleep before the test and too nice a day outside on Saturday to stay in the shack all day (KQ3V). Between having to work and having a cold, I had a ball (KA3SDP). This was a great contest. Band conditions were better than the CW weekend. I just wish I hadn't slept so late Saturday morning, but I still broke my own personal QSO and multiplier

W/VE Plaque Winners—CW

Single Operator

Category	Winner	Donor
All-Band	K1AR	Frankford Radio Club
1.8 MHz	W1NG	Gordon F. Durk, KA1DWX
3.5 MHz	W1FV	Dayton ARA
7 MHz	WO0G	Northern Arizona DX Assn
14 MHz	K4VX (W9WI,op)	Fox Cities ARC, W9ZL
21 MHz	WN4KKN/5	Carl Luetzelschwab, K9LA
28 MHz	K1ZM	Mike Badolato Jr, W5MYA
Low-Power	W1PH	Dauberville DX Assn
QRP	KR2Q	Tod Olson, K0TO
Assisted	AA1K	Billy Lunt, KR1R

Multioperator

Category	Winner	Donor
Single Transmitter	W3BGN	Northern Illinois DX Assn
Two Transmitter	N3RS	Kenwood USA Corporation
Unlimited	W3LPL	ETO, Inc/ALPHA

DX Plaque Winners—CW

Single Operator

Category	Winner	Donor
World	TG0AA (OH2BH,op)	North Jersey DX Assn
Africa	ZD8Z (N6TJ,op)	WB3KTX
Asia	JA7FWR	Alamo DX Amigos
Europe	F2CW	Clarke V. Greene, K1JX
North America	HK0/N3JT	Vic Clark, W4KFC, Memorial Award—PVRG
Oceania	AH3C	Robert J. Halprin, K1XA
South America	OA4ZV	Herbert Hoover Jr, W6ZH, Memorial Award
1.8 MHz	YV1OB	Fred Race, AL7JO, in Memory of "Mac," WB2HCT
3.5 MHz	OK3CBU	Mad River Radio Club
7 MHz	K0GVB/C6A	Gordon F. Durk, KA1DWX
14 MHz	I8AA (IK8DOI,op)	Bencher Inc.
21 MHz	G3FXB	Southern New England DX Assn
28 MHz	N6OP/NP2	ZP6XDW (N4PW)
QRP	K7SS/KH6	Gerald Griffin, MD, W8MEP
Assisted	JA7YAB (JA1-36363,op)	ARRL

Multioperator, Single Transmitter

Category	Winner	Donor
World	ZF2KE	John Brosnahan, W0UN
Asia	JA7YAA	Kenwood USA Corporation
Europe	F5IN	The Radio Place
North America	J34A	Kenwood USA Corporation
Oceania	V73AQ	Gary Stilwell, KI6T, and Glenn Stilwell, WR6O
South America	PJ2J	Kenwood USA Corporation

Multioperator, Two Transmitter

Category	Winner	Donor
World	JA1YDU	Kenwood Employees ARC, WD6DJY
Asia	JA1YXP	Kenwood USA Corporation
Europe	LZ5M	Kenwood USA Corporation

Multioperator, Unlimited

Category	Winner	Donor
World	YT2R	H. Stephen Miller, N0SM
Asia	JE2YRD	Kenwood USA Corporation
North America	JP1DMX/H18	ETO, Inc/ALPHA

Special Plaques

Single Operator

Category	Winner	Donor
W/VE Combined Score	K1RU	National Contest Journal
W/VE Low-Power Combined Score	W1PH	Rochester, NY, DX Assn
W/VE Under-18 Combined Score	KI6ZH	Connecticut DX Assn
World Combined Score	AH3C	Mike Manafio, K3UOC, 4M4A, P46S
Europe Combined Score	F2CW	Chris Williams, KG6AR
Japan Combined Score	JA8RWU	JA7WME, JG7SVZ and JH7AFR
Atlantic Division CW	K3ZO	K2NY Memorial—Salt City DX Assn
Great Lakes Division CW	K8AZ (K8NZ,op)	Livonia ARC, Livonia, MI
Great Lakes Division Phone	NA8V	Livonia ARC, Livonia, MI
Hudson Division CW	N2LT	W2AO Memorial—Order of Boiled Owls
Israel CW	4X11F	Robert B. Weinstock, KN1K
Japan Low-Power All-Band CW	JA1BNW	W7PHO Memorial—Western Washington DX Club
Poland Phone	SP9PT	Stan Wisniewski, FO5IW
Seventh Call Area All-Band CW	W7EJ	Willamette Valley DX Club
Seventh Call Area All-Band Phone	N7TT	Willamette Valley DX Club
Single-Operator Under-18 CW	WE7B	Virginia A. Greene, WB1AVA
Single-Operator Under-18 Phone	K6XT (KI6ZH,op)	Virginia A. Greene, WB1AVA
USSR All-Band CW	YL1WW (UQ2-037-83,op)	Warren C. Stankiewicz, NF1J
USSR All-Band Phone	YL1WW	Warren C. Stankiewicz, NF1J

Multioperator

Category	Winner	Donor
Caribbean Multi-Single CW	ZF2KE	The YASME Foundation
Caribbean Multi-Single Phone	VP2E	W5MYA

W/VE Plaque Winners—Phone

Single Operator

Category	Winner	Donor
All Band	K1RU	Frankford Radio Club
1.8 MHz	K1ZM	Butch Greve, W9EWC, Memorial
3.5 MHz	KA1XN	Lance Johnson Engineering, K0CS
7 MHz	K4XS	David Thompson, K4JRB
14 MHz	W0ZV	Dayton ARA
21 MHz	W7WA	Kenwood USA Corporation
28 MHz	K3ZJ	Windsor ARC, VE3OW
Low-Power	W1PH	Dauberville DX Assn
QRP	N4KG	Michigan QRP Club
Assisted	WM5G (KR0Y,op)	Corona Norco ARC

Multioperator

Category	Winner	Donor
Single Transmitter	W3BGN	Kenwood USA Corporation
Two Transmitter	K2TR	Kenwood USA Corporation
Unlimited	W3LPL	Western New York DX Assn, W2RR

DX Plaque Winners—Phone

Single Operator

Category	Winner	Donor
World	P40V	North Jersey DX Assn
Africa	5H3TW (K3TW,op)	Kenwood USA Corporation
Asia	JA8RWU	Acadiana DX Assn
Europe	DL6FBL	Gerald Griffin, MD, W8MEP/6
North America	FG5R (W7EJ,op)	Chod Harris, VP2ML
Oceania	AH3C	Doc Sayre, N7AVK
South America	HK3JJH	Kenwood USA Corporation
1.8 MHz	YV1DRK	Fred Race, AL7JO, in Memory of Charlie, W8TCA
3.5 MHz	T32AF	Kenwood USA Corporation
7 MHz	4M5T (YV5JBI,op)	Central Arizona DX Assn
14 MHz	G3FXB	Don Wallace, W6AM, Memorial, Central CA DX Club
21 MHz	NP4CC	Ray Molony, W2NCL, Memorial, Long Island DX Assn
28 MHz	PJ9M (OH6RM,op)	LIMARC
QRP	HB9ADD	Gerald Griffin, MD, W8MEP/6
Assisted	SP2UUU	ARRL

Multioperator, Single Transmitter

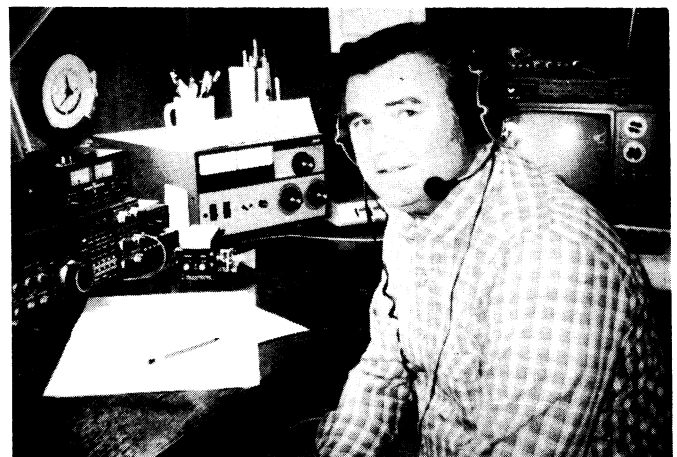
Category	Winner	Donor
World	VP2E	Carl Cook, AI6V
Asia	JE2YRD	Kenwood USA Corporation
Europe	F6CTT	Kenwood Employees ARC, WD6DJY
North America	ZF2JR	Society of Midwest Contesters
Oceania	FO0XXL	ARRL
South America	PJ0B	Kenwood USA Corporation

Multioperator, Two Transmitter

Category	Winner	Donor
World	K6GSS/KH6	Kenwood USA Corporation
Africa	EA9IE	Stanley Cohen, WD8QDQ
Asia	JA8YBY	Kenwood USA Corporation
Europe	4U1ITU	KB4OMW and WB4CKY, The Middletons

Multioperator, Unlimited

Category	Winner	Donor
World	4B2A	Wayne Yoshida, KH6WZ
Asia	JA1YDU	Kenwood USA Corporation
Europe	I3MAU	Doug Robbins, KY2O
South America	ZZ4Y	Kenwood Employees ARC, WD6DJY



WX6M "had a lot of fun in the contest." Art made about 900 combined QSOs in the Single Assisted category.

DX Continental Leaders—CW

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All-Band	ZD8Z (N6TJ,op)	JA7FWR	F2CW	HK0/N3JT	AH3C	OA4ZV
160	—	—	CT1AOZ	VP2EXX	—	YV10B
80	ZS6BCR	JA3YKC	OK3CBU	—	N7DF/NH2	—
40	—	JE7JDL	Y42MK	K0GVB/C6A	—	4M7A (YV7QP,op)
20	—	JA1YFG	IA8A (IK8DOI,op)	KL7Y	—	—
15	—	JA9NFO	G3FXB	NL7GP	KH6WT	PY2RN
10	9J2AL	JH0KHR	G4BUO	N6OP/NP2	KH2D	LO5E (LU5EIC,op)
Assisted	—	JA7YAB	—	—	—	—
Multioperator						
Single Transmitter	—	JA7YAA	F5IN	J34A	V73AQ	PJ2J
Two Transmitter	—	JA1YXP	LZ5M	—	—	—
Unlimited	—	JE2YRD	—	JP1DMX/H18	—	—

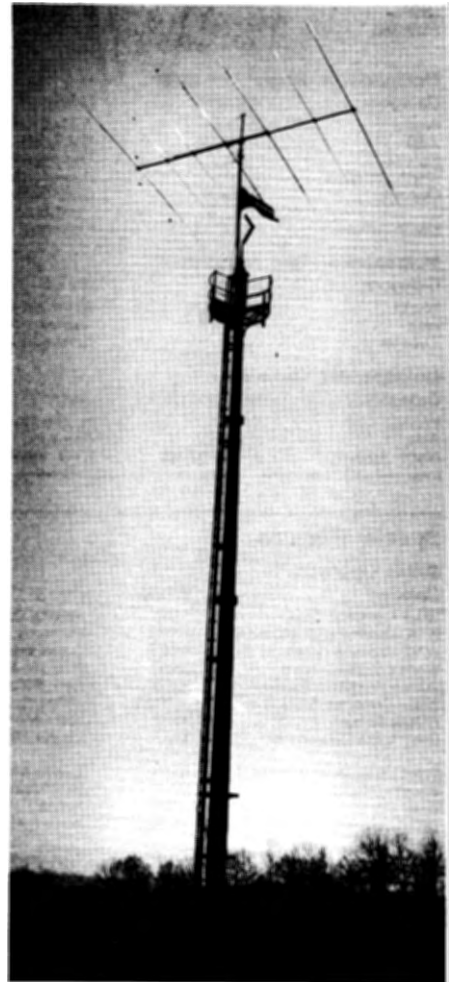
DX Continental Leaders—Phone

Single Operator	Africa	Asia	Europe	North America	Oceania	South America
All-Band	5H3TW	JA8RWU	DL6FBL	FG5R	AH3C	HK3JH
160	—	—	CT1AOZ	JP1DMX/H18	—	YV1DRK
80	—	JA3YKC	CU2AF	WL7BIL	T32AF	HK1LDG
40	—	JA2BAY	ISOYY	KG9AJR	—	4M5T (YV5JBI,op)
20	—	UW9LA	G3FXB	KP4FP	—	ZW5B (PY5EG,op)
15	—	JA1YXP	CT1BOP	NP4CC	YC2IAB	HC1HC
10	EL2CX (K3RV,op)	JA0JHA	GW4BLE	WL7E	KH6DLW	PJ9M (OH6RM,op)
Assisted	—	—	SP2UUU	—	—	—
Multioperator						
Single Transmitter	—	JE2YRD	F6CTT	ZF2JR	FO0XXL	PJ0B
Two Transmitter	EA9IE	JA8YBY	4U1ITU	—	—	—
Unlimited	—	JA1YDU	I3MAU	—	—	ZZ4Y

Affiliated Club Program

Unlimited Category	Score	Entries	CW Winner	Phone Winner
Frankford Radio Club	156,060,143	141	N2LT	K3OO
Yankee Clipper Contest Club	104,309,259	94	K1AR	K1RU
Potomac Valley Radio Club	45,115,665	53	K3ZO	K3ZO
Northern California DX Club	26,809,479	81	N6TV	K6HNZ
Medium Category				
Society of Midwest Contesters	18,043,200	32	W9OP	WB9Z
North Coast Contesters	12,578,871	16	K8AZ (K8NZ,op)	WB3KXX
North Texas Contest Club	12,497,661	18	N5RZ	N5AU (WB5VZL,op)
Minnesota Wireless Assn	9,100,011	10	N0AT	N0AT
Rochester (NY) DX Assn	8,180,781	24	KM2P (N1ATN,op)	W2HPF
Mad River Radio Club	6,854,523	15	W8UA	N8CXX
Western Washington DX Club	6,607,698	28	N7TT	N7TT
San Diego DX Club	6,326,199	14	K6NA	K6XT (K16ZH,op)
Willamette Valley DX Club	4,757,664	6	A17B	WR7E
Northern California Contest Club	4,342,188	8	AD6E	—
Dixie DXers Contest Club	3,179,685	7	N8LM	AA4GA
Southern California Contest Club	2,960,922	7	N6LL (WA6CDR,op)	N6AA
Albany ARA	2,461,233	20	K2ONP	NW2J
Redwood Empire DX Assn	2,166,183	13	W6FSJ	W6PM
Southern California DX Club	2,064,861	11	W6UJX	KK6BB
South Jersey Radio Assn	1,660,635	24	K2JLA	W2PAU
Murphy's Marauders	1,532,973	11	K1IN	KG1D
Grand Mesa Contesters	1,473,675	8	KJ0G	N0ZA
Western New York DX Assn	1,473,645	8	WB2ABD	KD2YP
Western Illinois ARC	1,321,218	13	K10W	N9JF
Long Island DX Assn	906,783	9	K2MFY	K2MFY
Kansas City DX Club	769,080	5	KM0L	WJ0I
Southeastern DX Club	739,857	7	W4DXI	AB4RU
Central California DX Club	695,847	10	W6MUS	K6DT
Metro DX Club	683,973	13	WD9GGY	K9MDO
Eastern Iowa DX Assn	590,862	9	KE0Y	W0PPF
West Park Radiops	387,783	9	W8BE	W8BE
Local Category				
Overlook Mountain ARC	15,585,609	8	W2XL	N2AAK
Hoosier Contest Club	4,564,218	7	N9NS	W9RE
Carolina DX Assn	3,058,341	8	AA4S	K4YYL
Central Arizona DX Assn	2,677,767	6	K7GM	K7WK
Northern Ohio DX Assn	2,183,973	4	—	K8DJC
Dauberville DX Assn	2,162,565	9	WA3LFY	NM3E
Boiled Owls of New York	1,727,580	5	K2SX/1	K2SX/1
Mile-Hi DX Assn	1,671,843	5	W0UO	W0UO
Utah Contest Club	1,232,538	4	WE7B	WE7B
Alamo DX Amigos	815,220	9	K5DB	N5HB
Columbus (OH) ARA	706,734	3	K9ALP	W8NPF
No Dot DXers	677,391	3	K9QVB	K9QVB
Ogdenburg ARC	218,856	3	—	WN2R
River City Contesters	158,247	4	K8SG	K8SG
Douglas Co ARC	145,776	3	W4JFL	—
Sturdy Memorial Hospital ARC	89,559	6	K1ZZJ	K1ZZJ
Naked Chicken Contest Club	85,419	6	NF1J	NF1J
Radio Amateur Transmitting Society	35,103	4	—	W4AY (WA4ZZU,op)

records (WB4KOT). I was surprised and delighted with the effectiveness of my 60-100 watts on all bands after years of high-power contest operation. The conditions were good for this 70-year-old ham (N4UH). I had a lot of fun! I worked the contest with a barefoot TS-930S into a ground-mounted vertical. I was sick with the flu Sunday and didn't get to finish as I had hoped! (KC4DO). I enjoyed operating single-band for a change. My wife saved the day by letting me use her computer for logging purposes (NX9T). This was my first contest since getting my Novice license. I enjoyed it and am looking forward to more (KC4NKR). In spite of external happenings, I was surprised by my score (W9LSD). I had a fantastic run of JAs for about an hour on 40 Sunday morning (K4XS). This was my first-ever contest. It was fun, even though I discovered that the dipoles were tangled at 2355Z! K1EA deserves a special plaque from all contesters for his FB software (KM4YY). It was a great contest—there were a lot of openings. I'm sorry I had to quit so early the second day, but I did manage to work quite a few new countries (N4PUV). My heart just wasn't in it this year (W5FO). Someday I'll find out what a real effort might generate, with a lot of time devoted to that weekend (KASPVB). I worked more Europeans than JAs! (K6SVL). It was good fun, considering the time I actually spent operating (K16CK). Having good software sure makes it a lot more fun and less fatiguing. Now when the contest is over, it's over! (K7RI). It was a nice contest and lots of fun (W07Y). I was impressed with professional operation by some of the DX stations. Without it, I'd never have made it through the pileups for ops like T77C (WB7VKD). Thanks for



Here's a view of part of the antenna farm at HB9ADD. Eric operated his station QRP, finishing third-place World CW and first-place World phone.

Overall Division Leaders

CW	Division	Phone
K3ZO	Atlantic	K3OO
K9MA	Central	W9RE
N0AT	Dakota	N0AT
W4XJ	Delta	W5WUU (KE5FI,op)
K8AZ (K8NZ,op)	Great Lakes	NA8V
N2LT	Hudson	W2RQ
W0EJ	Midwest	W0EJ
K1AR	New England	K1RU
W7EJ	Northwestern	N7TT
N6TV	Pacific	K6HNZ
K0RF (W0UA,op)	Rocky Mountain	K0RF (W0UA,op)
K4PQL	Roanoke	KX3Q
W24F	Southeastern	WZ4F
K6NA	Southwestern	K6XT (K16ZH,op)
N5RZ	West Gulf	N5AU (W85VZL,op)
VE3KP	Canada	VO1MP

Low-Power Division Leaders (< 150 W)

CW	Division	Phone
K3OX	Atlantic	NM3E
K9QVB	Central	W09Z
KE0UJ	Dakota	AC0W
NT5G	Delta	W4AY (WA4ZZU,op)
K9ALP	Great Lakes	K8NZ
K2MFY	Hudson	K3FNV
ND0F	Midwest	WB0YJT
W1PH	New England	W1PH
W7YAQ	Northwestern	K7RI
W6JTI	Pacific	WA7CWM
W0IZ	Rocky Mountain	KD0NB
NU7F4	Roanoke	N4UH
WD4AHZ	Southeastern	KM9P/4
W6UQF	Southwestern	N6ADK
KF5AA	West Gulf	N5AW
VE6BF	Canada	VE7HBQ

QRP Division Leaders (< 5 W)

CW	Division	Phone
K3NCO	Atlantic	W2TZ
WB9HRO	Central	K9PNG
W0NGB	Dakota	KE0KB
NU4B	Delta	AA5GY
W8VSK	Great Lakes	W8EAO
KR2Q	Hudson	—
—	Midwest	NO0Y
N1AFC	New England	KN1M
N8AX	Northwestern	K7GEX
WB6IM	Pacific	N6RUX
W8UO	Rocky Mountain	W8UO
—	Roanoke	WD4OHD
KA4YAE	Southeastern	N4KG
N7IR	Southwestern	—
AK5E	West Gulf	KA5PVB
—	Canada	VE6MAA

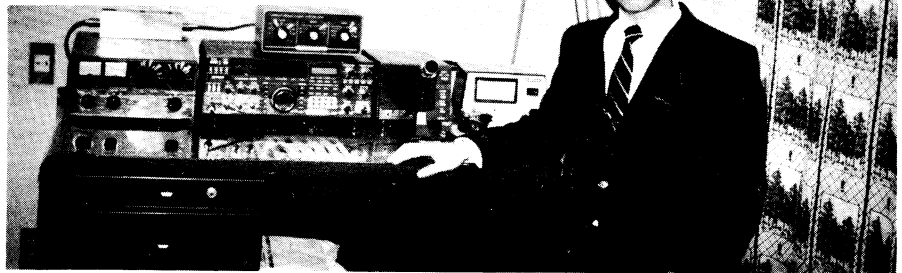
another great DX contest this year! (WE7B). Conditions were good the first night, but line noise on the Beverage hurt the second night (NZ4K). This was my first try at single-band operation and I had a ball on 10 meters! (N8AGU). EA3EA said he was running 100 milliwatts; ten minutes later HA800 confirmed 10 kilowatts. These were the low and high powers received in the contest (K3ZJ). It's always a joy to participate with and meet the sharpest operators in the world (W9GXR). The HW-101 and trap vertical I've been using for the past 10 years are still running well for casual contesting (KA0P). I had a ball in this year's contest with my low-power station (VE3NYT). Conditions on the first day were great (VE6SH). This one was just for fun (VE6CWW). It was a treat to get into a lot of the big-gun pileups (VE6MAA). Thanks to K1EA and AK1A for making DX contesting more fun than ever! (KR0Y). Murphy made it into my shack this year, as I found after the contest that both of my antennas were shunted to ground (KG5VK). My rotator stuck due south Saturday afternoon. I learned that Europe works poorly off the back of the beam (WW61). The 10-meter propagation was great (AI7B). 100 watts in an SSB contest is work! (NC7K). I worked A41JR on 20 when he called a "normal" CQ. After the nice chat, I felt bad when I left him with a massive pileup (K1SSN). The contest was fantastic! Special thanks to AH3C

(N3BNA). This was my first major contest from my new QTH. The JAs sure are loud! (WB2ULI).

DX phone

My operation was from the VOA Botswana Relay Station using an idle commercial rhombic antenna aimed at the US, which proved to be quite a thrill! (A22AA). I missed many multipliers on the low bands due to poor conditions (5H3TW). I only operated for 15 hours—the bands sure were crowded! Conditions were good (JF2GYH). This was my first contest (JE8PHS). The conditions on 10 were not so good (JA3GLU). I thank the 45 stations that heard me (JJ1RBF). I am happy to have worked over 500 stations (JE7DOT). Someone said "My wife has gone away" (JP1SRG). Thanks for the nice contest (UW0CV). This year's contest held quite a few surprises. Normally the 10-meter band is only open for short periods, but during this contest we had long openings (VU2GDG). It was a pleasure working US hams on a rare opening for low-power stations like mine (VU2UR). There wasn't much activity on the lower frequencies (CU2AF). My thanks to everyone and congratulations to CT2A (CT1BOP). It's always a real pleasure to be in the contest. I heard a lot of stations on 160, but didn't meet with any success (DL8PC). Outstanding conditions on 10 meters made this a highlight in my contest life (DL7ON). It's difficult to open a window among the kilowatts of Europe with only 100 watts, but it was a wonderful contest (EA1AK). Signals were beautiful from the West Coast on Friday (EA3GBU). The going was hard, but exciting. (EI8AU). I enjoyed meeting a lot of friends and working all states in a full weekend on 20 and 10 meters (F2CW). 80-mi/hr gusts followed by blizzards made a six-hour scenic drive into a 10-hour nail-biter. Try saying this 3000 times—Hotel Bravo Zero Portable Whiskey Bravo Eight Hotel Yankee Lima. (HB0/WB8HYL). The activity was just tremendous and the propagation did help a lot to make this contest an enjoyable one. I was so busy writing the QSOs at one point that my hand hurt (HA0DR). Signal levels were quite low, but so was the QRN, making virtually everyone easy copy (GM4OVBK). Conditions were poor for the Midwest and West Coast (I5OYY). I worked all states but one in the first hours (IO8RS). I worked W6 and VE7 just before I fell out of my chair in the shack (LA5JX). This may not be a winning log, but it was nice to be in there anyway (LA9DFA). This was my first phone test! It was big fun until 0800Z Sunday, when I ran out of voice (OH3TR). It seemed that 15

suffered from the super conditions (OH6NIO). I didn't anticipate working the full contest, but I worked six new states! (OZ7AX). I still enjoy participating in this contest and it is a great pleasure to be greeted with "Nice to meet you again" by old friends (OZ8T). It was nice to work so many stations with a simple rig (PA2JCG). Thanks to all those stations who copied my QRP signals (PA3ELD). We just took part in the contest to try out the new 40-meter Yagi and were kept busy for six hours (PA3EPN). We'll see you again next year (SP4GFG). I worked Washington, Idaho and Minnesota with only five watts! (SV1NA). The conditions were poor here (UA6LTI). The conditions were better than they were for phone, but my score was higher (UA6LLT). It was really enjoyable, even without a high-gain antenna. I couldn't operate the entire contest because of our wedding anniversary (UA3DPX). It was an interesting contest this year (UB3MW). W3LPL was a beacon here in Europe (UT4UZ). The door between North America and Europe opened at 2317 UTC. What a great pileup! (ES2RJ). This was my record for 20 meters (YU1KQ). This year's propagation on 20 meters was tremendous. The band was open both nights and extremely open both mornings. There was even long path during the afternoons (YT3T). Band conditions were great! I worked 44 states with only 25 watts and a quarter-wave vertical (HP1COO). Conditions were so good this year, I wish I could have worked DX! It's been a long time since I worked W1 and W2 at 0400Z on 10 meters (WL7E). This was the first year I ran all-band and it was a challenge. 40 and 15 were crowded, but it was a treat to work so many stations on 160 with only 100 watts (TI2DU). It was great fun being pursued for a change (V2/G6QQ). My experience over the past several contests is that working Washington, DC, is about as common as working Yemen. I guess a couple of XEs will have to come up and activate it (XE2GAT). This year's noise level was S7, sometimes higher (XE2HWH). Where were all the stations on 15? (8P6SH). The comments I received ranged from "You QRP guys really make my ears tired" to "What power are you really running?" (NH6T). This was my first contest on 160 (YV1DRK). The propagation the first day was very poor, but got better by the afternoon of the second day (YV6BXN).



Takeo, JR1GSE, poses by his station.



Two-time plaque winner Elvin, JA3CZY, made over 900 contacts on 15-meter phone.

Scores

The scores are listed by mode—CW and phone. For W/VE and DX scores, Single operators are listed first, followed by Multioperator Single-Transmitter, Multioperator Two-Transmitter, then Multioperator Unlimited. W/VE Single-Transmitter scores are broken down by call area and ARRL Section. W/VE Multi-Single scores are broken down by call area only. All W/VE Multiop Two-Transmitter and Unlimited scores are grouped together in descending order by score. DX Single-op and Multiop scores are broken down by continent and country. Under each ARRL Section (and country for DX), Single-op scores are listed in descending order by category. All-band scores are listed first, followed by 160, 80, 40, 20, 15 and 10-meter Single-band scores. Each line score lists the following information: call sign, score, QSOs, multipliers, power output used (A = 5 W or less; B = 6-150 W; C = more than 150 W). Single-band entries are indicated by 160, 80, 40, 20, 15 and 10. For example, in Connecticut, the top All-band CW scorer is K1TO. The top Low-Power (150 W or less) entrant is WB7EZO/1. W1NG has the top 160-meter Single-band score, KS1L has the top 40-meter Single-band score, NF1J has the top 20-meter Single-band score and NC1E has the top 10-meter Single-band score. KA1CZF has the top QRP score.

Eastern Pennsylvania

W/VE CW

Single Operator

Table listing scores for Eastern Pennsylvania Single Operator W/VE CW. Includes call signs like K1TO, K1CC, K1RU, K2SX/1, KG1D, K1IN, K1BV, AAZZ, WB7EZO/1, W1CNU, KA1CZF, W1NG, KS1L, NF1J, NC1E with their respective scores and multipliers.

Eastern Massachusetts

Table listing scores for Eastern Massachusetts Single Operator W/VE CW. Includes call signs like W1KM, N6BV/1, W1IHN, KA1DWX, KQ1V, WA1UAR, N1DC, N1EDM, KQ1F, K1ZZJ, W1FV, W1FM, KM1C with their respective scores and multipliers.

Maine

Table listing scores for Maine Single Operator W/VE CW. Includes call signs K1JB, N1AFC, K1ZQC, KN1M with their respective scores and multipliers.

New Hampshire

Table listing scores for New Hampshire Single Operator W/VE CW. Includes call signs K1AR, KC1F, W1PH, WA3ECT, K1NH, NB1H with their respective scores and multipliers.

Rhode Island

Table listing scores for Rhode Island Single Operator W/VE CW. Includes call signs KS1J, K1VSJ, WA1HYN, K2MN, W1RFQ with their respective scores and multipliers.

Vermont

Table listing scores for Vermont Single Operator W/VE CW. Includes call signs N4DW, W3OSH, WA1OGC, WA1GUV with their respective scores and multipliers.

Western Massachusetts

Table listing scores for Western Massachusetts Single Operator W/VE CW. Includes call signs K1BW, K21M, K1DPB, W2SC with their respective scores and multipliers.

2

Eastern New York

Table listing scores for Eastern New York Single Operator W/VE CW. Includes call signs W2XL, KF2O, NA2M, K2ONP, NW2J, W2AWF, K2SIG, W2TF, W2QYA, KA2AQV, AA2Y, WF2B, K2RIH, K2EK, W2DW, KB2AUQ, K1ZM with their respective scores and multipliers.

NYC-Long Island

Table listing scores for NYC-Long Island Single Operator W/VE CW. Includes call signs N2UN, K2LE, WB2TPS, K2MFY, K2KE, WB2ENW, K2DZE, W2DX, K2KTT, W2AKZ, W2KTF, WB2AMU, W2DWT, N2KW with their respective scores and multipliers.

Northern New Jersey

Table listing scores for Northern New Jersey Single Operator W/VE CW. Includes call signs N2LT, W2RQ, N2NT, K2PS, K2ZS, KR2Q, KB2HZ, K2DM, KT2D, WR2G, K2PH, W9NTU, W2AOY, W9FCF, W2FCR, WA2ASQ, NF2K with their respective scores and multipliers.

Southern New Jersey

Table listing scores for Southern New Jersey Single Operator W/VE CW. Includes call signs K2FL, N2MR, K2MK, K2JLA, W2PAU, WA2AJJ, W2EA, N2FY, K2SWZ, K2OSV, W2GN, K2LOO, KE2OP, WA2VSO, W3ELJ, W2BN, N2NU, KC2TA with their respective scores and multipliers.

Western New York

Table listing scores for Western New York Single Operator W/VE CW. Includes call signs KM2P (N1ATN,op), WB2ABD, K2NV, N2WK, W2HG, W2QIP, KD2YP, WE2K, NS2X, K1JUL, WJ2O, W2FU, W2RUK, N2AU, W2FR, WA2AOG, W2FXA, WB2YQH with their respective scores and multipliers.

3

Delaware

Table listing scores for Delaware Single Operator W/VE CW. Includes call signs NW3Y, W3NX, K3WUW with their respective scores and multipliers.

Eastern Pennsylvania

Table listing scores for Eastern Pennsylvania Single Operator W/VE CW. Includes call signs W3UM, K3NW, K3TEJ, K3WJV, K3XO, W3EYV, KL7HIR/3, KU3K, NK3U, W3EHz, KW3R, W3QIR with their respective scores and multipliers.

Table listing scores for NYQ3S, K3NL, KA1LD/3, WA3LY, W1VYF, AAAMD/3 with their respective scores and multipliers.

Maryland-DC

Table listing scores for Maryland-DC Single Operator W/VE CW. Includes call signs K3ZO, K3NA, W3HVQ, K3EI, K3AV, W3HVM, W3PCB, K3NCO, WA3EE, K3YDX, W3YVT, W4KM, KN3T, W3CDG, N3RR, W3TUX with their respective scores and multipliers.

Western Pennsylvania

Table listing scores for Western Pennsylvania Single Operator W/VE CW. Includes call signs KSZD/3, N3GLK with their respective scores and multipliers.

4

Alabama

Table listing scores for Alabama Single Operator W/VE CW. Includes call signs WZ4F, KK4SM with their respective scores and multipliers.

Georgia

Table listing scores for Georgia Single Operator W/VE CW. Includes call signs KM9P/4, N8LM, W4DXI, K4MJ, WA4JL, AB4RU, KA4EA, AB4LK, WA4KC with their respective scores and multipliers.

Kentucky

Table listing scores for Kentucky Single Operator W/VE CW. Includes call signs N44R, NA4M, W4FOT, AA4NJ with their respective scores and multipliers.

North Carolina

Table listing scores for North Carolina Single Operator W/VE CW. Includes call signs K4PQL, K4PB, KB3MP, N4QVM, K4FOY, N4UH, KA2CDJ/4, K5LZT, AA4S, N4HEK with their respective scores and multipliers.

Northern Florida

Table listing scores for Northern Florida Single Operator W/VE CW. Includes call signs WC4E, KC4GSD, W4WVK, K0LUX, K0LIU, N4EEB with their respective scores and multipliers.

South Carolina

Table listing scores for South Carolina Single Operator W/VE CW. Includes call signs W3VT, W6OKX/4, NU7F/4, W8CNL/4, KA4HOG, K4WJV with their respective scores and multipliers.

Southern Florida

Table listing scores for Southern Florida Single Operator W/VE CW. Includes call signs WD4AHZ, K4MF, KM4KJ, WA5DTK, KA4YAE, KN4BP, AB4RL, N4AW, WB4TDH, K5OTI/4, WA4OJL with their respective scores and multipliers.

Tennessee

Table listing scores for Tennessee Single Operator W/VE CW. Includes call signs WA4X, AB4SW with their respective scores and multipliers.

Table listing scores for NU4B, WA4JTI, NA1R, NAZZ, KA4UZ with their respective scores and multipliers.

Virginia

Table listing scores for Virginia Single Operator W/VE CW. Includes call signs AA4XU, K1ZZI, N3OS, NA4MO, WB4LUD, K6ETM/4, NA4ZP, W3FTG, AA4KD, NA4RM, NA4MM, N4HY, NA4JA, AA4JZ, K1WGM, W4YE, WA4KMS with their respective scores and multipliers.

5

Arkansas

Table listing scores for Arkansas Single Operator W/VE CW. Includes call signs K5HYB, K5XK, NU1JV, W5EJ, KM5G with their respective scores and multipliers.

Louisiana

Table listing scores for Louisiana Single Operator W/VE CW. Includes call signs NT5G, K5KLA, N0SW with their respective scores and multipliers.

Mississippi

Table listing scores for Mississippi Single Operator W/VE CW. Includes call signs W1MK, WA5OYU, KC5EE with their respective scores and multipliers.

New Mexico

Table listing scores for New Mexico Single Operator W/VE CW. Includes call signs AA5B, W5FS, AG5S, W5VZ, W5DO with their respective scores and multipliers.

North Texas

Table listing scores for North Texas Single Operator W/VE CW. Includes call signs NSRZ, WMSG (KR0Y,op), NS5RM, W5UDA, W5AGIK, K5WXX, K5IU, W5FO, WNAKKN/5, N51M, K5RX with their respective scores and multipliers.

South Texas

Table listing scores for South Texas Single Operator W/VE CW. Includes call signs KF5AA, K5DB, N5HB, KG5OA, W5ONR, W5DSD, W5HRF, W5VX, N5BR, AK5E with their respective scores and multipliers.

West Texas

Table listing scores for West Texas Single Operator W/VE CW. Includes call signs WF5E, WBSUDX, W5VGX with their respective scores and multipliers.

6

East Bay

Table listing scores for East Bay Single Operator W/VE CW. Includes call signs N6EK, KGATV, K6H1H, W6FSJ, W6BSY with their respective scores and multipliers.

Los Angeles

Table listing scores for Los Angeles Single Operator W/VE CW. Includes call signs N61BP, W6OES, W2LF, W6FA, N6LL (WA6CDR,op), K5KT/6 with their respective scores and multipliers.

Orange

Table listing scores for Orange Single Operator W/VE CW. Includes call signs N6AV, W6BA, NW6S with their respective scores and multipliers.

Santa Barbara

Table listing scores for Santa Barbara Single Operator W/VE CW. Includes call signs W6UM, W6LJX, WA6FGV, W6OUL, AA6EQ, W6MSU, W6BKY, AA4Q, W9GIL/6 with their respective scores and multipliers.

Santa Clara Valley

Table listing scores for Santa Clara Valley Single Operator W/VE CW. Includes call signs N6TV, ADBE, N6XAN, K6CXT, W6ERS, K6SMH, W6PLJ, W6FSD, W6SYL, W6WX, AA6KX, N6NF with their respective scores and multipliers.

San Diego

Table listing scores for San Diego Single Operator W/VE CW. Includes call signs K6NA, K6JYO, W6LQF, K6WO, W6MWW, K6I2H, K6NY, AA6EE with their respective scores and multipliers.

San Francisco

Table listing scores for San Francisco Single Operator W/VE CW. Includes call signs W6JTI, K6ZUR, W6GTA, W6WD, W6PM, KATKM/6, K6EZ with their respective scores and multipliers.

San Joaquin Valley

Table listing scores for San Joaquin Valley Single Operator W/VE CW. Includes call signs KA6BIM, W6AKS/6, W6BIM, N6OT, K6OT, W61FC, W6BVM, Sacramento Valley, K6DR, W6NKR, N6JIM, K6SG with their respective scores and multipliers.

7

Arizona

Table listing scores for Arizona Single Operator W/VE CW. Includes call signs K7GM, K7WK, N7IR, W7YS, W2HTX, NN7A, N6SS, WA7AYY, KX7J, NT7MW with their respective scores and multipliers.

Eastern Washington

Table listing scores for Eastern Washington Single Operator W/VE CW. Includes call signs W7LGG, K5TV, K7EFB with their respective scores and multipliers.

Idaho

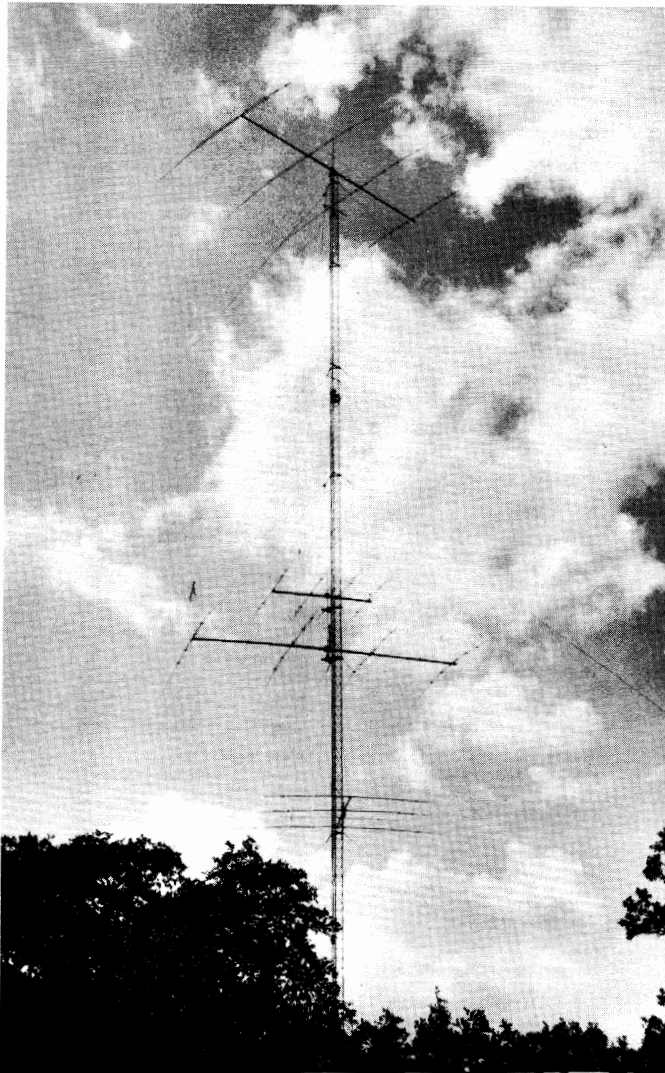
Table listing scores for Idaho Single Operator W/VE CW. Includes call sign KA7T with its respective score and multiplier.

Montana

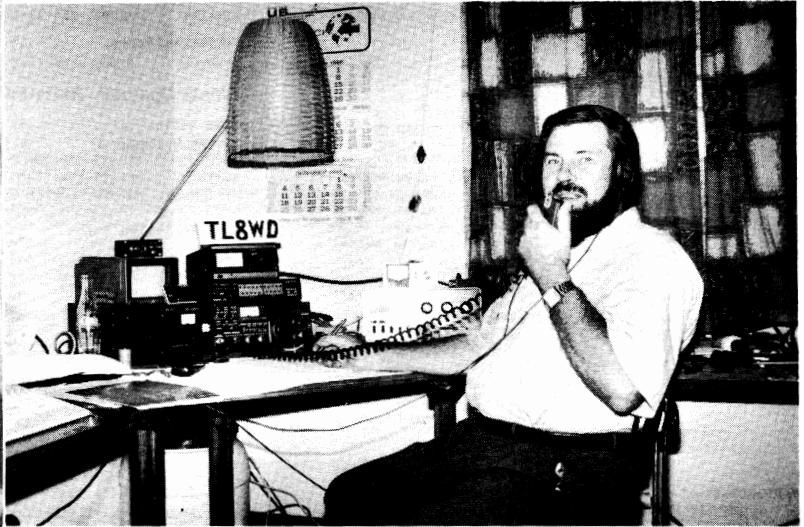
Table listing scores for Montana Single Operator W/VE CW. Includes call signs K5T7, W7LR, K7ABQ, W6ALQ with their respective scores and multipliers.

Nevada

Table listing scores for Nevada Single Operator W/VE CW. Includes call sign KZ4H/7 with its respective score and multiplier.



Here's the record-breaking 40-meter antenna system used by Bill, K4XS—two four-element beams stacked at 85 and 176 feet.



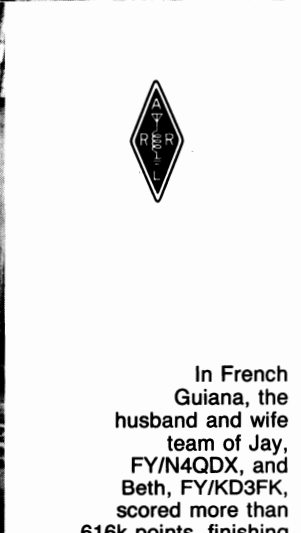
Dieter, TL8WD, works another one of his 2007 contacts from the Central African Republic.



Jim, N3JT, enjoyed a DXpedition to San Andres that netted him second-place World CW.



Hector, XE1BEF, outscored all the Mexican 10-meter ops with 62k points on phone.



In French Guiana, the husband and wife team of Jay, FY/N4QDX, and Beth, FY/KD3FK, scored more than 616k points, finishing as the top Multi-Single entry from South America.



K4BNC	29,403	99-99	C	KE3Q	506,496	1319-128	C -10	Virginia				NW6S	27,105	139-65	B -20	Nevada			
WA2ASQ	12,324	79-52	B	WA3EEE	161,568	561-96	C -10	KX3Q	2,053,080	1901-360	C	WA6WPG	7,920	88-30	C -15	WA7CWM	223,617	569-131	B
W2AOY	1,848	28-22	C	W3CPB	13,770	102-45	B -10	AA4UJ	850,770	1035-274	C	N6AW	162,000	600-90	C -10	KF7RO	128,999	411-103	B
W2FCR	1,071	21-17	C-160	WB2BZR (N/T)	8,550	75-38	B -10	W4TMN	222,288	421-176	C	KC8HTA	23,496	178-44	B -10	KB7IRF (N/T)	52,632	258-68	B -10
W2GOM	81,786	317-86	C -40	WI2T	4,725	45-35	B -10	W4LMJ	188,271	367-171	C	Santa Barbara				Oregon			
NA2R	21,000	125-56	C -40	Western Pennsylvania				AA4XU	163,863	357-153	C	W6UM	432,351	603-239	C	W7YAO	621,756	909-228	B
K3RWW	11,592	84-46	C -40	K3TUP (KC1F, op)	3,078,543	2509-409	C	N4MM	110,505	265-139	C	W6UJX	402,825	655-205	C	WR7E	278,055	501-185	B
K2QLG	37,488	142-88	B -10	K5ZD/3	1,153,551	1141-337	C	N3JT	100,467	183-183	C	WA6FVJ	150,348	374-134	B	WR7F	139,695	335-139	B
Southern New Jersey				W3FTG	45,978	158-97	B	KM4YY	63,963	207-103	B	WA6AJB	125,730	330-127	C	N7RY	52,668	228-77	C
K2PS	2,191,536	2052-356	C	W3V3W	201,465	407-165	B	N14Y	38,376	156-82	C	AA6EQ	93,288	299-104	B	W6YK/7	28,998	179-54	A
K2FL	570,045	765-251	C	N3GSC	108,900	275-132	B	AA4KD	38,052	151-84	B	W6MUS	76,545	243-105	C	W6TKM	24,603	139-59	C
N2MR	468,000	650-240	C	KA3RRF	57,873	191-101	B	W4KMS	24,480	136-60	C	N6HK	13,728	88-52	C -15	N7MMQ	7,296	64-38	C
KB2F	360,812	636-189	C	WB3EKO	48,951	259-63	B	WA4MKL	21,576	116-62	C	W6BL	166,803	611-91	C -10	W7FP	235,431	777-101	C -15
W2PAU	223,470	382-195	C	W3FGS	34,953	191-61	B -20	N4XAZ	15,912	104-51	C	W9GIL/6	31,356	201-52	C -10	NQ7F	146,250	625-78	C -10
W2FYJ	199,716	374-178	C	N3GLK	2,730	35-26	B -15	W1LUG/4	1,368	24-19	B -15	KA7FEF	6,480	108-20	B -10	KA7FLM (N/T)	840	40-7	B -10
K2JLA	174,276	309-188	C	KA3SDP (N/T)	7,560	60-42	A -10	N4PUV (N/T)	19,344	124-52	B -10	Utah				W7CFL	1,264,050	1590-265	C
K2LOJ	145,485	305-159	B	4				KB4VIR (N/T)	6,360	53-40	B -10	WE7B	659,682	1094-201	C				
W2QKJ	91,392	272-112	B	Alabama				NQ4K	6,045	65-31	B -10	K6XO	59,535	245-81	C -20				
WA2VSO	66,126	206-107	B	W2ZF	1,885,800	1796-350	C	5				Western Washington							
W2CN	43,497	179-81	C	N4KG	584,186	707-286	A	Arkansas				N7TTT	1,718,556	1996-287	C				
K2OSV	42,273	183-77	C	KE4BM	351,780	572-205	C	KSGOE	486,720	624-260	C	K7RI	998,480	1548-215	B				
W2ORA	38,940	161-80	B	W4NKI	72,237	199-121	C	KGSTA	411,840	704-195	C	N7LZ	310,800	740-140	C				
K2ZS3	26,670	127-70	B	W4CYC	64,380	290-74	C	AA5GY	99,603	279-119	A	W7QN	141,141	329-143	B				
WA2DVU	25,620	140-61	C	AA4XM	12,654	74-57	B	N15HF	43,200	120-120	C	WA7BAY	140,580	355-132	C				
N2DJY	18,924	166-38	B	Georgia				NJ1V	32,250	125-86	C	N7LXO	132,396	374-118	B				
KAZKFO	15,800	100-52	C	KM9P/4	751,308	923-274	B	W5EJ	31,365	123-85	C	N7KRW	68,448	248-92	C				
N2GUW	13,818	98-47	C	AB4RU	274,200	457-200	C	WASQKU	7,011	57-41	B	KR7L	20,034	126-53	A				
KAZYKN	11,250	75-50	B	W42FTC	107,880	290-124	B	K5UR	4,002	46-29	C-160	KF7WR	17,784	114-52	B				
KA2KFL	9,804	76-43	C	K4EZ	105,534	286-123	C	Louisiana				W7VH	12,144	89-46	B				
N2AWC	8,640	64-45	C	AA4GA	72,600	200-121	B	K5KLA	15,840	88-60	B	W7WJ	745,173	2123-117	C -15				
AB21	1,008	24-14	B	KB4GID	55,257	163-113	A	W5WMM (KESFI, op)	581,910	1630-119	C -10	K7GEX	118,680	430-92	A -10				
K2XJ	28,086	151-62	C -40	KM4GW	31,500	125-84	B	Mississippi				WB7VUB (N/T)	51,333	241-71	B -10				
WJ2D	163,053	549-99	C -15	W4OYC	28,314	121-78	C	WASOYU	465,528	652-238	C	Wyoming							
N2J5B (N/T)	14,364	84-57	B -10	AB4LX	3,906	42-31	B -80	New Mexico				K7MM	706,293	909-259	C				
KA2BEW	1,311	23-19	B -10	W4CEB	45,066	203-74	C -20	AA5PA	80,784	272-99	B	K7RVX	113,850	330-115	B				
Western New York				Kentucky				KNS5	2,850	38-25	C -80	KB7M	63,504	216-98	C				
W2HPF	2,159,136	2016-357	C	WB4FOT	513,372	716-239	C	W3JQS/5	17,907	127-47	C -10	N7GV	46,872	168-93	B				
WF2W	697,680	855-272	C	WA4QM	631-191	C	North Texas				N7MSK	1,980	44-15	C					
KD2YP	576,798	766-251	C	N4XM	354,594	523-226	C	N5AU (WB5VZL, op)	2,283,270	2035-374	C	8							
W2TZ	544,050	806-225	A	AA4VL	248,124	667-124	C	N5AW	798,795	915-291	B	Michigan							
K1JUL	536,130	851-210	C	KA4PN	23,058	126-61	B	N15M	779,064	908-286	C	NABV	3,002,790	2534-395	C				
KB2WN	471,825	675-233	C	KA4WT	50,610	241-70	B -10	KD5GD	509,571	729-233	B	K8CV	173,712	376-154	C				
KB2JO	309,408	586-176	B	KB4YJG (N/T)	11,844	84-47	B -10	K5NJO	322,877	1043-103	C	N8ASM	171,390	394-145	B				
W2LU	303,912	536-189	C	North Carolina				N5EIT	240,318	474-169	B	W8URM	80,520	220-122	B				
WJ2O	288,585	605-159	C	N4U4H	634,032	816-259	B	KG5OA	124,974	318-131	C	KB7G	70,941	220-122	B				
KB2EMU	270,630	582-155	C	W4CYX	444,768	656-226	C	W5A5E	58,515	235-83	C	W8FEM	51,993	159-109	B				
WN2R	172,368	378-152	B	WBNGO	280,962	473-198	C	W5K5K	50,562	159-106	B	W8KZM	39,270	154-85	C				
NG2P	138,996	351-132	C	KJ4TI	233,244	418-186	B	NZ5M	4,320	40-36	B	W8TJO	35,520	160-74	B				
KM2P	85,779	353-81	C	KB3MP	200,232	412-162	C	K5WXX	855	19-15	C-160	KE8FO	28,080	130-72	B				
KB2SE	76,320	212-120	C	W2HTI	181,272	332-182	C	KA5W	64,449	279-77	C -40	KSBD	21,645	111-65	B				
W2QIP	74,256	221-112	C	WB2LEI/4	124,122	274-151	C	W5FO	117,559	421-93	C -20	K8QLK	10,330	65-54	B				
KB2B	68,694	214-107	B	KB4M1	75,192	241-104	B	KBSKTY (N/T)	5,487	59-31	B -10	W8XS	6,720	56-40	B				
WE2T	54,648	198-92	C	W4D0HD	57,330	210-91	A	Oklahoma				K8BVA	4,872	58-28	B				
WB2ABD	38,250	150-85	B	KC4DO	51,408	168-102	B	N5CGH	697,680	1224-190	C	W8TWA	221,862	718-103	C -20				
KS21	29,184	128-76	C	KA2CJD/4	23,643	99-79	B	N5MBD	64,974	221-98	B	N8CXX	631,158	1606-131	C -10				
K2NV	27,432	127-72	C	N4QVM	19,872	96-69	B	N5IRJ	30,561	167-61	B -10	K8LJG	74,382	322-77	C -10				
KB2OA	21,624	106-68	B	W4HVU	10,266	59-58	C	South Texas				KA8AJK	70,176	272-86	B -10				
KB2IOA	16,358	94-58	B	K5LZT	7,872	64-41	B	WN4KKN/5	393,759	653-201	C	KE8NS	15,179	80-63	B				
NS2X	8,190	70-39	B	K4HJJ	29,547	147-67	C -80	WAS1YX	251,073	547-153	B	W8BCTP	146,730	335-146	C				
KB2FRA	4,092	62-22	C	NX9T	182,103	601-101	C -15	KA5W	64,449	279-77	C -40	W8BE	145,992	335-146	C				
N2GDD	1,392	29-16	B	KCANKR (N/T)	26,730	162-55	B -10	W5FO	117,559	421-93	C -20	W8YGR	131,211	239-183	C				
N2WK	13,113	93-47	C -80	N4XHH	1,440	30-16	B -10	KBSKTY (N/T)	5,487	59-31	B -10	W8NPF	130,524	298-146	C				
W2FR	6,438	58-37	C -80	Northern Florida				Oklahoma				KB8F	104,538	262-133	C				
KM2P	15,779	353-81	C -40	KC4CSD	320,016	427-225	B	N5CGH	697,680	1224-190	C	W8ZD	83,916	333-128	C				
WB2YQH	85,350	525-98	C -15	W4W1Q	312,465	563-185	C	N5MBD	64,974	221-98	B	W8DWP	54,282	166-09	C				
W2HG	153,216	532-96	B -10	K4JDY	217,008	411-176	C	N5IRJ	30,561	167-61	B -10	W9DFZT	53,621	177-101	B				
N2JZJ	45,144	228-66	B -10	WBLSD	82,824	232-119	B	South Texas				N8LMB	51,360	160-107	B				
N2JNZ (N/T)	24,864	148-56	B -10	K8LUZ/4	4,092	44-31	C -80	WN4KKN/5	393,759	653-201	C	W8MHW	48,960	170-96	B				
3				K4XS	129,774	503-86	C -40	WAS1YX	251,073	547-153	B	W8MID	43,650	150-97	C				
Delaware				AA4J1	12,384	96-43	B -15	N5HB	171,114	361-158	B	W8MF	46,455	163-95	C				
NX3A	310,248	556-186	C	N4EEB	7,221	83-29	C -10	W5QZ	81,000	250-108	B	KBKR	34,875	155-75	C				
W3XN	136,950	275-166	C	KC4ANNZ (N/T)	1,140	38-10	B -10	K5DB	55,476	201-92	B	KFBK	15,120	80-63	B				
K3WUW	15,408	107-48	C -80	Eastern Pennsylvania				N5KAE	54,351	183-99	B	K8AOUT	6,615	63-35	B				
K3OO	3,269,025	2505-435	C	W3EVL/3	49,284	222-74	B	KB5WC/5	10,098	66-51	B	W8EAO	2,205	35-21	A				
N13P	1,002,375	1215-275	C	K3ZG	38,052	151-84	B	KA5PVB	7,614	54-47	A	W8XT	189	9-7	B				
NM3E	499,059	781-213	B	W3VW	386,588	546-236	C	W5HRF	7,200	50-48	B	WB8JBM (NZ4K, op)	35,916	164-73	C -80				
KQ3V	455,880	655-232	B	AD3Z	232,845	361-215	C	W5JDU	4,059	41-33	C	K8DJC	15,444	99-52	C -40				
KB3TS	415,224	632-219	C																

9		
Illinois		
WBZ	2,061,381-1813-379-C	
K9ZO	1,115,868-1196-311-C	
N9JF	476,778-694-229-B	
KA9YV	282,420-523-180-B	
K9UCN	276,420-542-170-C	
W9LNQ	153,000-375-136-B	
KD9Q	137,760-328-140-C	
W9CA	135,660-340-133-C	
K9QVB	119,544-293-136-B	
N9BBM	111,792-274-136-B	
NM9C	101,616-292-116-B	
WB9TIY	66,300-221-100-C	
WD9FEN	53,592-203-88-C	
KA9HDN	26,019-147-59-B	
AD9K	20,160-105-64-B	
W9LYN	18,414-99-62-B	
WD9DDO	7,560-60-42-B	
W9HQW	6,936-68-34-C	
W9REC	5,616-52-36-B	
WD9DYR	2,688-32-28-C	
K9PFG	1,260-21-20-A	
W9CH	30,720-160-64-C-40	
KK9L	73,458-318-77-C-20	
K9RHY	50,481-213-79-C-20	
WB9MLY	14,229-93-51-C-20	
WB9WQG	5,100-50-34-C-20	
WD9GGY	663-17-13-B-20	
K9MDG	236,532-857-92-C-10	
K9HMB	88,917-277-107-C-10	
K9EG	45,198-279-54-C-10	
KB9CRJ (N/T)	15,651-47-47-C-10	
KB9DAF (N/T)	8,550-75-38-B-10	
KE9UJ	5,046-58-29-B-10	
KB9CRY (N/T)	4,590-51-30-B-10	
N9IUA (N/T)	3,726-46-27-C-10	
N9GXW (N/T)	1,740-29-20-B-10	
KA9WUR (N/T)	792-22-12-B-10	
KB9CEQ (N/T)	702-18-13-B-10	
N9IQV (N/T)	300-20-5-B-10	
Indiana		
W9RE	3,196,620-2478-430-C	
W9OZ	758,016-987-256-B	
W9NSZ	639,600-1040-205-C	
KB9C	318,432-496-214-C	
KD9HT	310,170-490-211-C	
AG9S	125,070-379-110-C	
NT9O	110,856-298-124-B	
W9JOO	27,492-158-58-B-20	
K9JD (KK9V,op)		
	353,199-973-121-C-15	
W9RKE	33,108-178-62-B-15	
N9EHQ	60,984-264-77-C-10	
KB9BGV (N/T)	37,170-177-70-C-10	
Wisconsin		
W9OP	845,460-1220-231-C	
W9GXR	437,805-705-207-C	
NG9L	306,627-571-179-B	
W9NA	213,528-434-164-C	
W9BCV	194,625-375-173-C	
WB9CXY	79,200-240-110-C	
W9RZV	37,575-167-75-B	
WA9TZE	26,775-119-75-C	
W9W1	21,255-109-65-B	
AJ9K	8,610-70-41-B	
N9IYO	2,553-37-23-C	
W9YCV	192-8-8-C	
K9CAN	99,465-349-95-C-20	
K9YNF	51,282-231-74-C-20	
N9ER	95,718-371-86-C-15	
K9BL	445,395-1291-115-C-10	
W9XT	392,223-1157-113-C-10	
K9DXO	47,322-239-66-B-10	
W9NWy (N/T)	10,200-85-40-B-10	
KA9NTO (N/T)	957-29-11-B-10	
0		
Colorado		
K9RF (W9UA,op)		
	2,578,950-2605-330-C	
K9CS	896,550-1390-215-C	
N9ZA	474,192-712-222-C	
K9BQL	401,835-623-215-C	
K9GAS	379,260-645-196-C	
W9UO	322,599-563-191-A	
KK9L	280,368-531-176-C	
KD9NB	118,608-353-112-B	
N9TK	100,737-287-117-C	
NY9R	47,472-184-86-C	
N9EPF	34,692-196-59-B	
NN9M	20,448-142-48-C	
WB9WJ	13,416-86-52-B	
W9ZV	544,236-1364-133-C-20	
N2IC9	617,040-1714-120-C-10	
AC9S	73,365-365-67-C-10	
Iowa		
W9EJ	1,125,327-1307-287-C	
K9GM	202,560-422-160-C	
WB9PF	162,864-348-156-C	
KZ9C	84,249-253-111-B	
WA9DCB	20,700-115-60-C	
N9DGE	12,726-101-42-C	
WB9B	6,771-61-37-B	
K9GT	1,404-26-18-C-80	
Kansas		
WB9YJ	247,005-499-185-B	
WB9AUQ	41,850-186-75-B	

W9WPL	28,674-1018-81-B	
WB5PF	26,100-145-60-B	
KA9SX	17,712-123-48-B	
K9KWC	16,575-85-65-C	
NK9SC (N/T)	62,580-298-70-B-10	
NO9Y	192-8-8-A-10	
Minnesota		
N9AT	1,184,736-1312-301-C	
AC9W	489,294-738-221-B	
WB9GGM	187,995-415-151-B	
W9ML	126,840-302-140-C	
W9BF	113,400-315-120-C	
KE9KB	99,225-245-135-A	
W9LP	42,336-147-96-C	
WB9DXV	15,000-100-50-B-15	
Missouri		
KA9GGI	522,936-648-269-C	
K9WJ	386,496-704-183-C	
W9JH	178,875-375-159-C	
KM9L	159,273-347-153-C	
W9PKO	45,105-155-97-C	
KA9CBX	20,790-99-70-B	
K9GEI	3,960-40-33-C	
KA9P	2,025-27-25-B	
W9OG	552,636-1428-129-C-15	
K4VX	366,000-1220-100-C-10	
WB9GFV	19,716-124-53-B-10	
W9YZZ	13,920-116-40-B-10	
North Dakota		
WB9O	92,448-288-107-C	
NM9N	74,520-216-115-C	
W9CAQ	26,532-132-67-C	
KE9QT	1,173-23-17-B	
Nebraska		
K9SW	48,600-200-81-C	
W20L	1,536-32-16-B	
W9OLL	4,176-58-24-C-10	
South Dakota		
K9TFP	574,758-863-222-C	
K9DEE	338,976-628-214-C	
W9ACT	111,228-299-124-C	
VE		
Maritime-Newfoundland		
VO1MP	1,901,880-1761-360-C	
VY2ZV	123,000-410-100-C	
Quebec		
VE2AWR	6,201-53-39-C	
VE2EW	23,400-150-52-C-15	
VE2XL	36,432-184-66-B-10	
VE2GUZ	10,175-185-55-C-10	
Ontario		
CF25A	792,960-1180-224-C	
VE3BXV	376,320-560-224-C	
VE3MSN	137,061-291-157-C	
VE3TJL	14,940-83-60-B	
VE3OMU	5,775-55-35-B	
VE3CUI	27-3-3-C-80	
VE3NYT	13,872-68-68-B-15	
VE3FWQ	201,300-871-100-C-10	
VE3VET	87,204-338-86-C-10	
VE3PLC	67,068-276-81-C-10	
VE3HX	14,076-102-46-C-10	
Manitoba		
VE4JB	150,510-346-145-C	
Saskatchewan		
VE5FX	588,672-876-224-C	
Alberta		
VE6SH	16,587-97-57-A	
VE6CWW	2,242-56-19-C	
VE6MAA	18,144-144-42-A-10	
British Columbia		
VE5RA/7	773,793-1107-233-C	
VE7HBQ	43,176-257-56-B	
VE7XO	1,638-42-13-C-40	
VE7EKS	1,836-36-17-A-10	
Single Operator, Assisted		
K1AR	3,831,828-2639-484-C	
K1DG	2,687,370-2345-382-C	
K1TO	2,555,145-2103-405-C	
N1TZ	983,382-1054-311-C	
K1KP	851,508-868-327-C	
K9BPE	655,188-789-284-C	
NO1I	394,680-506-260-C	
K1BG	372,645-455-273-C	
WA1UAR	369,018-498-247-C	
W1BK	342,504-536-213-C	
NQ1K	320,400-445-240-C	
W1WEF	200,679-443-151-C	
KA1LSZ	177,300-300-197-C	
NX1G	153,456-368-139-C	
AD1C	148,782-274-181-B	
KV1J	81,720-227-120-C	
KZ1D	81,378-274-99-C	
A13E	52,704-183-96-C	
KA1ERL	20,250-90-75-C	
N1AU	16,832-99-56-C	
N1HFI (N/T)	7,605-65-39-B	
WA1YUA	6,195-59-35-C	

2		
WB2P	2,221,380-1763-420-C	
WB2K	1,472,580-1212-405-C	
N2VW	897,102-898-333-C	
KD2NC	521,916-713-244-C	
N2AIF	342,108-516-221-C	
WR2G	322,505-557-193-C	
W2REH	215,460-399-180-C	
KF2U	188,856-344-183-C	
WK2H	165,816-392-141-C	
K2SB	126,684-276-153-C	
W2GMA	37,884-154-82-B	
W2GD	30,720-128-80-C	
KN2Q	390-13-10-C	
3		
N3AD	3,146,880-2394-440-C	
K3WW	3,101,934-2186-473-C	
K3IPK	2,398,656-1922-416-C	
W3USS (WB2EKK,op)		
	2,210,375-1775-395-C	
NM2Y	1,636,362-1443-378-C	
N2BQ	1,322,140-1307-340-C	
W3UJM	1,204,032-1188-338-C	
N3JL	910,635-963-315-C	
NW3Y	902,664-1194-252-C	
N3EC	722,742-739-326-C	
K3UA	654,048-757-288-C	
WB3FYL	647,838-774-279-C	
N3RR	610,470-714-285-C	
KD3CN	519,480-740-234-C	
K3ND	444,996-564-263-C	
K3YGU	440,880-688-220-C	
K3DI	411,570-538-255-C	
W3MA	403,596-606-222-C	
NK3U	317,730-445-238-C	
WB3CWH	300,966-487-206-C	
K2D0X/3	298,188-396-251-C	
K3VK	295,470-490-201-C	
KW3Z	273,951-489-183-C	
K8IR/3	206,280-380-191-B	
NV3V	173,799-369-157-C	
K3SA	88,500-250-118-C	
N3EYB	43,332-157-92-B	
W3GBG	25,344-132-64-B	
N8CQ/3	10,350-69-50-C	
NU3Y	3,567-41-29-B	
4		
N4GVF	405,216-603-224-C	
N4RE	259,085-515-213-C	
K1ZZI	303,030-370-273-C	
W4JVN	192,510-345-186-C	
W3YV	100,965-285-127-C	
N3RC	43,068-154-97-C	
5		
WM5G (KR8Y,op)		
	3,902,892-2716-479-C	
K5XI	1,296,318-1207-358-C	
N5GM	642,600-900-238-C	
AG5S	390,600-700-186-C	
K5EJW	328,008-422-188-C	
WB5NSA	148,584-328-151-C	
K5VK	144,111-397-121-C	
N3BB/5	114,912-252-152-C	
6		
W6AG	1,509,228-1484-339-C	
W6ZG	1,282,899-1349-317-C	
WX6M	623,007-899-231-C	
AE6E	614,127-761-269-C	
N6CCL	517,188-658-262-C	
W6TG	379,452-614-206-C	
W6ISQ	378,432-657-192-C	
K6MA	341,124-524-217-C	
W6BIP	313,152-466-224-C	
WB6GFJ	194,502-421-154-C	
N6IP	185,724-462-134-C	
W6BLLY/6	169,338-334-169-B	
WB2CHO/6	111,972-302-124-C	
W6OAT	99,066-209-158-C	
N3AHA	97,200-270-120-B	
AA6JJ	89,232-208-143-C	
WW6I	79,586-239-104-C	
KG6MI	68,736-179-128-C	
W6BY	57,420-174-110-C	
KJ6LD	55,440-154-120-C	
A16L	53,784-166-108-C	
NT6G	8,580-55-52-C	
KA6ING (N/T)	3,840-40-32-B	
W9NQ/6	3,600-40-30-C	
7		
K3IV/7	1,919,151-1833-349-C	
A17B	1,867,212-1921-324-C	
NX7K	316,173-871-121-C	
N7KZN	220,614-443-166-B	
NC7K	206,850-394-175-B	
8		
K8MR	817,704-984-277-C	
N8MD	805,335-1028-265-C	
K8XC	343,824-551-208-C	
K8QM	177,000-244-235-B	
AF8C	50,298-166-101-B	
N8BC	12,600-75-56-C	
9		
WD9DIG	370,260-484-255-C	
K9OSH	117,936-378-104-C	
K9CC	20,856-88-79-C	
0		
WB8ZRL	353,805-515-229-C	
WB8OK	334,320-560-199-C	
NC8O	21,600-100-72-C	

Multioperator		
Single Transmitter		
1		
KA1GG (+K1KJT,N1s AVA,ZE, W1GM,WD1N)	2,670,336-2318-384-C	
K1VR (+K1IR,N1IR,KM3T)	1,957,620-1652-395-C	
KZ1M (+KB1RI)	1,670,214-1729-322-C	
AA1V (+KS1C,NO1J,WB1S)	1,422,720-1482-320-C	
NC1B (+NR1L)	1,237,761-1239-333-C	
AK1L (+KA1s FBY,X,WB1H)	1,050,405-1195-293-C	
WB1DGV (+K8PO)	867,438-1011-286-C	
W1AF (KA1s SSQ,UTX,UZF,KC1s SW,SY, K01O,N1HNN,NZ1W,WCF1,KA2MUE, W2KOY,K3UCO,W8CGK,WA7WFZ, K0WVX,ops) 804,000-800-335-C		
K1SSN (KD3HN,WB7EZO,ops)	603,174-814-247-C	
W1FY (KA1s NRD,USL,UUD,W1IBN, W1/G4DZC,ops)	158,097-349-151-C	
NM1K (+KA1s VEC,VED)	12,540-82-51-A	
KA1UCC (+WB1EA)	2,415-35-23-C	
2		
N2NU (+K2WI,WA21UO)	2,499,384-1868-446-C	

Ivory Coast		JM1SMY	66,600-444-50-B-10	DJ1ZU	165,000-1000-55-C-10	I4RHP	303,354-1774-57-C-10	OZ1ACB	15,960-140-38-B-10
TU2UI	34,224-184-62-B	JA1QZC	52,380-388-45-B-10	DJ8XB	22,140-180-41-B-10	I2PJA	299,079-1749-57-C-10	OZ1LDM	9,975-95-35-B-10
Burkina Faso		JA8RJE	42,018-298-47-B-10	DL1MAC	4,290-65-22-C-10	IN3QBR	270,180-1580-57-C-10	OZ1FMO	3,498-53-22-B-10
XT2BW	43,065-261-55-B	JA5DCL	35,772-271-44-B-10	Spain		IV3TQE	265,392-1552-57-C-10	Netherlands	
South Africa		JA1KFX	33,516-286-42-B-10	ED7GK	1,104,300-2045-180-B	IK2AEQ	175,617-1027-57-B-10	G4SYD/PA	851,580-1494-190-C
ZS8HO	33,696-156-72-C	JR4GPA	32,766-254-43-B-10	ED4KK	544,620-1252-145-B	IV3BVM	86,022-531-54-C-10	PA6KDM	150,177-443-13-B
Tanzania		JF2GYH	24,108-196-41-B-10	EA7GF	331,200-690-160-B	IK6CNA	42,930-318-45-C-10	PA2JCG	43,734-197-74-B
5H3TW (K3TW,op)	1,624,656-3077-176-C	JA6EFT	21,360-178-40-B-10	EA1CON	448,862-703-118-B	IK6NMI	21,672-172-42-C-10	PA3ELD	31,758-158-67-B
Kenya		JR7CDL	17,958-146-41-B-10	EA7BHO	231,852-556-139-B	IK6FUX	14,274-122-39-B-10	PA6DJ	16,085-105-51-B
5Z4FO	388,332-966-134-B	JA1PUK	13,764-124-37-B-10	EA7FUR	207,081-519-133-C	I4CSP	12,480-104-40-B-10	PA3DWA	13,635-101-45-A
Lesotho		JH8DHW	13,632-142-32-B-10	EA2IA	160,992-516-104-C	Sardinia		PA3EXJ	12,380-103-40-A
7P8EB	189,840-560-113-B	JA1SVJ	12,360-103-40-B-10	EA1CVV	91,476-363-84-B	IS0LLJ	15,510-110-47-B	PA6CF	12,006-87-46-B
Zambia		JF2KJU	8,928-96-31-B-10	EA5DCL	75,492-466-54-B	Norway		PA6YU	9,024-94-32-B
9J2AL	107,952-692-52-C-10	JH8UQJ	7,830-90-29-B-10	EA3GJ	70,602-287-82-B	LA4TE	394,800-940-140-C	PA6KHM	4,998-49-34-B
Asia		JE2IFM	6,045-65-31-B-10	EA5CPH	51,030-210-81-B	LA0FV	139,503-511-91-C	PA6DMM	2,442-37-22-C
Saudi Arabia		JA6ODU	5,544-66-28-B-10	EA3NA	45,840-191-80-B	LA2AD	21,462-146-49-B	PA3EPN	4,507-313-48-C-40
HZ1HZ	195,264-576-113-C	JA5EO	5,490-61-30-B-10	EA5JC	35,424-144-82-B	LA9W0	20,352-128-53-C	PA6QX	103,194-637-54-C-15
Japan		JE8PHS	4,899-71-23-B-10	EA5CGU	33,534-138-81-B	LA1KQ	17,940-130-46-B	PA6BFO	10,176-106-32-B-15
JABRWU	1,903,824-3051-208-C	JA3GLU	4,131-81-17-B-10	EA7BYM	27,972-148-63-B	LA1X0	14,652-111-44-A	PA3BZV	38,514-262-49-B-10
JH1AEP	1,512,414-2302-219-C	JU1RBF/7	2,295-45-17-A-10	EA1EWW	20,943-179-39-B	LA5KK	9,603-97-33-B	PA2REH	2,967-43-23-B-10
JH7WKQ	1,190,925-1975-201-C	JH1PXV	1,392-29-16-B-10	EA1AW	20,085-103-65-B	LA3YA	149,118-857-58-C-20	Sweden	
JA7SGV	1,118,496-1952-191-C	JO1MCC	756-18-14-B-10	EA3EJ	17,901-117-51-B	LA7MFA	10,098-102-33-C-20	SK6LM	814,215-1751-155-C
JR1GSE	650,934-1247-174-C	JR7BKB	432-16-9-B-10	EA5FJ	14,178-139-34-B	LA9WH	158,424-943-56-B-10	SM3CER	362,610-765-158-C
JR3BOT	606,825-1305-155-C	JA1VW	324-18-6-B-10	EA5EFV	12,474-77-54-B	LA4YW	59,059-386-51-B-10	SM4SET	113,825-505-75-B
JANMT	583,680-1280-152-C	Ogasawara		EA3DLO	7,437-67-37-C	LA5JX	33,769-268-42-A-10	SM6BDS	93,888-326-96-B
JALDH	301,875-805-125-B	JL1BYZ/JD1	38,640-184-70-B	EA3GCV	6,930-70-33-C	LA9DFA	30,114-239-42-B-10	SK3AH (SM3COL,op)	92,925-295-105-C
JEDOT	202,950-550-123-B	Jordan		EA1AHA	6,888-82-28-B	LA3JT	22,920-191-40-B-10	SM6HTO	48,600-324-50-C
JH1UUT	133,278-458-97-B	JY9SR	70,080-320-73-B	EA1DFH	4,125-55-25-B	LA1PHA	17,484-124-47-B-10	SMSDAC	47,742-218-73-C
JAZ5R	108,888-349-104-A	Asiatic RSFSR		EA1AK	23,186-234-33-B-40	Bulgaria		SM2TEZ	41,981-197-71-B
JJ2SF	84,600-300-94-B	RXBJ	297,432-918-108-C	EA3EXW	5,865-85-23-B-20	LZ2WM	316,365-805-131-B	SM4BTF	32,796-176-62-C
J1HHX/2	79,443-291-91-B	UA9OS	46,230-230-67-C	EA3KT	20,202-182-37-B-15	LZ1KNP	51,246-219-78-B	SM5PPS	19,584-128-51-B
JA1OLT	75,858-269-94-B	UW9CW	23,814-147-54-B	EA1BCU	8,832-92-32-B-15	LZ1OR	37,881-183-69-B	SM7BZ	14,445-107-45-B
JA7VSO	62,886-223-94-C	UZ9CYP	23,055-145-53-C	EA3GBU	136,500-875-52-C-10	LZ1KOZ	756-21-12-C-160	SM8BV	6,510-62-35-C
JASIP	58,050-225-86-C	UA9FI	15,840-110-48-B	EA3CZM	84,525-578-49-B-10	LZ1KXA (LZ3Z,op)	48,336-424-38-C-40	SM5ARR	495-15-11-B
JAZOJ	52,122-238-73-C	UA9SN	2,346-34-23-C	EA4CRU	18,488-182-38-A-10	LZ5W	367,629-2077-59-C-15	SM6BBJ	144,837-847-57-B-10
JA3UWB	48,906-247-66-B	UW9LA	176,643-1033-57-B-20	EA1YY	7,968-83-32-B-10	LZ6G (LZ2RS,op)	131,328-768-57-B-10	SM5BDA	38,709-253-51-B-10
JH8FTJ	43,740-243-60-B	UA9FM	105,336-627-56-C-20	Ireland		LZ5N	74,934-543-46-C-10	SM6MVL	11,400-100-38-B-10
JH7AD/1	36,504-169-72-B	UA9GX	110,376-657-56-B-15	E1BAU	60,945-239-85-A	LZ1V (LZ3Z,op)	2,640-40-22-B-10	SM3QAV	7,308-87-28-C-10
JP1SRG	34,404-188-61-B	UA9DD	98,598-646-51-C-15	France		Aland Island		SM6HR	4,425-59-25-B-10
JAZONH	24,339-133-61-B	UA9CB	23,598-171-46-B-15	F2CW	2,428,596-3582-226-C	OH8PA	12,816-89-48-B	SM6FR	2,646-49-18-B-10
JAADUD	19,320-115-56-B	UA9CL	20,064-152-44-B-15	F6A0J	1,276,128-2016-211-C	Finland		Poland	
JA1ASO	19,080-106-60-B	UA9CU	1,995-35-19-B-10	FV8NDX	315,735-679-155-C	OH1AD (OH1WZ,op)	1,872,276-2876-217-C	SP9PT	133,245-423-105-C
JR8FLY	18,018-154-39-B	UA9CA	189,378-1169-54-C-10	F1BEG	122,715-405-101-A	OH6YF	1,728,610-3033-190-C	SP4GFG	93,492-318-98-B
JR7LJK	12,810-122-35-B	UA9FF	15-5-1-B-10	FE8DRP	53,970-257-70-B	OH8SU	73,158-274-89-B	SP3BYZ	79,936-299-88-B
JF1NZW	11,808-96-41-C	Armenia		F8WE	36,783-201-61-B	OH2BLV	27,450-150-61-C	SP8DVP	21,870-135-54-B
JR1TLA	10,080-84-40-B	UG6J	17,010-105-54-B	F8ENT	33,654-142-70-B	OH7NW	26,169-143-61-B	SP9RQJ	17,100-114-50-B
JR6CM	7,548-74-34-B	Tadzhikistan		F8LUM	3,657-53-23-B	OH1MM	5,220-60-29-B	SP8RUV	17,000-114-50-B
JR1MRG	7,482-86-29-B	UJ8KA	40,572-294-46-C-20	F1HWW	5,586-64-28-B-15	OH1MDR	108-6-6-B	SP9RQJ	7,752-68-38-B
JL2RQH	7,098-91-26-B	Kazakhstan		F1JND	1,125-25-15-B-15	OH2PM	281,696-1504-55-C-20	SP4KLV	4,392-61-24-C
JA1BU	6,438-58-37-B	UL7CC	4,002-46-29-C	F5IN	66,096-432-61-C-10	OH8LQ	100,485-609-58-C-20	SP8LW/A	5,037-73-23-B-20
JR1GGB	6,324-68-31-B	UL7OB	20,094-187-34-C-10	F1JDM	22,800-200-38-B-10	OH5OL	4,140-60-23-C-10	SP2HND	1,599-41-13-B-20
JA1GBA	5,664-59-32-B	UL8WF	5,313-77-23-C-10	F1JOG	3,096-43-24-B-10	OH6NO	212,895-1245-57-C-15	SP4MIA	9,278-608-51-B-15
JR1GMJ	5,208-62-28-B	RL7RL	1,326-34-13-B-10	England		OH8NY	3,588-52-23-B-15	SP8QI/7	9,718-608-51-B-15
JR1GMJ	5,208-62-28-B	UL9DN	672-28-8-B-10	G4XKX	59,676-1052-171-B	OH1MI	103,350-650-53-B-10	SP3RBI	24,231-197-41-A-15
JEBTL	5,082-77-22-B	Kirghizia		G4XOM/P	15,180-115-44-B	OH6MFM	64,950-433-50-B-10	SP8NCJ	19,656-182-38-C-15
JA2FNY/1	4,941-61-27-B	UM9MO	113,712-412-92-C	G3VXM	376,014-2161-58-C-20	OH4MCD	14,742-126-39-C-10	SP2PK	14,175-135-35-B-10
JH1RMH	4,455-55-27-B	UM9TWA	58,506-398-49-C	G4UUD	297,198-1738-57-C-10	OH3WC	12,075-115-35-B-10	SP6TBM	240-10-8-B-15
JASMPX	3,135-55-19-B	UM9MTA	288-12-8-C-15	G4JDU	270,522-1582-57-C-10	OH2MKX	12,075-115-35-B-10	SP5PBE (SP5JTF,op)	119,184-764-52-B-10
JASMPX	3,135-55-19-B	UM9MGM	2,064-43-16-B-10	Scotland		OH6GD	6,960-80-29-C-10	SP2FAP	25,929-615-55-C-10
JG1RDV	2,808-36-28-B	Hong Kong		G4QJH	251,877-743-113-C	OH4NQC	1,680-35-16-B-10	SP8BJJ	3,180-53-20-B-10
JR1TFR	2,109-37-19-B	VS6WO (NA9P,op)	77,724-381-68-C	G4M3CL	138,651-409-113-B	OH2MJC	264-11-8-B-10	Greece	
JA6BWH	1,998-37-18-B	India		G4M4OB	3,120-52-20-B-160	OH6MIL	144-8-6-B-10	SV1NA	5,673-61-31-A
JA2QVP	1,539-27-19-C	VU2NBT (AA4U,op)	10,824-88-41-C	G4M4CHX	64,428-413-52-B-10	Czechoslovakia		Franz Josef Land	
JABDXO	600-20-10-B	VU2GDU	43,824-332-44-B-10	Wales		OK1ALW	2,835,294-3971-238-C	4K2OIL	78,705-495-53-C-20
JR8NBW	312-13-8-A	VU2UR	2,280-40-19-B-10	GW5NF	132,867-777-57-C-15	OK1KZ	80,868-293-92-B	4K2OT	220,077-1287-57-C-15
JH7HOD	120-8-5-A	Europe		GW4BLE	459,819-2689-57-C-10	OK1DGT	78,396-278-94-B	Kaliningrad	
JASBK	4,692-92-17-C-80	Portugal		GW4BARK	445,968-2608-57-C-10	OK1DKS	43,260-206-70-A	UA2EC	10,416-112-31-B-15
JY2YAC	62,550-417-50-B-40	CT1QF	56,316-247-76-B	Hungary		OK1DXW	41,814-202-69-B	European Russian RSFSR	
JQ1NGT	24-4-2-B-40	CT1BWW	15,840-132-40-B	HA8XX	89,700-325-92-B	OK2BHM	34,686-246-47-B	UV3DF	155,103-533-97-C
JANFO	147,168-876-56-C-20	CT1AOZ	8,004-92-29-C-160	HA4XX	17,010-135-42-B	OK2HBY	5,382-69-26-B	UV3GM	75,366-318-79-C
JH1NBN	129,890-786-55-C-20	CT1DGK	8,925-119-25-B-80	HA8LC	136,290-826-55-C-15	OK2IDG	6,277-19-11-A	UA3NCI	47,088-218-72-C
JA9QNJ	82,620-510-54-C-20	CT1CQB	215,412-1238-58-C-20	HA3FL	3,000-50-20-B-15	OK2HBY	5,382-69-26-B	UA4ANC	22,875-125-61-C
JA1BAX	27,972-222-42-C-20	CT1BOP	438,828-2522-58-C-15	HA1XR	278,574-1601-58-C-10	OK2BAP	6,277-19-11-A	UA4ACM	5,856-61-32-B
JG3KV	8,190-85-32-B-20	CO5T (CT1DTH,op)	446,823-2613-57-C-10	HA8DR	265,104-1578-56-C-10	OK3CXS	1,386-33-14-B-20	UZ6LZL (UA6-150-847,op)	5,671-103-19-B-40
JAEJJI	3,024-42-24-C-20	CT1AHU	133,320-808-55-B-10	HA5HO	95,040-576-55-C-10	OK3YDP	855-19-15-B-20	UA6LTI	30-5-2-B-40
JATMY	1,458-27-18-B-20	CT1DIZ	54,144-384-47-B-10	Switzerland		OK3KAG	185,319-1047-59-B-15	UA3DRB	79,559-501-53-C-20
JET1ZB	1,122-22-17-B-20	CT4HEV/CT1	31,860-236-45-B-10	HB9DD	190,512-504-126-A	OK2HBY	141,810-815-58-B-15	RA4LV	46,230-335-46-C-20
JA1YXP (JO1JQZ,op)	228,746-1326-57-C-15	CT4HA	11,025-105-35-B-10	Liechtenstein		OK1DID	39,621-281-47-B-15	UA1ANA	8,700-100-29-B-20
JH7AFR	179,280-1245-48-C-15	Azores		HB9WBH/L	82,656-336-82-B	OK2PCL	22,113-189-39-B-15	UA3PNN	6,438-74-29-B-20
JAS3ZY	158,166-909-59-C-15	CU2AF	69,690-505-46-C-80	Italy		OK3YCA	18,012-158-38		

UB5JG	144,180-	801- 60- C -15	
UB5PAW	124,410-	715- 58- B -15	
UT4UJ	108,054-	667- 54- C -15	
RB5GW	83,475-	525- 53- C -15	
RB5TK	5,022-	62- 27- B -15	
RB5ICV	3,060-	51- 20- B -15	
RB5VA	293,664-	1748- 56- C -10	
UB5IFB	23,124-	188- 41- A -10	
UB4UJF	10,881-	117- 31- B -10	
UB4AJR	8,217-	83- 33- B -10	
RB5UQ	7,704-	107- 24- C -10	
UB5FBG	7,569-	87- 29- B -10	
UB5VDA	5,475-	73- 25- B -10	
UB5VAP	2,394-	42- 19- B -10	
Byelorussia			
UC2LB	210-	10- 7- C -80	
RC2AZ	13,182-	169- 26- C -40	
UC2AB	8,352-	96- 29- B -10	
Moldavia			
RO4OW	44,712-	207- 72- B	
UO5ON	42,813-	213- 67- C	
RO5OO	17,088-	178- 32- C -20	
Lithuania			
LY3BH	963,336-	1804-178- C	
LY3PBG	7,623-	77- 33- A	
LY2BTA	247,950-	1450- 57- B -15	
LY2BPN	24,066-	191- 42- B -10	
Latvia			
YL1WW	2,350,881-	3679-213- C	
YL2II	2,451-	43- 19- B	
YL1WC	114,408-	681- 56- C -20	
YL2LW	43,005-	305- 47- C -10	
UQ2GTF	40,590-	330- 41- B -10	
Estonia			
ES1RA	260,406-	782-111- C	
ES2RJ	41,310-	306- 45- C -40	
ES4NG	4,320-	60- 24- B -10	
UR2RER	270-	10- 9- C -20	
ES2RR	315,636-	1814- 58- C -15	
German Democratic Republic			
Y22WF	237,363-	623-127- B	
Y49LF	88,452-	324- 91- B	
Y31EM	60,522-	262- 77- B	
Y72SL	51,480-	195- 88- B	
Y56VF	40,002-	226- 59- C	
Y67UL	16,224-	104- 52- B	
Y23TN	15,960-	95- 56- B	
Y32WF	7,029-	71- 33- C	
Y33UL	576-	16- 12- C-160	
Y24XA	16,029-	137- 39- B -15	
Y34XF	4,752-	66- 24- B -15	
Y33VL	166,992-	994- 56- C -10	
Y22JJ	133,164-	822- 54- C -10	
Y24GE	71,400-	425- 56- B -10	
Y32EE	31,968-	222- 48- B -10	
Y21LFP	2,460-	41- 20- B -10	
Y32RD	1,440-	32- 15- B -10	
Y26KL	828-	23- 12- B -10	
Y25ML	594-	22- 9- B -10	
Romania			
YO9DIA	47,163-	199- 79- B	
YO3DCO	19,710-	146- 45- C	
YO9HP	9,486-	102- 31- C -20	
YO9AHX	936-	24- 13- B -15	
YO8ROU	2,160-	40- 18- B -10	
Yugoslavia			
YU3DAS	37,536-	184- 68- B	
YU1EXY	62,235-	461- 45- C -80	
4N1A	23,532-	212- 37- C -80	
YU3QI	2,295-	51- 15- C -80	
YU7AV	17,226-	174- 33- C -40	
YU1KQ	367,137-	2147- 57- C -20	
Y3IE	339,300-	1950- 58- C -20	
YT3T	333,558-	1917- 58- C -20	
YZ7V (YU7ECD,op)	262,827-	1537- 57- C -20	
YU7FT	4,761-	89- 23- C -20	
YZ3A (YU3WE,op)	300,060-	1667- 60- C -15	
YU2MP	55,584-	386- 48- C -15	
YU3FW	450,576-	2682- 56- C -10	
4N4I	335,820-	1930- 58- C -10	
YU2W	335,502-	1962- 57- C -10	
YT4D	315,000-	1875- 56- C -10	
YZ2S	295,104-	1696- 58- C -10	
YT3SW	214,434-	1254- 57- C -10	
YU1JW	127,518-	802- 53- C -10	
YU7SF	19,920-	166- 40- C -10	
YU7KM	1,890-	35- 18- C -10	
North America			
Guadeloupe			
FG5R (W7EJ,op)	6,468,489-	6933-311- C	
FG5KA3DSW	3,181,572-	3972-267- C	
Martinique			
FM5CD	1,314,048-	1856-236- C	
Dominican Republic			
H1BLUZ	250,992-	1494- 56- B	
JP1DMX/H1B	3-	1- B-160	
H1BRFB	29,184-	256- 38- B -20	
Panama			
HP1COO	52,272-	396- 44- B -10	
St Lucia			
J6LSN (KJ8G,op)	1,686,000-	2248-250- C	
Alaska			
AL7CQ	2,481,276-	3794-218- C	
NL7GP	71,370-	305- 78- C	
NL7RA	41,088-	214- 64- B	
WL7BIL	10,695-	115- 31- C -80	
WL7ZE	390,735-	2285- 57- C -10	
Virgin Islands			
K1DQV/KP2	4,048,023-	4669-289- C	
Puerto Rico			
KP4FP	319,770-	1870- 57- B -20	
NP4CC	497,292-	2858- 58- C -15	
WP4WD	132,888-	791- 56- B -10	
Guatemala			
TG9AJR	81,855-	535- 51- B -40	
Costa Rica			
TI2DU	4,834,200-	5755-280- C	
Antigua and Barbuda			
V2/G6QQ	3,807-	47- 27- B	
Turks and Caicos Islands			
VP5JM	1,665,711-	2907-191- B	
Mexico			
XE2GAT	389,484-	698-186- B	
XE1AVM	2,952-	41- 24- B -20	
XE1BEF	62,514-	453- 46- B -10	
XE2HWH	13,110-	115- 38- B -10	
Cayman Islands			
ZF2NE/ZF8	2,598,096-	3832-226- B	
ZF20Z	376,992-	714-176- B	
Barbados			
8P6SH	272,136-	1564- 58- B -15	
Oceania			
Philippines			
KE9A/DU3	101,505-	505- 67- C	
N7DF/KH2	4,335-	85- 17- C -80	
KH2D	167,088-	944- 59- C -10	
Johnston Island			
AH3C	5,042,880-	5440-309- C	
Hawaiian Islands			
WR6R/KH6	4,312,122-	4682-307- C	
NH6T	115,239-	359-107- A	
KH6DLW	179,256-	1067- 56- B -10	
NH6SR	117,450-	725- 54- C -10	
KH6FQ (NT)	78,375-	475- 55- B -10	
Marshall Islands			
V73AQ	764,595-	1307-195- C	
Eastern Kiribati			
T32AF	141,075-	855- 55- C -80	
Federal States of Micronesia			
V63AA (KB3R,op)	6,048-	63- 32- B	
Australia			
VK2AYK	59,436-	254- 78- C	
VK5GN	40,803-	203- 67- B	
VK2GAH	16,416-	152- 36- B -10	
Indonesia			
YB3ASQ	626,751-	1251-167- C	
YB2FR	273,750-	730-125- C	
YC2AB	8,112-	104- 26- B -15	
YC2BKJ	6,942-	89- 26- B -15	
YC2JWB	5,070-	85- 26- B -15	
YC2OK	1,008-	21- 16- A -15	
YC3OSE	32,736-	248- 44- B -10	
YB2CTW	25,542-	198- 43- C -10	
YQ0RBG	25,155-	215- 39- B -10	
New Zealand			
ZM1IM	29,280-	160- 61- B	
Western Samoa			
5W1HK	2,277,516-	3581-212- C	
South America			
Chile			
CE4MWK	807,570-	1994-135- C	
CE6EZ	281,532-	1618- 58- C -20	
Bolivia			
CP1FF	103,095-	395- 87- B	
French Guiana			
FY4FC	1,124,907-	2329-161- B	
Ecuador			
HC1CYB	1,249,704-	2042-204- C	
HC1HC	459,708-	2642- 58- C -15	
HC1HT	132,000-	800- 55- B -15	
Colombia			
HK3JUH	1,596,456-	2334-228- C	
HK7MOC	55,404-	228- 81- B	
HK1LDG	46,494-	369- 42- C -80	
Argentina			
LU1FNH	231,492-	764-101- B	
L73GADX	85,347-	327- 87- B	
L7VID	9,288-	86- 36- C	
LY9F	185,535-	1085- 57- C -15	
LQ21DX	182,700-	1050- 58- B -15	
LZE (LU8DPY,op)	577,440-	3208- 60- C -10	
LP3F	166,320-	990- 56- B -10	
LU6EJP	131,175-	825- 53- C -10	
LQ24DX	86,424-	554- 52- B -10	
Peru			
OA4ZV	1,025,727-	1889-181- B	
Aruba			
P40V (AI6V,op)	8,031,456-	8472-316- C	
Netherlands Antilles			
PJ9JT	198,660-	1204- 55- B -15	
PJ9M (OH6RM,op)	689,130-	4030- 57- C -10	
Brazil			
PT7NK	414,963-	981-141- C	
ZW5B (PY5EG,op)	357,744-	2056- 58- C -20	
ZZ1NEZ	62,883-	411- 51- C -15	
ZX5C (PY5CC,op)	641,250-	3750- 57- C -10	
ZY3TD	56,232-	426- 44- B -10	
PT2TF	23,349-	181- 43- C -10	
Suriname			
PZ5DX	131,175-	825- 53- C -10	
Venezuela			
YV1CP	395,850-	910-145- C	
YV1DRK	12,852-	126- 34- C-160	
4M5T (YV5JBI,op)	101,736-	628- 54- C -40	
4M5Z	106,236-	681- 52- B -15	
YV6BFE	95,488-	548- 52- B -15	
4M5Y	361,704-	2153- 56- B -10	
YV1EQW	91,434-	622- 49- B -10	
YV6BXN	90,558-	559- 54- C -10	
4M7A	45,504-	318- 48- B -10	
YV1ELM	2,178-	33- 22- B -10	
Trinidad and Tobago			
9Y4BU	2,904-	44- 22- B	
Single Operator, Assisted			
Europe			
SP2UUU	24,768-	192- 43- B	
Multioperator			
Single Transmitter			
Asia			
JZ2YRD (JA2KVD,JA895,JE2EOC,JE2KVV,JI3JG,JK7JMD,ops)	1,940,088-	2824-229- C	
JA7YAA (JU3GNL,JE7s,HLZ,JZC,JE8AWL,JK8ORW,ops)	1,940,088-	2824-229- C	
JH2ZZZ (JF2JOU,JE2s,MYN,UJ1Q1BVI,ops)	1,180,728-	2116-186- C	
JA6YBR (JF1DHS,JF6DEA,JG6GMR,JK6BRB,JK6KT,ops)	455,715-	1235-123- B	
JE3ZFS (JK3HZH,JK1MCM,JO3NZW,ops)	413,860-	958-145- C	
RX9C (RW9CA,UA9CDX,UW9s,CA,CJ,CK,CM,CN,CW,ops)	1,913,160-	2980-214- B	
UZ8LWC (UW0s,LI, LZ,UA0-103-454,ops)	1,990,410-	1913-190- C	
RZ9MYA (UA0W9,UA9-146-79,ops)	332,262-	879-126- C	
UZBSXF (UA0s,SR0,124-489,UW6SN,ops)	120,270-	422- 95- B	
UZ9LWE (+ ops)	507-	13- 13- C	
UL8LWZ (RA6XA,RL7LAH,UL7-026-177,ops)	479,556-	1211-132- C	
UL8CWW (UL7s,028-283,028-291,ops)	1,980-	33- 20- C	
XX9KA (+ KU9C)	253,008-	753-112- C	
Europe			
ED3OD (EA3s,BOW,BOX,DGQ,EIO,ops)	1,454,640-	2320-209- B	
EA5RCM (EA5s,ADW,AEZ,AGB,AIF,AIE,FYA,HFM,TD,ops)	1,102,200-	1670-220- C	
ED3IN (EA3s,CCI,DMN,IN,EC3CLV,ops)	211,464-	534-132- B	
EI7M (EI3DP,EI4s,6Z,DO,SFK,SFT,EI6BT,EI8s,EI,GS,ops)	3,130,821-	4479-233- C	
EI5V (EI2s,CA,GB,EI3s,DG,GE,EI5s,DI,HD,EI6EW,EI8s,CC,CE,ops)	1,978,032-	2842-232- C	
F6CTT (+ F6s,ARC,BEE)	5,041,326-	6133-274- C	
HG1S (HA1s,AH,DAC,DAE,TJ,TW,ops)	2,984,976-	4364-228- C	
HA3KHC (+ ops)	57,750-	250- 77- C	
HB9AUS (+ HB9s,BLQ,CFU,CXZ,SFD,ZE,HE9EEX)	2,556,720-	3551-240- C	
HB9Z (HB9s,BZT,RE,ops)			
	12,096-	126- 32- B	
I2SVA (+ I2FUG)			
	1,815,660-	2882-210- C	
IK2LEW (+ IK2GWH)			
	584,568-	1412-138- C	
I4MJQ (+ I4s,GOC,MCM,IK4DDI)			
	415,656-	1004-138- C	
IK6NWD (+ IK6NWE)			
	357,000-	850-140- B	
LA1T (LA6UL,LA9s, JFA,PP,UX,ops)			
	918,873-	1587-193- C	
OE2XEL (OE2s,CHN,EJN,GEN,LCM,MON,SCM,VEL,ops)			
	1,874,313-	2961-211- C	
OH1AA (OH1s,CO,HD,JD,SY,ops)			
	689,595-	1483-155- C	
OH3GZ (+ ops)			
	1,800-	40- 15- B	
OK1OAZ (OK1FUJA,OK1-31506,ops)			
	1,655,586-	2668-207- C	
OK3KFF (+ ops)			
	1,137,405-	1985-191- C	
OK2KYC (+ ops)			
	111,744-	388- 96- B	
OK2KLI (OK2s,BKH,PLH,VIA,ops)			
	24,066-	191- 42- B	
OK1KCF (+ ops)			
	15,408-	107- 48- B	
OK3KXR (+ ops)			
	9,000-	100- 30- B	
OK2KMR (OK2s,BQZ,SSS,ops)			
	7,722-	78- 33- B	
OK2KVI (+ ops)			
	6,825-	65- 35- B	
OK2KLS (+ ops)			
	5,814-	57- 34- B	
897- 23- 13- B			
OZ7HVI (OZ1s,AXG,TV,ops)			
	84,024-	389- 72- C	
PI9IRC (PA3s,EZL,EWN,PA0HNB,DA1s,KG,KT,DA2EF,ops)			
	444,720-	1090-136- C	
SK2QG (SM2s,CFG,LIY,NOG,ODB,SM3s,SXU,TOM,ops)			
	319,194-	771-138- C	
T70A (I2s,UIY,YSB,IK2BTI,ops)			
	3,405,636-	4979-228- C	
UZ2FWA (UA2s,FAW,GEA,FF,FJ,FM,FZ,ops)			
	2,518,278-	3527-238- C	
UZ8LWE (UV8PL,UA6s,105-1403,105-1404,ops)			
	417,852-	954-146- C	
UZ3QYN (+ ops)			
	374,262-	938-133- C	
UZ3MWD (UA3s,168-50,168-308,168-1105,ops)			