

Results, 1995 ARRL International DX Contest

The DX Contest is like a box of chocolates—you never know what you're going to get.

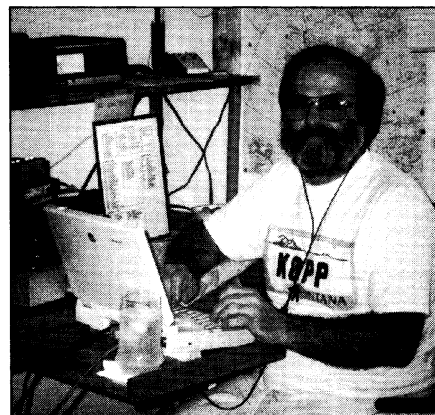
By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

The line made famous by *Forrest Gump* certainly suited the ARRL International DX Contest this year (CW, February 18-19; Phone, March 4-5)! We had great conditions and terrible ones. At times there was plenty of great DX all over the bands and at times there wasn't any at all! When the East Coast can't work Europe and the West Coast can't work Japan (and the Midwest can't seem to work *anybody*), contestants can be in for a *long* weekend. If you were on Sunday during the phone contest, then you understand what we mean. It was a long, slow, painful process for almost everybody.

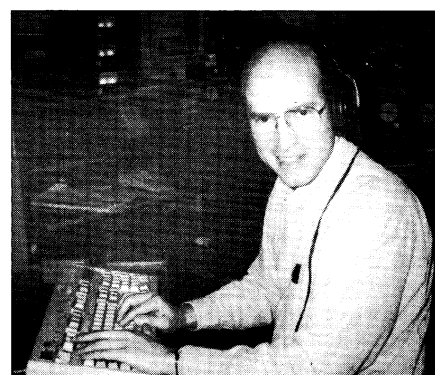
The CW contest, on the other hand, was terrific; 15 was hot! Conditions were a lot better than naysayers claimed they were going to be. The low bands were in excellent shape, too. No, we're not working as much



16-year-old William, DJ5JA, won the Under-18 CW plaque, finishing with 133,058 points. Great job!



Ken, KØPP, left the great white north of Montana for a weekend of fun and sun in the Turks & Caicos Islands.



Bob, N6TV, at K5XI, works 40-meter CW as fast as he can type.

W/V Region Leaders

Boxes list call sign, score, and power (A = QRP, B = Low Power, C = High Power).

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)		Southeast Region (Delta, Roanoke and Southeastern Divisions)		Central Region (Central and Great Lakes Divisions; Ontario Section)		Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		West Coast Region (Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)	
AA2U	522,405 A	N1CWR	101,010 A	N9LMU	67,620 A	N5NMX	79,056 A	K7FR	264,990 A
N1AFC	182,280 A	KV8S	56,430 A	WD9IAB	1,323 A	AB5OU	585 A	N7IR	169,650 A
KA1CZF	163,086 A	W4DEC	45,390 A	N9RIT	507 A			W8QZA/6	60,984 A
W2HLI	63,855 A	WF4U	13,509 A					W6IO	54,531 A
W2PTF	40,320 A							N6AZR	26,820 A
K8PO	1,465,464 B	K7SV	1,466,472 B	KB8TI	287,382 B	WV5S	484,068 B	W7YAQ	486,465 B
K2SG	1,458,522 B	AC1O	781,662 B	NA1R	286,500 B	W3GRW	178,200 B	W6JTI	393,084 B
W1PH	1,278,018 B	WD4AHZ	645,894 B	K9MMS	262,440 B	KØOAM	167,706 B	W6UQF	360,009 B
VO1MP	1,070,013 B	K5KLA	537,654 B	KJ9C	200,640 B	KE7NS	137,970 B	K6ATV	223,254 B
W2TZ	1,051,209 B	K4BAI	509,580 B	VE3IAY	180,009 B	KØSW	137,712 B	N6NF	217,008 B
KM1H (KQ2M,op)	3,694,035 C	N4RJ (KM9P,op)	2,980,350 C	W9RE	1,967,130 C	KØRF (WØUA,op)	1,931,778 C	W2VJN	589,572 C
K5ZO	3,500,656 C	KT3Y	2,550,405 C	K9MA	983,292 C	WB5VZL	914,625 C	AA6KX	569,520 C
W1KM	3,193,944 C	N6AR	1,596,672 C	WB9IIQ	701,325 C	KØKX	626,733 C	W6EEN (KA6SAR,op)	535,440 C
N2LT	2,893,428 C	W4XJ	1,404,360 C	WN9Q	592,959 C	W5UDA	542,334 C	NW6S	394,383 C
K3ZO	2,881,317 C	K4LTA	1,173,456 C	VE3KP	546,336 C	W4ETO	246,297 C	W6BIP	292,632 C
Phone		Central Region (Central and Great Lakes Divisions; Ontario Section)		Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)		West Coast Region (Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)			
Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)		Southeast Region (Delta, Roanoke and Southeastern Divisions)							
AA2U	307,638 A	K4UTE	210,672 A	N8AXA	22,410 A	KA5PVB	24,426 A	W8QZA/6	76,128 A
KA1CZF	153,000 A	N1CWR	120,012 A	WD9IAB	1,296 A			W6CN	70,560 A
NM1K	20,085 A	WA4FHQ	50,400 A					N6AZR	68,781 A
WA2ASQ	1,368 A	KV8S	35,217 A					WB6ITM	741 A
		WF4U	16,245 A						
W1PH	836,070 B	KC8FS	440,436 B	NE8I	346,179 B	NM5M	703,248 B	WA7BNM	474,525 B
W2TZ	516,672 B	N5OZB	341,658 B	N9JF	320,070 B	ACØW	356,481 B	KJ6HO	395,541 B
WS1A	464,184 B	NZ5O	274,680 B	W8RC	191,136 B	W3GRW	257,544 B	N6NF	208,152 B
WA1LNP	460,248 B	KC2X	267,030 B	VA3TA	185,832 B	AAØSQ	187,452 B	WQ7B	133,182 B
N2MR	447,453 B	KJ4WH	235,218 B	N6LYM	148,365 B	K9BQL	165,831 B	KC7DB	121,824 B
KM1H (KQ2M,op)	2,651,760 C	WZ4F	1,149,876 C	W9RE	1,978,935 C	KØKR	716,568 C	WC6H (NU6S,op)	1,237,140 C
N6BV	2,123,130 C	KF8UM	896,784 C	KW8N (KUBE,op)	1,511,454 C	KØKX	603,243 C	K6HNZ	680,295 C
K1RU	1,900,812 C	N4UJ	896,505 C	VE3RM	859,812 C	K6XO/7	371,076 C	WA7FOE	632,160 C
K3ZO	1,848,375 C	N4MM	418,122 C	N4CBR	390,339 C	WQ5Y	366,887 C	W6TKF	623,484 C
W3BGN	1,842,738 C	AA4S	403,608 C	WA9TPQ	351,948 C	K4VX	231,600 C	NB7N	608,829 C

Top 10

W/VE Single Operator, QRP, CW	Score	160	80	40	20	15	10
AA2U	518,175	K7SV	1,426,224				
K7FR	242,652	K2SG	1,422,642				
N1AFC	182,280	K8PO	1,411,410				
N7IR	169,650	W1PH	1,277,136				
KA1CZF	151,074	VO1MP	1,070,013				
N1CWR	99,846	W2TZ	1,003,242				
N5NMX	74,052	K1VUT	932,184				
N9LMU	64,296	K2QMF	902,304				
W8QZA/6	60,732	WA0QOA	787,320				
W2HLI	59,103	AC1O	767,676				

DX as we were five years ago. So what? Does it really matter? The best part about contesting is the thrill of the hunt—and there's always plenty of game to be hunted. The successful contester is the one who works the stations no one else seems to find.

W/VE Highlights

What motivates the diehard contester is the competition. Just knowing you're in a close race with someone makes it that much more personal. You try harder for every last contact or multiplier, not knowing how your competitor is doing at that moment, and hope you can work just enough to win. The closer the race is, the greater the "agony of defeat!" Just ask Tony, K2SG, who just barely lost the low-power CW class to Larry, K7SV. Had he made just *one more QSO*, he would have won! Where else was it close? Forty-meter phone was a West Coast affair, with Glenn, K6NA, doing a superb job to beat out the field. K5NA and K5XI slugged it out on phone for Multi-single honors.

Some areas had close races—others were runaways. Randy, AA2U, continued his domination of the QRP contest community, sweeping both modes. John, K1AR, and his crew at the K1EA superstation did another terrific job sweeping Multi-Two.

Who says you can't do well in the DX Contest if you don't live on the East Coast? Not Tim, K3LR! He's been working long and hard to improve his station. This year, he and his crew reaped rewards for his perseverance, finishing second in Multi-Unlimited to W3LPL on phone! It takes a lot of work if you want to make it to the top, but remember, the feeling you'll get when you finally get there is worth all the effort. We talked with

W/VE Single Operator, High Power, CW

Call Sign	Score	160	80	40	20	15	10
KM1H (KQ2M,op)	3,613,605	62/36	305/67	814/80	1055/92	875/82	34/24
K5ZD	3,453,030	69/35	225/64	808/83	971/92	929/81	43/23
W1KM	3,163,233	47/29	426/69	870/84	996/84	606/63	42/24
N4RJ (KM9P,op)	2,919,300	42/28	211/58	533/79	742/87	1049/91	53/27
K3ZO	2,860,398	38/25	255/64	599/82	921/90	743/84	42/22
N2LT	2,859,297	46/32	185/58	753/81	791/83	775/82	47/31
W2SC	2,832,138	34/25	220/59	695/81	763/81	884/83	41/29
N6BV	2,802,240	36/26	364/57	606/67	935/83	811/83	28/20
KT3Y	2,497,770	32/20	310/61	807/71	815/82	623/70	23/14
K1ZZ	2,198,160	47/30	311/58	449/69	541/75	634/77	82/46

W/VE 160

W4MYA	26,796
W0ZV	23,712
WB9Z	10,332
W2VO	8,100
WD9INF	6,786
N6SS	5,964
NS0Z (N9JF,op)	3,666
AA8U	2,016
N6LL	1,596
VE3OSZ	1,482

W/VE 80

W1MK	247,776
WE3C	111,672
W9LT	91,584
AA6TT (AA5B,op)	57,828
KG4W	56,490
WA4CTA	54,312
AA5GY	45,600
K3JGJ	44,928
K9BGL	40,755
K1VWL	37,632

W/VE 40

W3GH	235,521
KC7EM	230,127
W5WUMU	217,899
AA4S	213,192
K2MME	132,312
K7OXB	129,276
K6LEB	91,464
N2IWE	77,307
K7JYE	64,320
W0CP	51,480

W/VE 20

K2SS/1	509,376
VE9ST	471,240
VE2ZP (UU2JX,op)	469,056
KC2X	434,313
K4VX (W9WI,op)	373,626
W1IHN	264,384
WS1M	263,160
KA6A	212,760
N7RO	202,119
N4MO	186,660

W/VE 15

W5VX	229,047
N4BP	213,333
N3BJ	208,980
WB4TDH	143,922
W9GIL	78,561
W6BSY	74,760
N2AU	74,181
N15M	64,602
WE1B	59,109
K4PIC	52,032

W/VE 10

K9OM	7,665
VE1RAA	7,524
K9LA	7,029
VE3HX	5,490
W4JKC	4,212
KC5ALW	3,672
K2YJL	2,772
K1DII	900
WA6VNR	273
WB2DVU	240

Tim about his efforts; check out the sidebar "The Big Payoff."

These weren't the only people to find success this year. Bob, KQ2M, came back from a year off to sweep the top spots on Single-Operator High Power. Jeff, K1ZM, did the same thing in the Single-Operator, Assisted category. Steve, W3BGN, won the Multi-single CW class, after finishing close, but not quite, the past two years.

On phone, Lou, KS1L, did a great job on 20 meters, winning the Single-Band competition hands down. Four Novice/Technicians finished in the Top 10 on 10-meter phone this year—outstanding! Our congratulations to Dave, KD4HXT; Bob, WB2BZR; Chris, WD4OAY; and John, KC6ETY.

DX Highlights

If there's a way to beat Carl, AI6V, from Aruba, nobody's found it yet—he easily took the Multi-single (with Dave, NB6G) on CW, and blew 'em all away on phone. Is there magic in the Aruban air? Bob, K4UEE (operating as P40R), and Ville, OH2MM (at

EA8EA), slugged it out on CW, with Bob finding the 10 extra multipliers he needed for the win. They must be onto something.

Who needs high power? Not Larry, KE2VB! His low-power score on phone put him right up there with the "big guns." The rest of the low-power ops weren't far behind: Larry, K3TLX, at C6AHE; Dave, WJ2O/VP2E; Ken, VP5PP; and Dave, XE1/AA6RX, all turned in great low-power phone scores. Ward, N0AX, did a great job, too, operating low power from KH6RS on CW. It may not be easy having to operate a contest from Hawaii in February, but someone has to do it! We most of all want to thank Rich, K3IPK, for his efforts on both modes to put 6V6U on the air and give us all a chance to work a multiplier we don't often see in this contest. His first place, low-power finish on CW and his third place finish on phone in Multi-Two shows just how good he is, and how popular his call sign was.

If you really want it tough, there's the challenge of QRP. Cam, HP1AC, wound up with 318 QSOs on CW, good enough for first

Top 10

W/VE Single Operator, Assisted, CW	Score	160	80	40	20	15	10
K1ZM	3,769,866	73/44	384/79	836/98	728/90	804/93	44/34
K3VWV	3,253,620	64/45	252/76	681/86	861/94	664/88	48/33
K5NA	3,041,472	47/39	246/75	650/93	623/96	726/96	44/35
AD1C	2,809,716	39/30	208/67	602/83	697/89	726/97	52/37
K1IU	2,250,309	18/17	325/75	54/54	815/102	755/94	44/31
N3AD	2,186,310	18/18	132/58	597/80	630/88	604/81	49/34
K2WK	2,011,716	39/24	281/72	277/68	666/91	467/85	44/28
AA3B	1,874,502	19/18	131/52	450/75	692/84	490/79	45/34
K2BU	1,777,095	60/38	162/61	289/72	373/88	568/94	63/28
KC1F	1,774,566	14/13	208/57	366/66	827/91	468/70	19/14

Top Five

W/VE Multioperator, Single-Transmitter, CW	Score	160	80	40	20	15	10
W3BGN	3,855,108	97/47	315/78	715/92	946/99	711/94	59/42
N2NU	3,792,789	72/42	423/79	646/80	969/101	801/97	36/30
K1VR	2,551,536	39/23	269/66	541/77	705/96	662/85	40/30
N2MM	1,410,072	39/28	179/60	378/74	490/73	324/73	23/20
N3KZ	1,244,196	23/22	115/52	282/68	453/78	374/79	34/24

Top Five

W/VE Multioperator, Two-Transmitter, CW	Score	160	80	40	20	15	10
K1AR	7,517,136	54/36	600/87	1330/113	1666/118	1220/110	82/42
N3RS	6,463,800	66/37	462/84	1210/112	1346/118	1122/111	69/42
N2NT	6,336,007	78/44	545/84	1059/110	1250/112	1144/108	91/45
K8AZ	4,231,080	40/33	194/67	885/99	1175/100	871/103	55/36
K5XI	3,939,264	46/30	172/68	787/90	803/103	1014/105	109/52

Top Five

W/VE Multioperator, Unlimited Transmitter, CW	Score	160	80	40	20	15	10
W3LPL	9,035,820	150/57	723/95	1372/124	1705/130	1129/116	114/56
K1KI	7,578,852	96/44	497/81	1400/114	1736/123	1150/104	94/42
K3LR	7,079,718	88/42	561/92	1344/118	1306/116	1086/108	93/51
K1TR	6,976,725	57/35	731/87	1083/108	1699/116	1155/101	70/38
N2RM	5,703,456	139/48	540/81	1029/103	1267/115	800/97	97/47

Top 10

WVE Single Operator, QRP, Phone		WVE Single Operator, Low Power, Phone	
Call Sign	Score	Call Sign	Score
AA2U	305,106	W1PH	832,350
K4UTE	205,656	NM5M	703,248
KA1CZF	150,960	W2TZ	511,704
N1CWR	120,012	WA7BNM	466,425
W8QZA/6	76,128	WS1A	461,160
W6CN	70,560	N2MR	443,718
N6AZR	68,781	KC8FS	440,436
WA4FHQ	50,400	WA1LNP	439,674
KV8S	34,944	KJ6HO	395,541
N8AXA	22,410	WA0QOA	391,932

The Big Payoff

In presenting contest results, we like to highlight outstanding efforts people make to improve their scores. So this time we spoke to Tim Duffy, K3LR. Why? Tim's crew finished in second place on phone in the Multi-Multi class, beating some tough competition in the process. Because we know Tim is always tinkering with antennas, we thought he might share some of his story:

"The first change we made for this year was on 40 meters. We took down the 3 over 3 and put up a 4 over 4, which made us a bit more competitive. We took down the 160-meter lazy-V, and put up a three-element vertical array of inverted-Ls, which helped us a lot.

"It wasn't just the antennas that made the difference this year, though. I had a superb group of operators. Phil, K3UA, and Jeff, N18L, didn't give up when 15 meters died—they just hung in there and kept slugging it out. Scott, WR3G, made the big difference. His Spanish-speaking abilities paid off on 10 meters big time, and we made a lot of QSOs. It doesn't hurt that I aggressively market myself to the South American hams, by making sure that every one of them gets a QSL card."

Tim's not stopping there: Plans include a W2PV-design two-element quad for 80, new 10-meter antennas, and more second-station equipment. Will he one day win it all?

WVE Single Operator, High Power, Phone

Call Sign	Score	160	80	40	20	15	10
KM1H (KQ2M,op)	2,600,865	54/41	247/75	204/76	1045/116	373/86	70/39
N6BV	2,105,535	41/31	189/69	98/52	988/116	410/83	69/30
W9RE	1,968,108	31/27	134/67	125/63	522/103	709/93	115/48
K1RU	1,896,156	24/22	101/58	145/63	876/112	366/81	117/52
K3ZO	1,843,875	31/22	182/64	173/61	721/98	380/85	152/45
W3BGN	1,816,734	60/36	132/62	129/59	763/113	358/82	95/42
AA1K	1,786,794	45/35	123/57	129/58	856/115	310/85	80/36
N2LT	1,579,626	33/25	117/58	92/53	656/110	401/92	83/43
KW8N (KU8E,op)	1,511,454	43/29	129/60	114/58	635/101	346/81	91/42
VO1MP	1,278,552	0/0	212/64	240/71	513/91	346/73	25/20

WVE 160

Call Sign	Score
W0ZV	21,384
W2VO	7,800
AC4NJ	6,840
N2NT	5,376
W4NL	3,741
K2PS	3,132
K4JRB	2,688
K8CFU	2,496
K0CS	1,764
K5WXZ	864

WVE 80

Call Sign	Score
KQ3V	117,117
W4PZV (WA4SVO,op)	106,800
W9LT	83,664
KO1F	69,312
AA8U	41,292
K9BGL	30,396
K1VWL	27,324
K9HMB	27,300
KM0J	25,668
N7AVK	25,440

WVE 40

Call Sign	Score
K6NA	164,016
N7DD	156,288
KC7EM	142,416
W3GH	73,206
KC4YM	53,934
K6GX (K5RR,op)	50,616
W5WMU	43,056
K2ZI	31,086
KD9ST	25,134
N6YKL	23,421

WVE 20

Call Sign	Score
KS1L	488,598
VA3MM	291,972
K9UWA	186,120
KV4P	182,412
VE3KUK	171,690
W0SD (WD0T,op)	166,314
VA7A (VE7XR,op)	165,600
K2QMF	159,903
VE6JY	139,380
K8GL	138,216

WVE 15

Call Sign	Score
K3ZJ/8	266,448
W5ASP	199,704
KS1G	150,183
WA2QNW	138,168
N4BP	138,006
WA8DXB	124,227
N7ML	120,267
VE9ST	86,592
W6BSY	81,543
N15M	66,483

WVE 10

Call Sign	Score
K6SVL	41,724
W5HVV	29,736
KD4HT (N/T)	24,327
N5OKR/3	23,562
WB2BZR/3 (N/T)	21,763
N0YYO	15,930
NM9C	14,400
WD4OAY (N/T)	12,051
KC6ETY/2 (N/T)	11,997
NK6A	

place, and Germano, TG9GI, really made out when the band closed to Europe—who wouldn't like to have a 489k score on phone with just 5 W? On the other end of the spectrum, the 9A1A gang had what it took

to take top spot in both Multi-Unlimited classes. We're also seeing a big jump in the number of Single-Operator, Assisted entries coming to us from overseas—hats off to Roland, DK3GI, on CW, and Eger, PY2EX,



Maybe this is what it takes to be a "big gun"—fancy shirts with custom logos! It sure worked for the ZP0Y team of (l-r) Juan, ZP5JMT; Anibal, ZP5AZL; and Renato, ZP6XR.

Top 10

WVE Single Operator, Assisted, Phone

Call Sign	Score	160	80	40	20	15	10
K1ZM	2,946,675	84/47	242/85	144/76	1044/130	306/17	125/60
K5ZD/1 (KM9P,op)	2,861,958	80/46	199/69	217/68	1453/123	249/83	68/35
K3WW	1,915,440	55/40	152/77	142/73	684/116	249/98	106/56
K2WK	1,778,436	33/27	195/77	82/57	939/115	145/73	103/47
N3AD	1,756,818	37/32	137/73	154/72	562/113	301/95	147/53
N3RR	1,544,298	63/41	142/71	126/70	393/105	257/94	181/82
W1NG	1,332,873	28/25	99/58	85/60	456/107	284/102	129/59
NN3Q	1,108,968	44/34	106/62	90/62	390/102	211/85	102/47
K2XA	1,016,730	47/36	167/70	116/62	249/92	185/80	105/50
KG4W	968,676	27/19	69/45	140/64	278/93	346/82	48/37

Top Five

WVE Multioperator, Single Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
K5NA	2,346,315	54/36	206/79	151/74	849/120	287/101	125/55
K5XI	2,033,724	30/24	103/59	218/65	392/95	596/118	223/73
N2MM	1,823,601	47/35	109/66	101/62	703/120	315/101	114/53
WA2VUY	1,715,904	0/0	129/72	118/65	627/118	321/101	129/76
K8AZ	1,705,635	45/34	127/74	134/65	589/111	292/98	120/53

Top Five

WVE Multioperator, Two Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
K1AR	5,173,704	63/41	334/91	328/91	1666/143	647/118	138/59
K1RX	4,963,896	49/37	418/92	205/84	1687/142	568/119	162/62
KC1XX	4,219,689	68/43	332/91	230/84	1235/132	668/121	136/56
K59K	3,260,007	36/31	201/75	209/77	956/140	618/121	149/57
KF2ET	2,770,200	47/36	317/89	180/78	904/126	339/100	113/57

Top Five

WVE Multioperator, Unlimited Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
W3LPL	7,167,030	115/56	512/99	365/102	1674/150	821/130	422/74
K3LR	6,675,540	83/49	339/101	325/99	1486/157	844/140	508/74
N2RM	6,602,310	145/59	484/98	314/88	1461/149	972/133	329/67
N4ZC	4,382,736	45/34	289/84	245/89	1367/14	654/111	188/66
N3RS	4,139,976	67/45	312/90	359/91	837/135	682/128	225/67

Top 10

DX Single Operator, QRP, CW	Score	DX Single Operator, Low Power, CW	Score
HP1AC	112,572	6V6U (K3IPK,op)	4,542,060
EA7AAW	98,808	C6AHE (K3TLX,op)	3,517,890
IK0CNA	89,280	VP2E/WJ2O	3,424,746
LY3BA	81,528	VP5PP (K0PP,op)	3,159,156
DL2HBX	70,818	XE1/AA6RX	3,039,228
I3BBK	63,714	KP4VA (KP4TK,op)	2,936,784
KP4DDB	58,203	KH6RS (N0AX,op)	2,471,034
JA6UBK	54,648	VK5GN (N6AA,op)	1,296,648
G4FDC	54,288	PY2OU	1,176,480
DJ3XK	39,312	LUBADX	1,027,824

on phone for their winning efforts in these classes.

My Kingdom for Some Sunspots

So the bands weren't open much to Europe on the Phone weekend. Japan wasn't much better. Where *were* they open to? South America and the Caribbean, of course! Check out the QSO/multiplier totals on 10 meters in the boxes, and you'll see that there were still a lot of people out there to work. Don't write this band off. In fact, never dismiss any band as being dead—you never know what can happen.

Although we may have been looking for DX to work, there were great operators looking for us. It's not every year you see scores up above the 10-million-point mark, and this year we had *two*! Kudos to the crews of XE2DV and VP2MFM for their outstanding efforts. It seems to us like not only did they do well, but they had a great time! Why don't you try a DXpedition one of these days?

Of course, you don't have to be crazy to be a good tester, but it helps! Put any three testers together in one place and you'll be sure to hear some good war stories before long. We received a couple of these this year we'd like to share with you, in the sidebar "Is this the Fun Part?"

Maybe you got on the air to help your club? Club competition is a big reason why so many hams get into this contest. The Yankee Clipper Contest Club put on a big effort this year, trying to see if it could beat the Frankford RC. The YCCC turned in a good effort, but fell short to the tune of 8 million points. Among the Medium clubs, no one came close to the Potomac Valley RC this year, as it won by a handy margin. Our congratulations to the Hudson Valley Con-

DX Single Operator, High Power, CW

Call Sign	Score	160	80	40	20	15	10
P40R (K4UEE,op)	4,976,016	317/48	564/55	884/56	1166/58	995/58	1070/57
E8EA (OH2MM,op)	4,891,512	268/43	611/55	1224/58	1246/59	1404/60	437/48
V26AS (YT6AA,op)	4,255,740	234/54	141/48	801/57	1063/58	1117/60	931/56
PJ9JT (W1BIH,op)	3,635,280	265/41	346/49	554/52	938/56	860/58	997/50
G4BUO	2,049,180	106/24	497/47	576/58	750/56	803/54	56/16
GB5AR (K3RV,op)	1,870,026	49/11	249/39	714/50	805/56	869/56	60/15
OK1RF	1,761,720	27/9	406/43	829/51	729/54	779/55	0/0
OM8A	1,264,494	0/0	177/31	768/52	758/57	551/47	0/0
DL2MEH	1,178,064	38/16	325/39	440/47	488/54	504/51	23/9
OK1CM	1,104,117	57/20	352/38	368/43	553/55	483/47	0/0

DX 160

9A2TW	17,400
CO2EG	15,120
EA1AUI	12,267
I3VHO	9,792
JA7NI	1,122
DF3OL	957
JE1SPY	135
YZ1MB	72
UT7QT	27
YU1AST (YT1EA,op)	3

DX 80

EA1AK/EA8	161,616
FM5CD	135,576
OT5T (ON4UN,op)	135,558
G4BUE	100,815
OM5DX	98,640
I8UDB (I2UIY,op)	96,867
SN3A (SP3RBI,op)	86,976
S51IX	72,732
S56M	70,821
4N1A (YU1UA,op)	68,061

DX 40

EA7CEZ	244,872
LZ7W (LZ5DB,op)	213,285
9A3IQ	201,072
YU7A (YU7GO,op)	200,448
G3MXJ	173,712
KL7RA	173,130
HB9FAP	146,850
S57AL	143,520
C6AFV	116,640
S51QZ	114,750

DX 20

9Y4VU	302,400
GM3POI	246,060
OH8LQ	231,693
IU9V (IT9VDQ,op)	229,392
RW1ZA	213,108
DJ7AA	196,620
9A7A (9A8AA,op)	173,283
SP5GRM	163,902
YT7AO	154,584
OH1NOR	151,554

DX 15

ZW5B (YU1RL,op)	304,674
G3TXF	205,200
EA2IA	168,504
LU3FSP	158,514
TU2MA	137,286
JA7FTR	124,320
SP7GIQ	117,312
ZF2EW (W1XN,op)	108,756
YT9C (YU1IG,op)	106,704
DK3KD	97,200

DX 10

LU6BEG	235,620
LU7DW	58,656
YV1OB	54,510
LU8HSO	53,595
LU1BW	46,011
EA8ZS	30,186
LU1FNH	22,686
PY4WZ	14,688
IT9AF	3,111
KL7FAP	1,392

testers and DXers, which broke a long winning streak by the River City Contesters to finish first in Local Club competition. Good job, gang!

Remember, even if you're not a "top tester," you can still have fun in the DX Contest. Why not challenge the ham down the street, your friend on the repeater, or your club members to get on the air? You might find yourself enjoying this a lot more than you think!

No matter whether you traveled the world searching for pileups to run or just tried to work a few people during the weekend, the DX Contest is one event everyone makes room for in their schedule. If you like operating excitement, this is for you! See you next year on CW February 17-18, and March 2-3 on phone!

SOAPBOX

WVE CW

My antenna system was an 80-meter dipole fed with ladder line, about 30 feet high at its apex. Considering band conditions, I did well with my limited antenna (WA1CBW). I relocated to Maine and

worked my first DX ever on 160 meters (KC1XR). The conditions for this time of the cycle were terrific. I had problems with the rotator—it would turn only in one direction—adding an additional challenge (KM1H). I never cease to be amazed at how well a piece of wire strung as a vertical and loaded with a tuner will work (WA2LCC). I still love the thrills of the pileups (N2AU). The conditions were much better this year than anticipated, but good or bad, this contest is always a lot of fun (KK4SM). This was a great contest, with great conditions. It's not often one can work so many multipliers in a contest on most bands and on 10 meters (K7SV). I never really got into a DX Contest before this year (K4UK). I fell asleep at 1500Z Sunday, only to be awakened by the sound of 9V1YC coming through my headphones—at least my unconscious mind was still actively participating (KC7EM). The contest was a lot more fun after I got the power amplifier to stop setting off my fire alarm system (N8AAT). There was a fantastic opening to VK Saturday morning on 160 meters and an excellent opening on 15 meters; not bad for this part of the sunspot cycle (K9MA). The lack of sunspots didn't bother me at all (VE9ST). The conditions were great, which wasn't expected (K1JKS). I'm just getting into CW contesting for the first time and I found it exciting (N2FF). The conditions were excellent on 15 meters and I worked many Europeans there (KC6X). This was my best-ever effort in the DX CW contest. I missed the 10-meter opening, but had excellent runs on 40 and 80 meters with just a simple vertical antenna. (K6SG). What solar mini-

Top Five

DX Single Operator, Assisted, CW

Call Sign	Score	160	80	40	20	15	10
DK3GI	1,706,400	19/9	389/46	578/51	786/55	719/55	37/9
JJ3YBB (JR7OMD,op)	679,536	0/0	56/19	386/45	463/55	363/50	19/7
IK0HBN	611,586	21/10	101/27	256/43	375/48	328/45	33/10
IK5TSS	191,178	0/0	29/17	137/37	175/42	153/33	0/0
PY2EX	149,040	0/0	5/4	61/33	250/44	96/37	2/2

Top Five

DX Multioperator, Single Transmitter, CW

Call Sign	Score	160	80	40	20	15	10
P49V	5,573,421	251/49	573/55	1076/57	1451/58	1211/59	1017/55
HH2PK	4,295,268	337/48	642/55	971/56	985/59	1013/57	471/49
J75A	4,110,942	207/39	764/57	759/54	1043/58	834/56	771/49
V31TP	3,781,008	171/41	663/56	758/55	714/55	1136/57	650/44
XE2EBE	2,936,640	212/46	567/52	685/57	803/58	528/50	425/41

Top Five

DX Multioperator, Two Transmitter, CW

Call Sign	Score	160	80	40	20	15	10
6E2T	5,755,428	267/45	941/55	1335/59	1262/60	1203/58	788/54
KL7Y	3,551,232	74/30	308/44	906/56	1119/59	1366/59	323/41
DL3OI	2,238,897	19/12	672/52	878/56	938/58	686/55	0/0
DL0CS	1,665,666	83/21	448/45	412/48	1039/58	519/50	0/0
DF0BV	1,280,106	37/15	305/37	537/46	762/53	525/46	0/0

Top Five

DX Multioperator, Unlimited Transmitter, CW

Call Sign	Score	160	80	40	20	15	10
9A1A	3,419,577	167/29	678/47	1292/56	1148/58	1061/54	55/15
JA3ZOH	1,826,916	78/21	205/39	695/54	658/56	855/56	57/13
JA1YDU	1,302,255	25/8	205/41	522/45	564/59	673/54	30/8
UU5J	1,198,338	17/11	224/32	587/59	753/56	472/42	6/4
RU1A	1,151,703	0/0	107/25	596/57	925/56	493/43	0/0

Top 10

DX Single Operator, QRP, Phone		DX Single Operator, Low Power, Phone	
Call Sign	Score	160	80
TG9GI	489,600	KP2/KE2VB	5,791,200
KP4DDB	166,242	NP4Z	5,504,616
JH1HRJ	20,664	VP2ENR (YU1NR,op)	3,266,628
F5BEG	11,316	KP2AD (AA9DW,op)	3,157,362
JR2BNF/1	7,347	L37N (LU2NI,op)	2,222,514
KH6/WB6FZH	5,325	HI8OMA	1,018,164
JA2JSF	2,379	VP2V/K1DW	926,016
JA2DLM	1,998	6Y5JA	922,218
		PJ8CW	816,240
		PW2N (PY2NY,op)	788,004

mum? The conditions were outstanding on Friday and Saturday. We could run Europe on 15 meters on Saturday (KF0GV).

DX CW

There's nothing like running a morning pileup with fresh papaya and a glass of pog while looking out over the Pacific Ocean. These were the best contest conditions since 1992 and 10 meters was amazing. It's too bad the QRN from a local storm kept my 160 and 80-meter totals way down, but 10 meters more than made up the difference (KH6RS). I had a good time, as usual. It was great to see the band crowded, with lots of activity (VK1FF). Conditions were good on all three bands, but on 15 and 20 meters they were outstanding (F6FTB). This was my first time operating on a single band and working with an amplifier. I was able to surpass my number of contacts on 40 meters and I worked 37 states (PW2N). The storms in the local area caused electrical static on 80 and 40 meters on Saturday and Sunday evenings. I finally lost power on Sunday evening. There was a short opening on 10 meters on Sunday night (VK4EMM). This is

DX Single Operator, High Power, Phone

Call Sign	Score	160	80	40	20	15	10
P40V (AI6V,op)	8,183,952	234/43	581/58	695/58	1544/60	2347/58	2718/59
VP5X (WE3C,op)	7,716,240	384/47	1060/59	972/57	1469/59	2454/59	1316/55
ZD8Z (N6TJ,op)	7,032,993	126/31	507/55	732/58	1417/59	2513/58	2054/58
V26AS (YT1AD,op)	5,723,136	175/40	362/53	549/55	1378/59	1216/59	2208/58
WR6R/KH6	4,009,824	7/4	387/51	1115/56	820/53	1618/58	967/50
J37K (W8KKF,op)	3,975,276	3/3	84/57	469/53	834/58	1949/58	1817/58
PR0R (PP5JR,op)	3,524,328	0/0	41/23	456/51	1033/58	1495/58	1712/58
CE6EZ	2,286,981	0/0	0/0	112/40	1114/59	1142/58	1211/56
CT5P (CT1BOP,op)	2,200,311	49/17	423/44	535/49	1366/58	848/54	10/5
PJ9T (AB4JI,op)	2,163,840	0/0	343/50	149/37	705/52	404/51	1343/55

DX 160

FM5DN	31,800
I3MAU	25,935
CU2CE	23,199
9A2TW	8,646
9A4D (9A2LH,op)	7,524
I6FLD	4,860
OK1AEZ	3,240
EA1DVV	2,058
OM3TZQ	975
UT0D (UT7DX,op)	378

DX 80

VP2MFP (KK9A,op)	295,944
TO2DX	248,154
YW5P (YV5FGL,op)	147,060
CO3ZD	136,920
OT5T (ON4WW,op)	100,224
YV4FZM	94,215
S57AW	81,072
I8UDB	79,380
OM5DX	58,320
I4AVG	52,890

DX 40

ZF2CF	366,096
9Y4VU	329,556
YV5MRR	224,634
VK3EW	136,455
PY8AJD	90,789
CE6SAX	85,542
LU4D	53,250
GW4BLE	50,799
I16F (IK6BOB,op)	49,536
S57AL	41,832

DX 20

HK3JH	358,020
HC2HM	302,493
3G1X (CE1IDM,op)	251,604
YV5NCJ	237,177
IB4M (I4ABF,op)	214,020
LU5FCI	212,754
GM4FDM	207,180
KH6FKG	198,072
IT9XUC	198,018
CX7BY	197,355

DX 15

TG0AA (KA9FOX,op)	688,884
ZF2ND (KF6OG,op)	538,530
PV4B (PY4OY,op)	459,492
HK4QIM	428,910
PJ9JT (W1BIH,op)	410,994
AH6IM	171,234
ZP5MAL	159,096
KH6GMP	147,345
IO4LEC	113,631
EA2IA	95,418

DX 10

LU6ETB	554,718
VP2VF	437,589
LU3HIP	364,680
LU8HSO	341,478
LW1DIP	194,040
YV4GAC	184,305
V73C	177,096
WH6CQH	146,328
WP4LNY	140,913
YV3DGA	99,909

my first time entering the contest and I'm sure it won't be the last. My antennas weren't in the best operable condition, but I made a good effort and will be back stronger than ever for next year's contest (LA7AK). I reviewed records of the past 10

years before entering the contest and setting my goals. The conditions were fair to the Midwest, good to the East Coast and bad to the West Coast, but I still made an excellent effort. I love working the ARRL DX Contest (OT5T). There was a surpris-



Werner, HB9KC, had some newcomers stop by the shack so he could give them a little introduction to contesting.



Once more into the breach! The Hudson Valley Contesters won the Local Club Competition this year, adding to its fledgling gavel collection. K5NA's crew won the Multi-single phone class in one of the last efforts from Richard's New York QTH. Look for K5NA signing from Texas in a contest near you soon! The ops are (standing, l-r) AA2GS, N2IWE, WA2UKP, WA2JQK, KB2EEH, KD2NE, K5NA; (kneeling, l-r) JA9SSY, WA2MMX, KU2Q, W2XL, N2MFZ, KY2J and N2MCI.

Top Five

DX Single Operator, Assisted, Phone

Call Sign	Score	160	80	40	20	15	10
PY2EX	795,126	0/0	0/0	132/35	194/39	655/55	508/49
I8QLS	676,851	40/16	135/32	259/35	457/44	456/36	4/4
OH1EH	315,090	6/6	21/12	32/15	437/49	267/42	15/11
EA3AFF	129,948	0/0	29/15	11/7	227/34	209/35	0/0
IN3ASW	120,249	0/0	36/14	27/11	307/45	61/23	0/0

Top Five

DX Multioperator, Single Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
PJ0B	9,223,200	223/44	683/57	1103/59	2079/61	2257/57	2805/58
V31DX	9,032,634	256/53	738/59	1213/58	2052/62	2288/60	2031/59
HH2PK	8,520,986	208/38	640/57	1128/57	1618/59	2653/58	2439/58
8P9Z	8,431,452	126/30	751/55	1361/58	1646/59	2330/58	2624/58
ZF2PP	8,265,600	202/39	861/58	889/58	2149/60	2942/59	1357/54

Top Five

DX Multioperator, Two Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
YP2MFM	13,117,104	283/38	1178/59	1640/59	2524/61	4175/60	3213/59
XE2DV	10,554,264	418/50	1102/58	1365/58	2472/60	2767/59	2103/59
6V6U	5,923,584	18/10	507/55	603/52	2256/58	2279/59	1193/54
C6AHG	4,841,694	370/43	511/51	886/56	1551/58	1905/56	211/33
EA9IE	1,279,830	0/0	275/43	150/33	859/56	1022/53	0/0

Top Four

DX Multioperator, Unlimited Transmitter, Phone

Call Sign	Score	160	80	40	20	15	10
9A1A	2,112,462	200/30	376/41	564/47	1107/59	852/47	3/3
JA1YDU	783,216	0/0	175/31	373/36	510/51	420/40	76/10
UU5J	312,018	8/6	156/28	59/20	478/54	81/25	0/0
EM2I	188,478	1/1	79/21	103/25	372/58	11/6	0/0

W/VE Plaque Winners—CW

Single Operator

All Band	KM1H (KQ2M,op)	Frankford Radio Club
1.8 MHz	W4MYA	George Schultz, W0JUA, K0ZZ Memorial
7 MHz	W3GH	Northern Arizona DX Assn
14 MHz	K2SS/1	QSLs By W4MPY
21 MHz	W5VX	Carl Luetzelschwab, K9LA
Low Power	K7SV	Dauberville DX Assn
QRP	AA2U	Tod Olson, K0TO
Assisted	K1ZM	Billy Lunt, KR1R

Multioperator

Single Transmitter	W3BGN	Northern Illinois DX Assn
Unlimited	W3LPL	Ehrhorn Technological Operations Inc

W/VE Plaque Winners—Phone

Single Operator

All Band	KM1H (KQ2M,op)	Frankford Radio Club
1.8 MHz	W0ZV	Butch Greve, W9EWC, Memorial
3.5 MHz	KQ3V	Kansas City DX Club
7 MHz	K6NA	David Thompson, K4JRB
28 MHz	K6SVL	Border City Radio Club—VE3WHT
Low Power	W1PH	Dauberville DX Assn
QRP	AA2U	Michigan QRP Club

Multioperator

Single Transmitter	K5NA	Kenwood Employees ARC, WD6DJY
Unlimited	W3LPL	Western New York DX Assn, W2RR

DX Plaque Winners—CW

Single Operator

World	P40R (K4UEE,op)	North Jersey DX Assn
Africa	E48EA (OH2MM,op)	Byron Peebles Jr, N230
Asia	JH5FXP	Alamo DX Amigos
Europe	G4BUO	Dr Jerry Griffin, W8MEP
North America	V26AS (YT6AA,op)	Potomac Valley Radio Club
Oceania	KH6RS (N0AX,op)	Steve Franke, WB9IQ, and John Brosnahan, W0UN
South America	PJ9JT (W1BIH,op)	WA6WZO Achievement Award
3.5 MHz	EA1AK/EA8	Mad River RC
7 MHz	EA7CEZ	Thomas Gannon, W3YX, Memorial
14 MHz	9Y4VU	Bencher Inc.
21 MHz	ZW5B (YU1RL,op)	Southern New England DX Assn
28 MHz	LU6BEG	Ft Wayne DX Assn
QRP	HP1AC	Dr Jerry Griffin, W8MEP
Assisted	DK3GI	Willamette Valley DX Club

Multioperator, Single Transmitter

World	P49V	John Brosnahan, W0UN
Europe	TM9C	The Radio Place

Multioperator, Two Transmitters

World	6E2T	Lentini Communications Inc
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Multioperator, Unlimited

World	9A1A	H. Stephen Miller, N0SM
Europe	UU5J	Texas DX Society

DX Plaque Winners—Phone

Single Operator

World	P40V (AI6V,op)	North Jersey DX Assn
Europe	CT5P (CT1BOP,op)	Dr Jerry Griffin, W8MEP
North America	VP5X (WE3C,op)	Chod Harris, VP2ML
Oceania	WR6R/KH6	N7AVK—in Honor of W7IYW
14 MHz	HK3JH	Central California DX Club
21 MHz	TG0AA (KA9FOX,op)	Long Island DX Assn
28 MHz	LU6ETB	Long Island Mobile ARC
QRP	TY9GI	Southern Arizona DX Assn
Assisted	PY2EX	Russ Fillingier, W7LXR

Multioperator, Single Transmitter

World	PJ0B	Carl Cook, AI6V
Africa	EA8ZS	Kenwood Employees ARC, WD6DJY
North America	V31DX	Nick Lash, K9KLR

Multioperator, Two Transmitters

Africa	6V6U	Stanley Cohen, WD8QDQ
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Multioperator, Unlimited

World	9A1A	Wayne T. Yoshida, KH6WZ
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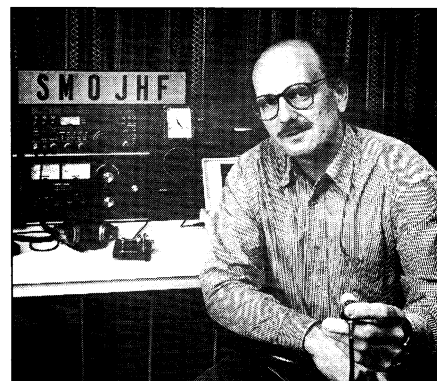
Special Plaques

Single Operator

W/VE Combined Score	KM1H (KQ2M,op)	<i>National Contest Journal</i>
W/VE Low-Power Combined Score	W1PH	Rochester, NY, DX Assn
W/VE 40-Meter Combined Score	KC7EM	Advanced Electronic Applications, in Memory of Jim Rafferty, N6RJ
W/VE QRP Combined Score	AA2U	Dr Marvin Tanaka, KH6MM
W/VE Under-18 Combined Score	N1QMM	Connecticut DX Assn, Fr Moran, 9N1MM, Memorial
World Combined Score	PJ9JT (W1BIH,op)	Mike Manafa, K3UOC
Japan Combined Score	JH5FXP	J47WME, JE7RJS, JH7AFR
Atlantic Division CW	K3ZO	K2NY Memorial, Salt City DX Assn
Great Lakes Division CW	N4XM	Livonia ARC, Livonia, MI
Great Lakes Division Phone	KW8N (KU8E,op)	Livonia ARC, Livonia, MI
Hudson Division CW	N2LT	Order of Boiled Owls of NY, W2AO Memorial
Japan All-Band CW	JH7WKQ	Akita DX Assn
Japan All-Band Phone	JH1AEP	Communication Ham Club, JH7YJF
Japan Low-Power, All-Band CW	JE0UXR	Western Washington DX Club
Seventh Call Area, All-Band CW	W2VJN	Willamette Valley DX Club
Seventh Call Area, All-Band Phone	WA7FOE	Willamette Valley DX Club
Single Operator, Under-18 CW	DJ5LA	Virginia Greene, WB1AVA
Single Operator, Under-18 Phone	N1QMM	Virginia Greene, WB1AVA

Multioperator

Caribbean Multi-single CW	P49V	The YASME Foundation
Multi-Multi Combined World	9A1A	W2PV Memorial, Schenectady ARA



Henryk, SM0JHF, gave up after the first day on CW, claiming, "There just wasn't any propagation up here!"

amount of activity from New Hampshire and New Jersey, but nothing really opened on 10 meters (OZ5OX). You can't prove it by me that the bands are bad. I made more than 600 contacts in less than eight hours of the contest and my vertical antenna looks like a miniature inverted L from the last storms we had (VP9MZ). The band conditions were about the same as last year. I've found that the US hams are good sports. I had a good time and I'll be back next year (PJ5JP). The propagation was only to the East Coast and Canada for only a short period of time, but I had fun in the contest (OH5PA). I had a hard time finding enough stations on 40 meters, which was by far the best band. Much to my amazement, 15 meters gave me some pleasant surprises (OZ8RO). I found conditions on 40 meters poor, but it was fun on the other bands (DL5AWI). I had a lot of fun with poor equipment and good conditions, particularly on 15 meters. It was amazing to have many stations on 80 meters able to hear my QRP station (DL2HBX). I found 80 meters much better than last year, but I think it was probably my new bobtail antenna that made the difference (DK3GI). The contest was great, despite three power failures and a number of visitors, which cramped total operating time, but I had some good runs. Trying to make 80-meter QSOs with my Cushcraft R7 vertical antenna and reduced power was a challenge, however (HP3/KG6UH). I found propagation from this part of the world to be pretty good and I really appreciate the contest (IV3SHF).

W/VE Phone

The ice-coated antennas were almost useless until Sunday, when the ice finally melted. On Friday night, my 40-meter beam resonated at 6.725 MHz! (KQ2M). It's great to see so much participation from all the 10 to 50-W guys in Japan (KC7EM). Conditions were great the first night, but there was too much noise the second night. I still had a lot of fun (KQ3V). The first day was fun; the second day was the pits (N6BV). Propagation was decent Friday evening and early Saturday, and went into the tank from then on. The Caribbean and South America kept things barely alive. Still, it was great fun and easy operating (W5ASP). I didn't hear any Europeans on 15 meters the second day (WA7BNM). There was a good European opening Saturday, I didn't hear one on Sunday. I heard a lot of LUs, though! (K3ZJ). The propagation was interesting, with Europe coming over the South Pole on 15 meters late Saturday afternoon (K1JKS). Conditions were great the first two hours; it was all downhill from there. I had an unusual scatter-path run of JAs on 10 meters the second evening (K5MR). I tried hard to balance chasing packet spots with running stations. It was hard work, but kept the rate up, especially the second day, when conditions went south (K1ZM). It was the most fun I've had in years! (NM5M). If it wasn't for the South Americans and the Caribbean stations, I wouldn't have had a very good score (KA5PVB).

DX Phone

The first day of the contest was plagued with rain, snow and line noise, but a short, good opening was a blessing. The second day there weren't any openings at all (S50R). This was my first big contest and

Is This the Fun Part?

You want some good stories from this year's contest? We got 'em! If you want to know what some hams go through on a given winter weekend, check out the sagas of Rich, KL7RA, and Dallas, K1DW:

CQ From the Great White North:

Rich Strand, KL7RA

As they say, "If I had known I would live so long, I would have taken better care of myself." If I had known the band would be so good, I would have been better prepared. At least I got some sleep before the start. The 40-meter band was open to the States with signals S9+20 almost four hours

each day. I had many hours of "normal" (for here) 10-20 QSOs/hour, which added up to a good score.

I sauntered into the shack at about 0100Z, thinking I still had a few hours before the band opened, and the band was already hot. I jumped into the driver's seat and started the contest. . . well, I tried. The computer had the wrong date/time/ band, and wouldn't key the radio. Why do I go through this every time? The contest's secret weapon—my Heath SB-220 power amplifier—was arcing and sparking. I had distorted receive audio (I never did find out why) and every "big gun" Multi-multi calling me as I tripped the *PacketClusters* across North America.

I finally just shut the amp off and kept at it until I had the first break from the crowd. I leaped from the desk and carted the radio/computer and dangling cables to the shack about 50 feet (and about four feet of snow) from my house. It took about 10 trips in -20°F temperature. I got set up for real and with a heavy coat and frozen fingers, continued the run. Now I had power and was able to hold my frequency against the coming European onslaught.

The shack finally warmed up (electric heat) and broke the freezing mark at about 0800Z. Forty-meter conditions were unusual for this time of the cycle. Europe was loud, as was Japan, and I would fend off their calls to find the



Did he say QSL via the "buro" or "burro"? Dallas, K1DW, asks one of the VP2V locals for assistance.

US stations that were still in there most of the night. Calling "CQ USA" in nine languages helps. When you follow this with, "I know Alaska is a state, but I don't make the rules," you keep the amp running at full blast and keep the shack nice and warm. Until, that is, the temperature marched past the 90° mark, at which point the fan system cut in and opened the vent to the outside air, sucking up my notes and blasting me with -30° air. But it worked—I was cold again. Boy, I love this hobby!

Murphy Goes to Tortola:

Dallas Ward, VP2V/K1DW

Wow! Thursday night I called CQ on 3.8 MHz and the band exploded! It was just like they said it would be. The VP2V call sign gives my signal a big boost. The DX contest should be fun from here, and everything is working as planned. With only 100 W, my antenna is doing a great job at 50 feet up and 10 feet back from the saltwater, a straight shot to the US.

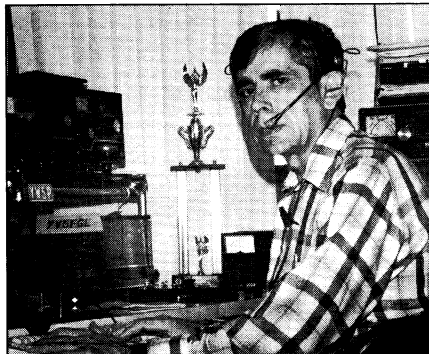
Friday night the first hour goes well on 20, and the "big guns" are calling me. Then the band dies, so I decide to get some sleep, get up early, and go get 'em. Saturday at 5 AM, I realize there's something wrong with the radio; it's drifting. I search for WWV and copy it on 9.965 MHz, but the frequency continues to change. Steam starts to come out of my ears and fire out of my nose. My wife comments, "But you said this trip was going to be fun with your radio and a contest." I mumble something unintelligible to her about frustration.

My mind begins to spin. All I have for tools is a Swiss army knife and a screwdriver from a flea market. What am I going to do? Maybe it's a heat problem and I can cool the rig with a fan. But no fan can be found. What if I put it in the refrigerator? No, that's too crazy. So I do it. I push the beer aside, put the rig on the bottom shelf, close the refrigerator door, and wait. After three hours I pull the rig out, hook it up and turn on the power. Condensation on the outer surfaces makes it difficult to read the display, but WWV is right at 10 MHz and it doesn't drift.

I call CQ on 80 and the band explodes. I am DX. The thrill and rush last about three hours. Then the drift problem returns. So back into the refrigerator it goes. This scenario continues the entire weekend, but the contest isn't a total loss. Even with the radio in and out of the refrigerator, I operate about 14 hours, make more than 1700 contacts, average better than 120 per hour, but don't break the magic 1 million-point level. The contest is fun, as it should be.

Yet, with all the drift problems and frustration, there is a positive side. I have a good reason to return next year. Maybe with a more stable radio I can operate the entire contest. All I need to do is to figure out how to leave Murphy home when I go. Is there anyone willing to entertain him for 1996?

I enjoyed it very much, although the conditions were terrible (EA3BT). There was a big aurora on Saturday night in Europe and on Sunday. I was only able to hear and work the strong stations (DL7UTA). The band was completely dead on Sunday and only a few strong stations from North America could be heard (OZ8T). There were excellent band conditions on Saturday with almost 200 QSOs more than last year; unfortunately, 15 meters didn't open the following day (IO4LEC). The conditions were unbelievably good for this part of the sunspot cycle. I lost the 160-meter antenna on the second night, but it didn't really matter. I had a small fire in the tuner, but kept going anyway (XE2DV). I just wanted to get my station on the air, so I got interested in the contest. The conditions seemed fairly good and I had a fine rate for the six hours I was on the air (6D2X). I had a limited amount of time on the air and, unfortunately, propagation was bad. It was still a fun contest to operate in (PA3GBQ). It was a great surprise to work 11 US stations on 160 meters, but conditions were well below normal on 10 and 15 meters (RAØFU). The first hours of the contest



Did you work Venezuela on 75 phone? Chances are it was Pedro, YV5FGL, who worked through the QRN and QRM, signing YW5P.



At least in Portugal, you can operate with the window open in March! Joao, CT1BOP, puts CT5P through its paces on phone, leading Europe with his 2.2M score.



That's the secret to a successful Multi-single—have the other guys do the operating! Steve, W3BGN (center), supervises Joe, W2REH (l), and Tom, K2TW, as they cruise to yet another win on CW.



Did you need Vatican City for your DXCC? Ed, W9SI/OA4SS (r), paid "Pino," IØDUD, a visit and handed out a lot of QSOs on both modes for those who needed it. He said, "I've never experienced anything like this in my 42 years as a ham!"

were good, but the band never really opened up to the West Coast of the US. The second night was much worse because of the aurora. The highlight of this contest was working DC just 30 minutes before the end of the contest (OT5T). The total amount of contacts was down over the CW weekend, but I had a good time, anyway (VK1FF). I enjoyed the contest. I work only a single band, which only gives you a small window of operation, but that allows time for weekend lawn mowing (VK4ICU). The electric light company acted like Murphy and turned the power off on Sunday afternoon. The first time this happened we went to the beach, but the second time we rigged up emergency power. These are some of the problems when living in paradise (PJ8CW). The band conditions were good, overall. We had heavy noise on 160 and 80 meters on Sunday morning. The pileups were so large that they completely tuckered me out, but it was an exhaustion that was quite enjoyable (VP5X). I tried to make a big effort to improve my 160 antenna, but it didn't work the first night, and on the second night a storm wiped out my ability to hear anything (WR6R/KH6). I wouldn't say conditions were the best, but they



Can't touch this! Carl, AI6V, continues to be unstoppable from Aruba, winning the Single-op phone as P4ØV, and the Multi-single CW as P49V with Dave, NB6G.

weren't the worst I've seen, either (HP3/KG6UH). This was my first participation in any one of the ARRL contests. It was interesting (XE2Z). This was a fun contest, but despite the noise on 15 and 10 meters, it was enjoyable. We operated just like the Three Stooges (LU2DW).

Feedback

See the results in October 1994 QST, pages 108-123:

A few entries missed being listed in last year's results. In CW, XE1/AA6RX finished first place, low power in Mexico. His line score was 267,288-602-148-B. On phone, Dave was second place, low power, World, and first place Mexico, with a line score of 4,297,158-4681-306-B.

Three Venezuelan entries missed out. 4M5B was third place, 40-meter phone, World, and the leader for South America (and Venezuela). His line score was 113,367-713-53-C-40. YV5NCK was sixth place, World, 80-meter phone, with a line score of 51,792-332-52-C-80; and YV5NCJ was first place, Venezuela, 20-meter phone and the South American leader. His line score was 202,320-1124-60-C-20.

Affiliated Club Competition

	Score	Entries	CW Winner	Phone Winner		Score	Entries	CW Winner	Phone Winner
Unlimited Category					Willamette Valley DX Club	576,435	4	W7YAQ	W7FP
Frankford Radio Club	145,472,466	161	N2LT	W3BGN	Ohio Valley ARA	533,748	3	W8RSW	—
Yankee Clipper Contest Club	137,622,645	151	K5ZD	N6BV	Great Falls Area ARC	494,331	4	K7ABV	K7ABV
Medium Category					North Florida DX Assn	459,570	3	—	K4UTE
Potomac Valley Radio Club	34,473,882	38	K3ZO	K3ZO	Albany ARA	430,122	3	NW2J	—
North Coast Contesters	26,361,453	28	K3MD	K3TUP	Genesee County Radio Club	427,704	6	—	N8LYM
Society of Midwest Contesters	14,798,517	25	W9RE	W9RE	South Jersey Radio Assn	369,699	13	N2FY	W2ORA
Mad River Radio Club	7,367,679	17	K9ALP	KW8N (KU8E,op)	Lone Star DX Assn	350,454	4	W5MW	—
Northern California DX Club	6,434,019	39	W6BIP	WC6H (NU6S,op)	Kansas City DX Club	343,707	6	KCØEI	NXØI
Florida CW Contest Group	6,295,173	13	AC1O	KC2X	Northrop Grumman Radio Club	307,521	6	N6GL	W6CN
Texas DX Society	6,290,016	6	—	WSASP	Sterling Park ARC	250,560	4	W3FTG	W4LMJ
Southeastern DX Club	5,958,033	16	N4RJ (KM9P,op)	AA4S	Indian River ARC	237,501	11	W4YN	AC4IV
Minnesota Wireless Assn	5,860,305	11	WØHW	ACØW	Valley Radio Club of Eugene	225,003	3	AA7FL	AA7FL
North Texas Contest Club	5,468,181	11	KY5N	KS1G	California Central Coast DX Club	222,084	4	W6SWM	W6SWM
Mile High DX Assn	4,489,542	10	W4ETO	KØKR	Southeast Michigan DX Assn	201,231	3	K8QLK	K8QLK
Southern California Contest Club	3,671,277	14	W6MVV	K6NA	West Park Radiops	192,342	10	W8BE	W8PN
Southern California DX Club	3,429,903	21	WA5VG1	K6CX	Hamfesters Radio Club	186,882	8	W9LNQ	W9CA
Rochester (NY) DX Assn	3,396,969	22	W2TZ	W2TZ	Redwood Empire DX Assn	136,338	3	N6YEU	W6ESJ
Central Texas DX and Contest Club	3,190,194	5	WB5VZL	AC5AA	Schenectady ARA	106,260	3	K2RI	K2RI
Northern California Contest Club	3,090,366	18	AA6KX	AA6KX	Local Category				
Western Washington DX Club	2,939,022	22	N7RO	WA7FOE	Hudson Valley Contesters and DXers	9,007,044	9	—	KD2NE
Western New York DX Assn	2,841,756	16	KW2J	N2DBI	Carolina DX Assn	5,840,988	6	AD4MQ	N4UH
Murphy's Marauders	2,691,081	5	K1ZZ	—	River City Contesters	5,811,234	6	—	—
Oklahoma DX Assn	2,601,375	10	W5UDA	WM4Z	Hoosier Contesters	3,392,403	4	WN9O	K9UWA
Kentucky Contest Group	1,928,802	7	K4LTA	K4CDWT	Central Arizona DX Assn	1,290,822	4	WA7LNV	—
Western Illinois ARC	1,840,890	16	NM9C	N9JF	Central Virginia Contest Club	1,225,917	5	K4BAM	—
Eastern Iowa DX Assn	1,408,008	5	NYØV	WØPPF	North Shenandoah DX Assn	840,756	5	K8OQL	KC4GIA
North Alabama DX Club	1,135,080	7	WA4CTA	KE4BM	Boiled Owls of New York	611,223	3	NA2M	—
Salt City DX Assn	788,184	7	AJ3K	AJ3K	South Coast Wireless Society	474,591	7	—	KA1MH
Long Island Mobile ARC	619,518	6	K2SHL	K2MFY	Orange Park ARC	261,333	3	—	KS4KP
Nashua Area Radio Club	577,842	5	WA6KUI	KD1ON	Metro DX Club	220,899	4	—	K9MDO

Scores

Scores are listed by DXCC countries and ARRL sections/RAC provinces. Within each country or section, scores are listed in descending order, by power categories, followed by multioperators. Line scores list call sign, score, QSOs, multipliers, hours of operation, power (A = QRP, B = Low Power, C = High Power, D = Multioperator), and band. Division and Continental Leaders are listed in bold.

Country/Section	Call Sign	Score	QSOs	Mult	Hours	Power	Band
Connecticut	KA1CZF	151,074	327	154	A		
	NM1K	35,640	135	88	A		
	KH6CP/1	468	13	12	1 A		
	K5FUV/1	396,342	681	194	B		
	W1QK	160,440	382	140	B		
	WA1CBW	155,958	374	139	B		
	W1XK	155,490	355	146	B		
	AA1CB	6,150	50	41	11 B		
	K1OQG	3,192	38	29	B		
	K1TN	2,988	29	24	2 B		
	K1ZZ	2,198,180	2064	355	C		
	KA1ILG	243,390	427	190	C		
	K1EFI	232,290	435	178	C		
	K1RU	112,896	384	98	C		
	AA1ER	89,208	252	118	C		
	KG1D	81,066	229	118	C		
	WV1C	48,597	167	97	C		
	W1CNU	42,840	170	84	C		
	K1VWL	37,632	196	64	C 80		
	KA1JVR	6,090	58	35	B 80		
	WA1FCN	4,950	55	30	C 80		
	W6MHK	26,550	177	50	B 40		
	K2S5/1	509,376	1516	112	C 20		
	K8HT/1	36	4	3	B 20		
	K1DII	900	25	12	B 10		
Eastern Massachusetts	K8PO	1,411,410	1645	286	B		
	K1VUT	932,184	1284	242	B		
	N1QY	412,344	664	207	34 B		
	KB1KM	214,848	373	192	B		
	WA1IIML	134,289	347	129	B		
	AA1HB	97,416	284	123	B		
	K6JLF	37,440	160	78	4 B		
	N1EDM	12,948	63	52	B		
	WA1TTE	4,158	42	33	B		
	W1KM	3,163,233	2987	353	C		
	W1LK	749,664	1096	228	C		
	KA1DWX	671,088	902	248	C		
	NC1M	556,110	835	222	C		
	W1AX	419,622	679	206	C		
	AA1KY	91,884	247	124	C		
	KQ1F	87,285	253	115	C		
	N1DS	30,261	131	77	C		
	W1MK	247,776	928	89	C 80		
	WR1P	3,174	46	23	C 40		
	WS1M	263,160	1020	86	C 20		
Maine	N1AFC	182,280	434	140	A		
	WA1WPR	1,680	35	16	A		
	NR1F	8,670	85	34	B		
	KC1XR (at W1KRF)	465,840	647	240	C		
	W1GX	9,963	81	41	C		
	KA1UEH	90	6	5	A 15		
New Hampshire	AA1CA	26,082	161	54	A		
	W1PH	1,277,136	1448	294	35 B		
	AA1HJ	439,560	740	198	B		
	NM1W	91,962	262	117	B		
	KZ1O	19,032	122	52	B		
	KD1ON	9,990	74	45	B		
	AE1D	5,100	50	34	B		
	KM1H (KQ2M,op)	3,613,605	3145	383	C		
	N6BV	2,802,240	2780	336	C		
	WA3ECT	909,714	1391	218	C		
	KZ2TE	704,961	1073	219	C		
Rhode Island	AA1IF	147,420	390	126	B		
	W1RFQ	73,548	227	108	B		
	WA1HYN	72,594	218	111	B		
	K2MME	132,312	596	74	C 40		
Vermont	W3SOH	37,350	150	83	B		
	K1HKI	25,875	125	69	B		
	W1ZK	448,125	625	239	C		
	KD1SG	152,145	345	147	C		
	K1CLN	116,748	276	141	C		
Western Massachusetts	W1CSM	62,445	181	115	B		
	K5ZD	3,463,030	3045	378	C		
	W2SC	2,832,138	2637	358	C		
	N6RFM	217,728	378	192	C		
	W1AUT	59,334	341	58	9 C 20		
	NU1P	270	10	9	A 20		
	WE1B	59,109	323	61	B 15		
2	Eastern New York	W2PTF	40,320	140	96	A	
	W2QYA	8,880	74	40	A		
	W2AZ	7,245	68	35	A		
	W2KHQ	211,071	437	161	B		
	K2RI	48,786	173	94	B		
	K2XA	1,414,530	1395	338	C		
	NA2M	208,152	392	177	C		
	NW2J	67,326	229	98	C		
	N2NFG	33,660	170	66	C 80		
	N2JHO	12,600	100	42	B 80		
	N2IWE	77,307	353	73	C 40		
	K2DW	13,922	108	43	B 40		
	WX2N	26,550	177	50	B 20		
NYC-Long Island	W2HLI	58,103	199	99	A		
	K2QMF	902,304	964	312	B		
	K2SHL	494,730	690	239	B		
	K2ZET	422,136	533	264	B		
	K2KTT	25,308	114	74	B		
	N2MBM	5,328	48	37	B		
	KA2HJ	729,201	1163	209	C		
	W2KPA	24,321	121	67	C		
	WB2AMU	7,455	71	35	B 80		
	NB2V	35,136	192	61	C 40		
	WB2ENW	19,458	141	46	B 40		
	W2TE	3,666	47	26	B 40		
	K2MFY	47,508	214	74	B 15		
Northern New Jersey	AA2U	518,175	735	235	A		
	K2SG	1,422,642	1586	299	B		
	WA2QOA	787,320	1080	243	B		
	WA2SRQ	425,385	685	207	B		
	AA2Z	287,817	487	197	B		
	N2INR	93,744	248	126	B		
	KB2QWO	49,935	185	89	B		
	WNSNTU	47,475	211	75	B		
	N2KJM	42,864	152	94	B		
	W2LRO	14,256	88	54	14 B		
	N2LT	2,859,297	2597	367	C		
	WA2ASM	757,431	1039	243	C		
	W2HCA	101,016	276	122	C		
	K2DM	76,626	258	99	C		
	N2EA	17,877	101	59	C		
	WA2ASQ	7,242	71	34	B 40		
	K2ZBH	7,182	63	38	C 40		
Southern New Jersey	WA2VSO	3,570	35	34	A		
	N2MR	373,464	684	182	B		
	N2PLE	233,496	423	184	B		
	K2ZA	60,768	211	96	B		
	K3GYS	26,910	115	78	B		
	W2CN	25,272	117	72	B		
	W2UL	4,557	49	31	B		
	WA2VYA	753,732	997	252	C		
	N2FY	242,022	418	193	C		
	K3JGJ	44,928	234	64	C 80		
	W2PAU	14,850	119	45	C 80		
	W2ESX	10,783	119	30	C 80		
	W2NZH	8,610	82	35	B 80		
	K3UA/2	7,626	62	41	B 80		
	K2SWZ	8,019	81	33	B 40		
	W2XQ	7,200	75	32	C 20		
	AE2N	13,407	109	41	C 40		
Western New York	W2TZ	1,093,242	1234	271	B		
	WF2L	166,173	287	193	B		
	K5MA	181,454	379	142	B		
	N2PEB	153,972	328	156	B		
	AA2UI	142,002	322	147	B		
	WA2EYA	118,125	315	125	13 B		
	W2OMV	98,756	326	102	B		
	WB2JFP	79,125	211	125	B		
	AA2SU	77,436	239	108	B		
	WA2YSJ	69,336	214	108	B		
	AA2DT	65,208	208	104	B		
	WA2LCC	23,868	102	78	B		
	WF2V	11,130	70	53	B		
	KF2ZW	2,268	28	27	B		
	W2BYO (KA21YB,op)	1,320	22	20	B		
	KW2J	543,168	943	192	30 C		
	K2NV	491,130	765	214	C		
	WB2YQH	331,200	575	192	C		
	WA2ABN	258,762	427	202	C		
	W2QIP	163,800	350	156	C		
	WB2RAJ	155,736	309	168	C		
	K2MP	133,650	297	150	C		
	AJ3K	133,110	306	145	C		
	W1ZR	12,312	72	57	C		
	KB2SE	8,601	61	47	C		
	WA2BQI	3,024	36	28	C160		
	W2VVO	8,180	75	36	C160		
	N2AU	74,181	313	79	C 15		
	WB2DVU	240	10	8	B 10		
3	District of Columbia	WF3J	463,388	649	238	C	
Delaware	AA1K	1,993,005	2109	315	C		
	K33F	813,312	1059	256	C		
	W3NX	207,360	384	160	C		
Eastern Pennsylvania	K2PH	604,632	854	236	B		
	W3TW	250,767	447	187	B		
	N3RW	248,976	456	182	B		
	KB3MM	222,264	392	189	B		
	AA3FY	146,412	332	147	B		
	W3QIR	97,110					

N7LOX	110,160	408	90	B
N7HUS	91,368	324	94	B
W7RGL	15,504	136	38	B
AA7VT	3,828	58	22	B
N6HR	286,200	600	159	21 C
W70M	166,850	505	110	C
W707	100,544	394	122	C
W7G5W	28,800	149	64	C
W7HR	7,308	87	28	C 80
N7RO	202,119	757	89	B 20
WA0RJY	129,402	546	79	B 20
N7IRR	97,017	443	73	C 20
K7NPN	74,277	393	63	48 B 20
W7QN	20,460	155	44	B 20
W7VIH	312	13	8	B 20

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Michigan

KB8TI	287,382	454	211	28 B
K8OLK	122,688	284	144	B
N8KSO	76,956	242	106	B
K8LJG	41,553	171	81	B
WB8BUQ	3,780	42	30	B
N8EA	159,588	341	156	C
W8RC	89,559	279	107	C
AA8U	2,016	28	24	C160
WB8UVZ	12,900	100	43	C 80
W8UD	92,130	415	74	C 20
W8WVU	49,572	243	68	B 20

Ohio

ND8L	114,879	257	149	43 B
WB8YRS	112,814	274	137	45 B
WB8UPH	108,664	288	126	B
K9ALP	99,828	236	141	17 B
K8BL	84,420	210	134	B
N8AA	72,594	222	109	B
W8BE	60,003	177	113	B
K8AOUT	46,992	176	89	B
K8OUA	24,192	112	72	4 B
W8GOC	12,450	83	50	B
W8DWP	11,475	75	51	B
W8IDM	10,143	69	49	B
AF8C	7,257	59	41	B
KB8KW	4,356	44	33	B
W8RSW	286,578	522	183	C
N8AAT	276,552	501	184	C
N8FU	234,720	489	160	C
W8NPF	98,952	266	124	C
K8SJ	49,302	186	99	C
N8CV	41,400	164	75	C
N6WLX/B	37,632	128	98	C
N8QVI	7,605	65	39	4 C
WB8JNF	6,786	58	39	24 C160
W89RV	1,350	25	18	B 40
W8PB	35,478	219	54	B 20
KB8NTY	25,056	144	58	B 20
W8PJ	13,920	116	40	A 20
NG3Q	5,859	63	31	B 20

West Virginia

KV8S	56,430	190	99	A
N8YYS	17,588	96	61	B
K3JT	647,829	791	273	C
K8OQL	561,720	755	248	C
N4ZR	138,666	382	121	C
WA8YTM	91,773	297	103	C
W9LT	91,584	424	72	C 80
K8UC	10,962	87	42	B 15

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Illinois

N9RIT	507	13	13	A
NA1R	286,500	500	191	B
K9MMS	262,440	486	180	B
W9LNU	92,268	233	132	B
W9SZ	92,106	238	129	B
AK9N	57,528	188	102	B
WA9AXL	36,900	150	82	B
K9PPW	19,422	83	78	B
KA1J	16,995	103	55	B
N9JF	15,732	92	57	B
W9CA	13,515	85	53	B
NT9MU	396	12	11	B
KE9EX	396	12	11	B
WB9IIQ	701,325	1039	225	C
WA9TPQ	400,218	733	182	C
W09S	238,095	407	195	C
W9OA	211,410	435	162	C
NM9C	113,685	265	143	C
K9UQN	80,250	250	107	C
NA0GW	59,670	221	90	C
W9BZ	10,332	84	41	C160
W9PNE	429	13	11	C160
K9BGL	40,755	209	65	23 C 80
N2CS	3,321	41	27	C 80
W9CH	48,618	219	74	B 40
N9ENA	2,346	34	23	B 40
AA9NQ	75	5	5	B 40
KA6A	212,760	788	90	C 20
W90F	145,992	553	88	C 20
K9BG	104,598	447	78	B 20
K9OM	7,665	73	35	C 20

Indiana

KJ5C	200,640	380	176	26 B
K09Y	170,724	347	164	B
W9RE	1,928,520	1948	330	C
W9NO	592,959	827	239	C
W9JO	29,754	171	58	B 20
K9VQK	5,115	55	31	C 15
K9LA	7,029	71	33	C 10

Wisconsin

N9LNU	64,296	188	114	A
WD9IAB	1,323	21	21	A
W9HE	156,165	359	145	B
N9IC	129,219	295	146	B
K80DMV	29,388	124	79	B
W9CBE	11,250	75	50	B
K9MA	983,292	1223	268	C
W9YCV	8,775	65	45	C
W9GXR	11,745	87	45	C 80

N0BSH	24,180	124	65	C 40
N9GBL	5,148	52	33	B 20
W9GIL	78,561	301	87	C 15

0

Colorado

W3GRW	178,200	440	135	B
K8QBL	107,406	306	117	B
K0RF (W9UA,op)	1,900,962	1974	321	C
W4ETO	246,297	551	149	C
N0ZA	142,830	345	138	C
KJ0G	74,670	262	95	C
W0RA	47,538	278	57	18 C
K0CS	1,428	28	17	C160
AA6TT (AA5B,op)	57,828	316	61	C 80
W0CP	51,480	260	66	C 40

Iowa

K8OAM	167,706	363	154	B
WW0Q	11,178	69	54	C
N9YV	17,568	96	61	C 40
W0KF	2,838	43	22	B 40
W00F	1,170	26	15	C 15

Kansas

N0FMR	87,636	268	109	B
K0VGB	46,440	172	90	B
W0YRN	5,355	51	35	B
W08R	76,953	227	113	C
K0BJ	15,876	108	49	C
K00EI	2,592	36	24	C 80

Minnesota

KI0F	57,000	200	95	B
K0JA	6,678	53	42	B
K0JE	3,840	40	32	B
K0KX	626,733	839	249	C
W0ML	141,570	363	130	C
W0HW	118,293	301	131	C
WE0Q	34,443	129	89	C

Missouri

K50M	68,817	203	113	10 B
KA0P	10,404	68	51	B
AA0NB	10,260	76	45	B
WA0OU	10,050	67	50	B
AA0LU	1,242	23	18	B
K0IFL	58,491	201	97	C
NS0Z (N9J,op)	3,666	47	26	G160
K4VX (W9WL,op)	373,626	1221	102	C 20

North Dakota

KI0E	31,860	150	71	C
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Nebraska

K0SW	187,712	304	151	15 B
NW0F	97,275	175	71	B

South Dakota

N0IGP	6,837	53	43	B
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New Brunswick

VE9ST	471,240	1496	105	C 20
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Newfoundland

VO1MP	1,070,013	1421	251	B
VO1SF	58,764	296	83	B
VO1AH	13,083	89	49	C

Nova Scotia

VE1UK	254,364	451	188	C
VE1RAA	7,524	76	33	C 10

Quebec

VE2ABO	5,880	49	40	A
VE2AWR	226,026	433	174	B
VE2GHI	50,490	170	99	B
VE2AYU	606,912	928	218	C
VA2AM	64,935	195	111	C
VE2FFE	16,836	92	61	C
VE2ZP (U2J,op)	469,056	1396	112	C 20

Ontario

VE3IAY	180,009	339	177	B
VE3BRZ	143,988	338	142	B
VA3NR	131,328	288	152	B
VE3ST	16,992	96	59	B
VE3HMD	16,065	85	63	B
VE3KP	546,336	813	224	C
VE3XL	356,400	660	180	C
VE3OSZ	1,482	26	19	B160
VE3RM	23,550	157	90	C 80
VE3NYT	16,497	117	47	B 40
VE3KUK	28,044	164	57	C 20
VE3ISN	3,354	43	26	B 20
VE3HX	5,490	61	30	C 10

Manitoba

VE4YU	19,500	130	50	B
VE4JB	116,022	317	122	C
VE4MF	8,721	57	51	B

Saskatchewan

VE5SF	185,757	433	143	25 B
VE5GC	26,796	154	58	B
VE5CN	9,126	78	39	B 20

Alberta

VE6SH	23,364	118	66	A
VE6BF	158,796	401	132	B
VE6BMX	73,248	224	109	13 B
VE6EZ	32,361	161	67	C

British Columbia

VE6JO	118,080	328	120	B
VE7CYT	1,014	26	13	B
VE7QO	214,110	549	130	C

Northwest Territories

VE8NC	4,200	50	28	B
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Yukon

VY1JA	67,056	254	88	17 C
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Single Operator, Assisted

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AD1C	2,809,716	2324	403	C
K1IU	2,250,309	2011	373	33 C
KC1F	1,774,566	1902	311	C
K1JKS	1,379,190	1483	310	C
K21M	1,346,220	1385	324	C
K2SX/1	1,312,832	1418	309	C
N4XR	1,261,740	1237	340	C
W1NG	1,259,802	1173	358	C
W1FJ	686,202	814	281	C
WA1G	658,350	825	266	18 C
AK1N	612,360	756	270	C
KS1L	608,375	625	285	B
WS1E	605,274	718	321	C
W1JR	471,678	619	254	C
K1GW	442,221	667	251	C
WW1E	380,268	503	252	C
K1HMO	378,972	522	242	C
K1FWF	360,450	450	267	C
NQ1K	298,800	415	240	15 C
WA1KSY	284,769	477	199	C
W42TF	257,808	524	164	C
K1JB	255,936	496	172	C
W1RM	251,286	434	193	B
WB2DND	233,382	401	194	C
WB1DFI	183,708	324	189	C
WC1M	149,760	320	156	C
KA1CLV	135,780	310	146	31 B
N1QMM	123,225	265	155	C
WO1P	120,540	245	164	C
W1BK	102,789	243	141	C
WA3TXR	100,485	231	145	B
N1OPZ	78,975	225	117	C
N1MM	44,892	172	87	C
W1OG	35,784	168	71	C
N1VOD	31,248	112	93	C
WF1B	26,700	110	81	B
WS1A	24,072	118	68	B
WU1F	15,372	84	61	B
K1BG	816	17	16	C

2

K12M	3,769,866	2869	438	C
K5NA	3,041,472	2336	434	C
K2WK	2,011,716	1774	378	C
K2BU	1,777,095			

Swaziland	JA3ARM	45,369	213	71	C	DL2GBB	29,106	154	63	B	F6HNX	21,384	198	36	B 15	LA2O	58,563	241	81	B
3DA/ND3A	JH7QXJ	34,992	243	48	C	DL1ARK	24,960	160	52	B	F5TCN	15,873	143	37	B 15	LA3UG	10,692	81	44	B
Senegal	JH2BCN	20,298	199	34	C	DL6AXI	24,192	126	64	B	England									
6V6U (K3IPK,op)	JA2SWF	14,628	106	46	C	DL2HWI	24,024	154	52	B	G4FDC	54,288	232	78	A	LA9EDA	429	13	11	B
4,542,060	JA2QVP	13,920	116	40	C	DL1ZQ	20,874	142	49	B	G00RH	504,504	1078	156	B	LA7DHA	306,588	881	116	C
Madiera Islands	JH3WKE	12,084	106	38	C	DL5LRA	18,444	116	53	B	G3KNU	179,670	530	113	B	LA4LN	1,044	29	12	C 80
CS3T (CT3FT,op)	JH3GIM	6,804	63	36	C	DL2ARD	11,700	100	59	B	G4LJI	155,354	484	107	B	LA4EJ	2,340	39	20	B 40
306,663	JA7N	1,122	34	11	C160	DL5MFF	11,400	100	38	B	G3RSD	91,665	315	77	B	LA6PB	1,638	42	13	B 40
859	J1AISAI (K8HTV,op)	135	9	5	B160	DL1EMV	11,187	113	33	B	G5MY	74,715	293	85	B	LA1VL	1,125	25	15	B 15
119	JH1GNU	15,225	145	35	7 B 80	DL6JRA	10,200	100	34	B	G4ZME	59,052	259	76	B	Lithuania				
Canary Islands	JF6DSZ	4,478	62	23	C 80	DL3NEO	10,098	102	33	B	G3SEF	37,062	213	58	B	LY3BA	81,528	344	79	A
EA8EA (OH2MM,op)	JA0AQ4	2,304	64	12	B 80	DF4QP	8,556	92	31	B	G3JKY	35,904	187	64	B	LY2RF	22,275	135	55	B
4,891,512	JA1WYQ	1,320	40	11	C 40	DL4FDM	7,222	73	33	B	G0MRH	24,912	173	48	B	LY2PB	3,312	46	24	B
EA1AK/EA8	JJ1NNJ	86,850	579	50	C 40	DL2VLA	6,090	70	29	B	G4BUO	2,049,180	2788	245	C	LY2LA	70,080	292	80	C
161,616	JA1JJK	60,624	421	48	C 40	DL4JTH	2,907	57	17	B	GB5AR (K3RV,op)	1,870,026	2746	227	C	LY6K (LY3BS,op)	31,977	323	33	C 80
EA8CN	JA6SHL	53,595	397	45	C 40	DL8UAD	2,337	41	19	B	G2QT	453,048	878	172	C	LY2FN	8,910	99	30	B 20
EA8ZS	JH0FVJ	38,130	310	41	C 40	DL8JQO	1,266	7	6	B	G5LPL	154,500	412	125	C	LY2BY	3,480	58	20	B 20
Sao Tome & Principe	JA1NUT	34,146	271	42	C 40	DL2MEH	17,106,664	1818	216	C	G3NKS	111,300	371	100	C	LY3CJ	20,196	187	36	C 15
S92SS	JABUV	22,260	215	35	B 40	DL8FD	1,058,634	1713	206	C	G4BUE	100,815	412	117	C	LY2OZ	19,992	196	34	C 15
Ivory Coast	JM1CMA	2,122	62	24	B 40	DL4RDJ	555,504	1136	163	C	G0MLX	56,088	795	47	C 80	LY2BB	4,032	64	21	B 15
TU2MA	JAXXRN	5,460	70	26	B 40	DL2GQ	520,261	151	147	C	G3MKV	173,712	1034	56	C 40	Bulgaria				
Chagos Islands	JK3GWT	3,504	73	16	B 40	DL1JF	347,340	827	140	C	G4IQM	7,722	117	22	B 40	LZ1IQ	53,463	251	71	B
VQ9TP	JA5IP	2,346	46	17	C 40	DL2DX	200,421	571	117	C	G3IGW	61,950	413	50	C 20	LZ1JZ	3,213	63	17	C
South Africa	JA1XEM	2,028	52	13	C 40	DK7FP	176,580	545	108	C	G3TFX	205,200	1200	57	C 15	LZ2PP	18,696	164	38	C 80
ZS95WRT (ZS6AJ,op)	JA1CSB	1,755	45	13	B 40	J9JRR	107,724	382	94	C	G4IUF	9,120	95	32	C 15	LZ7W (LZ5DB,op)	213,285	1205	59	C 40
316,800	JA2PTS	1,323	49	9	B 40	DL8UCC	81,081	273	99	C	Scotland									
ZS1AFZ	JA7FFN	1,155	35	11	B 40	DL9SEV	67,320	264	85	C	GM3XNJ	92,340	405	76	B	LZ1PM	56,892	431	44	C 40
ZS6RI	JA4HIX	1,053	39	9	B 40	DL1ALX	40,800	200	68	C	GM3ZAS	44,460	260	57	B	LZ2JE	8,262	102	27	C 40
Antarctica	JR3RIU	990	30	11	C 40	DL8U8D	2,160	36	20	C	GM3MHG	58,077	239	81	C	LZ2RS	16,182	174	31	A 15
VU0AT	JR9RIU	390	30	11	C 40	DF3OL	957	29	11	B160	GM3POI	246,060	1367	60	C 20	Austria				
UA3YH/KC4	JH3EJU	999	19	7	B 40	DK5AD	29,274	287	34	C 80	GM3CSF	17,214	151	38	B 20	OE1AKB	30,780	171	60	B
Asia	JA0GZ	315	7	4	B 40	DL7VBM	5,100	85	20	C 80	Finland									
Azerbaijan	JLXQAT	132	11	4	B 40	DL7ZAE	86,877	591	49	C 40	OH2YL	13,320	111	40	A	OH8BQT	63,000	300	70	B
4K9W	JL7PVR/1	54	9	2	B 40	DK9FE	75,294	534	47	C 40	OH2KI	9,690	85	38	B	OH7NW	5,346	54	33	B
Sri Lanka	JA1POS	36	4	3	B 40	DL7ALM	25,740	200	39	C 40	OH6NV	112,728	488	77	C	OH6NEV	51,756	227	76	C
4S0AA (K5GO,op)	JA7SSB	84,987	497	57	B 20	DF3IAL	17,184	179	32	B 40	OH3MMH	34,632	222	52	C	OH8LQ	231,693	1309	59	C 20
57,981	JA0DWW	83,790	490	57	C 20	DL3JAN	4,332	76	19	B 40	OH1NOR	115,554	871	58	C 20	OH4MF	45,930	300	51	B 20
Israel	JA7GAX	58,512	368	53	C 20	DL6CIA	4,320	72	20	C 40	OH3NM	1,872	39	16	B 20	OH2BCD	1,683	33	17	C 15
4X1V1	JR4PMX/1	48,360	310	52	B 20	DL7AA	196,620	1130	58	C 20	OH4ZM	561	17	11	A	OH5FA	4,320	60	24	C 15
4XV3EJUCW	JF1SQC	29,640	247	40	7 B 20	DL5LA	133,056	792	56	C 20	Hungary									
Kuwait	JA5APU	29,532	214	46	C 20	DL9LBI	4,914	78	21	B 15	HA3MQ	440,628	1006	146	B	HA2YV	74,970	510	49	C 15
9K2ZZ	JA1KFX	25,074	199	42	B 20	DL3ME	2,460	41	20	B 15	HA7PW	56,682	282	67	B	HA7WV	37,420	306	41	B 15
Singapore	JF1SIVY	17,520	146	40	B 20	DL8MT	2,451	43	19	A 15	HA8PH	39,270	238	55	B	HA8MV	13,260	130	34	C 15
9V1YC	JM7GJT	10,820	104	35	B 20	DL3MG	2,460	41	20	B 15	HA8BQ	13,440	160	28	B	HA8DX	3,036	46	22	A
Qatar	JA0BYS/1	10,881	117	31	B 20	DL8MTG	2,451	43	19	A 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
A71C (SP5EXA,op)	JG1GCO	18	3	2	B 20	DL3OCG	210	10	7	A 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
91,047	JA7FTF	124,320	740	88	C 18	DL9LBI	4,914	78	21	B 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
Saudi Arabia	JL1UNR	40,672	324	51	B 15	DL3ME	2,460	41	20	B 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
HZ1HZ	JL1MWI	25,963	211	41	B 15	DL3MG	2,460	41	20	B 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
7Z5OO (K3UOC,op)	JA0BMS/1	17,880	180	33	B 15	DL8MTG	2,451	43	19	A 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
37,107	JE2PCY	17,677	189	31	B 15	DL3OCG	210	10	7	A 15	HA8BQ	13,440	160	28	B	HA8BQ	13,440	160	28	B
Japan	JABIF	6,210	90	23	C 15	Spain														
JA6BWH	JL6TWD	4,788	84	19	B 15	EA7AAW	98,808	358	92	A	EA7HCB	6,192	48	43	A	EA7HAT	548,574	1082	169	B
7M2KXI	JH8DWH	4,140	69	20	B 15	EA7HCB	6,192	48	43	A	EA3FHN	498,456	1032	161	B	EA3DRK	183,240	509	120	B
JE0UXR	JH0HON	1,140	38	10	B 15	EA3FHN	498,456	1032	161	B	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B
JH4UYB	JH6EHN	930	31	10	B 15	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B
JR2BNF/1	JA2GHP	525	25	7	B 15	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B
JA6JUM	JQ3JUG	188	8	7	A 15	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B	EA3BNU	123,316	403	102	B
J51OYN	JH1HGC	228	19	4	C 10	Asiatic Russia														
JA9DDF/2	RA0FU	466,844	1051	148	C	RA0FU	466,844	1051	148	C	UA0QJ	300,564	728	138	C	UA0FZ	299,130	767	130	C
JA2BY	UA0QJ	300,564	728	138	C	UA0FZ	299,130	767	130	C	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80
JH2AMD	UA0FZ	299,130	767	130	C	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80
JH8AJE	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80
JH7BMZ	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80	UA0IBB	1,323	63	7	C 80
J13BFC	UA0IBB	1,323																		

Phone

WVE

Single Operator

1

Connecticut

Table of phone numbers for Connecticut, including KA1CZF, NM1K, K5FUV, KD1TM, KA1MH, AA1CB, N1PUW, N1OFO, K1RU, K1EFI, WV1C, N1QVE, K1VWL, K51L, K1DII.

Eastern Massachusetts

Table of phone numbers for Eastern Massachusetts, including KB1KM, K8JLF, N1PGA, W1MK, W1GOU, N1HKV, WU1F, W01N, K1HRF, W1ATITE, W1KRS, KA1DWX, K1YDG, W1FJ, KA1VY, W1DO, KQ1F, WA1LXP, AA1LJ, K1KJT, WK10.

Maine

Table of phone numbers for Maine, including K1DWQ, W1GX, W1CEK, KQ1F, N1AFC.

New Hampshire

Table of phone numbers for New Hampshire, including W1PH, WS1A, WA1LNP, KD1ON, KM1H, N6BV, W2IQL.

Rhode Island

Table of phone numbers for Rhode Island, including K2MN, AA1YG, WB1FDM, WA1QXR, W1RFQ, WA1MKS, K1VYS, N9LYE.

Vermont

Table of phone numbers for Vermont, including W3SOH, KD1XD, K1CLN, K1HKI.

Western Massachusetts

Table of phone numbers for Western Massachusetts, including AA1EY, WR1X, KD1KI, KV1W.

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Eastern New York

Table of phone numbers for Eastern New York, including KD2NE, W2KHQ, K2RH, N2JDN, N2QIP, AA2OI, KB2PFP, K2TR, KD2BW, WA1MKE, WX2N, N2MTG.

NYC-Long Island

Table of phone numbers for NYC-Long Island, including W2BZH, W52EN, K2LJH, W2MQY, K2QMF, N2ZFP, WA2OVG, K2MFY, K52G, KC6EY/2.

Northern New Jersey

Table of phone numbers for Northern New Jersey, including AA2J, W2ASQ, WA6QQA, K3FNW, N2INN, N2JKM, W2LRO, N2LT, K2DM.

Table of phone numbers for New Jersey, including WA2ASM, WA2JDT, W2VJUM, KB2POP, N2CFD, W2KXD, N2NT, AA7QZ/2, WA2QNW, W9NTU.

Southern New Jersey

Table of phone numbers for Southern New Jersey, including N2MR, K2BQW, N2PKN, W2ORA, WA2VSO, N2VFN, KA2YKN, W2CN, W2FGY, K2SWZ, KD2AE, W5KI, WA2DUE, WA2VY, W2BYOF, N2JAW, K2PS, W2PAU, KZ2I, N2FY, WA2ZZX, AD3Y, AA2QE, K3JGJ, N2YCD.

Western New York

Table of phone numbers for Western New York, including W2TZ, W2BRAJ, NA2A, W2MWW, N2PEB, W2OMV, W2BJFP, N2LQJ, N2DBI, AJ3K, W2BYQH, WR2V, KA2DWW, W2QJP, WA2ABN, W2IMO, KB2BW, W2JO, AA2TN, N2WLG, W2BDVU, W2VO, KB2NU, N2YLG.

District of Columbia

Table of phone numbers for District of Columbia, including W9DQ, W9FJ.

Delaware

Table of phone numbers for Delaware, including N3MTU, AA1K.

Eastern Pennsylvania

Table of phone numbers for Eastern Pennsylvania, including NY3Y, W3BWA, N3BDA, N3RW, AA3FY, WB3LZN, K3NL, W3SGN, K3DOX, K3ATO, K3TEJ, AD3Z, N3JCL, W3QIR, W3EUV, KQ3V, KB3AGZ, W3EHZ, W8J.

Maryland-DC

Table of phone numbers for Maryland-DC, including W3JU, N3JUN, WK3H, N3PGG, K3QOY, WK3V, N3GBP, KE3RA, K3ZO, K3IXD, W3FOE, W3JN, N3OKR/3, WB2BZR/3, N2TDT, W3GN.

Western Pennsylvania

Table of phone numbers for Western Pennsylvania, including AD8J, WB3FS, KB3AFT, KA3AB, K3TUP, K3CMR, N3I, NW3C, W3GH, W3KHQ, K3MD.

Table of phone numbers for Alabama, including N3OOJ, N3OWF, WB0WNG, K4JVT, W4ZF, W4NTI, K3IE, KE4BM.

Georgia

Table of phone numbers for Georgia, including NH6SR/4, K4BAI, K4OGG, K4EZ, W4CEB, K4JRB, AE6E, KD4FTY, WL7CBN/4, KB4ZFA.

Kentucky

Table of phone numbers for Kentucky, including KD4LHA, KI4DC, KR4KL, N4CBR, KC4DWT, K2YJL, KD4DBN.

North Carolina

Table of phone numbers for North Carolina, including WA1EHL, KR4IN, KE4LJM, N4UJ, AA4S, WF2G, W9ZV, K8CFU, K2IBW, K4RZ, KC4YM, N4MO, K5LZT, WA4YNP, KE4HXU.

Northern Florida

Table of phone numbers for Northern Florida, including KAUTE, KC4FWS, KB4PK, AB4KL, WA4KQ, W3EKT/4, AC4NJ, KA4JY, K4QGC, W4VQ, KD4HXT, W9CNF/4.

South Carolina

Table of phone numbers for South Carolina, including K4CSB, N4CYG, W4DFJ, W3VT, W4JKC, NE4G.

Southern Florida

Table of phone numbers for Southern Florida, including KC2X, KJ4WH, AC4IV, KB4LCR, KF4MA, KB05F, W4W4K, K1FIR, KN4JN, W2SDB/4, KE4TRA, N4TO, W1ENZ, W4N00, W4PZV.

Tennessee

Table of phone numbers for Tennessee, including N1CWR, K1AKR, W4AY, N4LZL, W4QZG, W4NL, W4SKUI, W5HVV.

Virginia

Table of phone numbers for Virginia, including WA4FHQ, WF4U, KD4HYT, K4FPF, WA4JUK, K4UK, K4ACZ, N6MW, K4MU, N4MM, KE9A, W4LMJ.

Table of phone numbers for West Virginia, including KQ4NR, KC4GIA, W4RSL, W3FTG, K9VAP, N3PDK, KD4IBI, KE4GWW.

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Arkansas

Table of phone numbers for Arkansas, including W5EJL, N8V.

Louisiana

Table of phone numbers for Louisiana, including NSOZB, N2SO, AB5HD, KK5BW, K5KLA, W5WMM.

Mississippi

Table of phone numbers for Mississippi, including W9KTB/5, KJ5YM, KV5F, NSQDE, W5ASOY, N5FG.

New Mexico

Table of phone numbers for New Mexico, including KN5S.

North Texas

Table of phone numbers for North Texas, including NMSM, W6KJ, W5CWO, K5XWZ, KK6IT, K5IG, N5IM, W5RNF, K5YN.

Oklahoma

Table of phone numbers for Oklahoma, including KB5ZUD, NSRFX, NSOHL, KQ5X, W5BSVH, W5AFC, W5AFY, N5UJ, W5TZN.

South Texas

Table of phone numbers for South Texas, including KA5PB, W5BYX, W5QCL, AC5AA, W5GJY, W5DQA, K5OC, W5ASP, N5NMX, KC5HP.

West Texas

Table of phone numbers for West Texas, including W5SDX, N25M.

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East Bay

Table of phone numbers for East Bay, including KG6LF, WX6M, KQ6IG, W6BSY, KM6VD.

Los Angeles

Table of phone numbers for Los Angeles, including WA7BNM, KJ6HO, WA6URY, N6IC, W6NFO, N8IBP, K6ZLT, N6GL, N6TCZ, K6XK, KJ6ZH, KG6AR, K6GXYX, NY6Y, KN6DV, W6OK, KU6T, K6SVL, N6KA, W6DN, KQ6AX.

Orange

Table of phone numbers for Orange, including W6BH, K6RGR, KB6GKH, K6KZV, N6VE, N6UC, WA6WPG, NWSG, WA6FIT.

Santa Barbara

Table of phone numbers for Santa Barbara, including N6ZAR, W6SWM, WA6FGV, AA6Q, W6TKF, W6UM, N6HK, WZ6J.

Santa Clara Valley

Table of phone numbers for Santa Clara Valley, including N6NF, K6ITL, W6PLJ, AA6KX, K6HNZ, AB6YL, N6IP, K6GX.

San Diego

Table of phone numbers for San Diego, including W6QZA/6, W6CN, AA6EE, W6JVA, KQ6JZ, W6WTKT, W6WVW, W6UQF.

San Francisco

Table of phone numbers for San Francisco, including W6BPI, AB6WP, W6ESJ.

San Joaquin Valley

Table of phone numbers for San Joaquin Valley, including W6BTF, W6GH, N6SPP, K6BHRB, N6YKL, KQ6EC, N6IFW.

Sacramento Valley

Table of phone numbers for Sacramento Valley, including N6JM, W6ACMM, K6VX, K6DR, K6NKR, K6RN.

Arizona

Table of phone numbers for Arizona, including AA7VY, W7Y3, K7HND/7, N7JXS, N7DD, W7AYY.

Eastern Washington

Table of phone numbers for Eastern Washington, including K7MM, K7FR, W7WKB.

Idaho

Table of phone numbers for Idaho, including AA7UN.

Montana

Table of phone numbers for Montana, including W07B, KG7VQ, N7MSU, K7CUP, W7LR, K7ABV, N7ML, N9TX.

Neveda

Table of phone numbers for Nevada, including KQ7DB, N7WVQ, AA7CY, N7XCZ.

Oregon

Table of phone numbers for Oregon, including KA7ZUM, AA7FL, N7AVK, K7CEM, K6XZ, W7FP, W7JS, KA7FEF, KB7LQ, W7YAQ.

Utah

Table of phone numbers for Utah, including K6XOR/7, WA6HXE, K7KTA, W6CF7, W7HS.

Western Washington

Table of phone numbers for Western Washington, including W7QW, WA0RJY, W7RGL, K7KJUZ, WA7FOE, N87N, W7OM, W7GSW, W7HR, N7RO, W7LZP, N6HR.

Wyoming

Table of phone numbers for Wyoming, including K7PNH, N7MZD, N7CZY, K7BM, W7SE, N7SDI.

Grenada J37K (W8KX,op) 3,975,276 5156 257 C	Brunei V85BJ 3,735 83 15 B	Australia VK5GN 555,216 1076 172 C VK4MZ 232,200 774 100 C VK2ILK 11,220 85 44 C VK1PJ 8,736 91 32 C VK3EW 136,455 827 55 C 40 VK2APK 19,380 170 38 C 40 VK1FF 924 22 14 B 40 VK5QX (N6AA,op) 624 16 13 C 40 VK4ICU 27,720 231 40 B 15 VK6YY 390 26 5 B 15 VK2GAH 7,392 88 28 C 10 VK4EMM 3,990 95 14 C 10 VK2EQ 1,200 50 8 C 10	ZZ1Z (PY1NEZ,op) 19,950 175 38 B PR0R (PP5UR,op) 3,524,328 4737 248 C PS2S (PY2KP,op) 926,870 1955 158 C PT7BSH 417,753 1047 133 C PT7VB 63,291 289 73 C PY8AJD 90,789 571 53 C 40 PW6CZ 40,032 278 48 C 40 PY1LI 101,088 624 54 C 20 PS8ET 6,882 74 31 C 20 PV4B (PY4OY,op) 459,492 2596 59 C 15 PV8ZDC 294 48 B 15 PU2MTS 72,750 485 50 B 10 PU2VJ 2,700 50 18 B 10	E17M (E14s BZ,HQ,E17DNB,E18GS,ops) 791,505 1599 165 C G3OZF (+G4s DQW,JVG) 734,712 1331 184 C EA1FDG (+EA1FBU,EC1D1H) 420,912 883 58 B HB9AUS (+HB9s CXZ,FAZ,STL) 405,816 914 148 C IQ4T (I4s DZ,IFL,MNY,IK4s DCW,FAZ, HVR,ops) 401,376 904 148 C I12K (I2s GXS,KHM,UPG,IK2s MMF,QEI, SGF,UCK,ops) 384,891 923 139 C O29EDR (O21s FTE,KRF,ops) 342,000 912 125 C EA3RKG (EA3s BOW,BOX,DGQ,EIO,ops) 280,860 765 124 B GB6AR (G4s XFA,XKX,G0KJ,V,ops) 272,160 672 135 C U77W (UR5s WAN,WCV,UT7WZ,ops) 145,530 539 90 C EA5Z1 (+EA5GKE) 144,576 502 96 C 8S3BG (SM3s CER,DMP,JLA,PZG, RAB,ops) 72,000 375 64 C IR5B (IK5s EEE,MEQ,VLO,VZC,WWB,ops) 57,330 294 85 C IO2L (IO2KW,IK2UWE,ops) 39,884 196 68 B OK2RAB (OK2s HBY,POK,PEM,ops) 29,700 199 50 B T01E3C (T04s KW,ZY,T95MKW,ops) 17,289 113 51 C OZ5EDR (OZ11VA,OZ5s ABD,LH,OZ6V, OZ7AAQ,OZ8NJ,ops) 9,450 90 35 B SP6YFU (SP6s NVK,OPE,ops) 5,346 66 27 B SP5OP/P (SP6s DVP,IHE,ops) 2,709 43 21 B	Multiplexer, Two Transmitters Africa 6V6U (6W1QL,6W6JX,K3IPK,N3RUS,ops) 5,923,584 6856 288 C EA9IE (+EA9s AM,HE,LR,L,Y) 1,279,830 2306 185 C Asia JA3ZOH (JH3PR,J130PA,JF4FUF,ops) 525,789 1243 141 C JA1YXP (JL1SIF,JM1UWB,7K1EWD, 7L1ETO,7M1WVZ,7N1W1Y,JL7CMG,ops) 256,641 847 101 C JR1ZTT (JE1ATM,JR1LWQ,7L1XCM, 7K2CWT,JE3QNK,JJ3PKB,7K3RS, 7M3ERG,JE4EY,JI4VPV,JI4FYH,JL6MPR, JH7OHM,JE0BK1,JF0MQX,JR0UUU,ops) 202,980 796 85 C Europe EA3CCN (+EA3E2D) 1,038,216 1912 181 C OH7AAC (OH4LTK,OH6LNI,OH7s KIR, MHL,ops) 457,098 1073 142 C RK2FWA (RA2FA,UA2s FF,FX,FZ,ops) 456,834 1022 140 C North America VP2MFM (W2HFF,KA4RRU,K1MVG, K04FM,W4MYA,WB4NFS, W04KXB,ops) 13,117,104 13013 336 C XE2DV (+XE2DU,N2WEW,A17B) 10,554,264 10227 344 C C6AHG (W1UA,N4FD,N79U,ops) 4,841,894 5434 297 C Multiplexer, Unlimited Transmitters Asia JA1YDU (JO1BMV,7K1DGK,JA9VDA, JH0NZN,JR8JFM,ops) 783,216 1554 168 C Europe 9A1A (9A2s DQ,EU,HO,LJ,MP,OG, RA,9A3s GW,NR,WA4IMC,ops) 2,112,462 3102 227 C UU5J (UU1JA, UU2s JQ,JZ, UU3JD, UU5JR,UU0JX,UB7-067-2,ops) 312,018 782 133 C EM21 (UT2s IA,IO,IM,IO,IV,I,Z, UR3IKY,ops) 188,478 566 111 C Checklogs CW UN7BY, PA3ASC, SM6BWO, PA3GKS, PA0RBA, UR5GDP, OE3GEA/TI2, IN3NOR, SM6YEP, SP9M9J, EA4FW, LZ1KBB, SM0CSX, OK2SNW, SP4EAC, SP5FLB, RA1AC, DL3ARX, LZ3H, SM6FFZ, SM6OLL, 9A2DU, VK3BV, DL5JA, SM6CMR, EA2BSN, VK4UR, IS0KRX/S, W3GH (W3XR,ops), W6CF, VE3BR, W8L7Y, W2HAZ, W0DFTW, VE1ACU, VO1CA, KX7J, K6FM, OZ7OB, YO8RL, ON1 NIT01, 9Y4VU, UA0ZDA/MM1, V44KA0, G01DE, HB9LDO, DL5AMF, SP3FZN, EA5SM, LUS5E, SM6MN, DL7VAF, LA8LA, Y08KS, JR1XKU, LA9PHA, LA5MT, LA4KF, LA4OGA, SP3ES, HA5AEX, OH3ES, EA5CEC, SM0HPL, UA3JU, EW6BL, SM5BU, ON4UN, UX51, K6NA, SM6BGA, DJ0SH, DL8DQI, SP8JMA, PA3BWB Phone EA5GCT, W3GH (W3XR,ops), EA3GBU, L13SFP, EA3ALV, UJ0UN, W7BCK, KF7CQ, SP6FJ, SP5GKN, WP4LV, KX7J, KEBEU, YV2FEQ, EA3GD, CE4ETZ, EA5LV, KL7IDA, HP1DGX, EA3EVR, EA7BY, Y08ANX, PA2ALF, PY3KID, LA2AD, VO1CA, EA8BXQ, ON4UN, SM0CSX, SM2CSX, EA5BK, EA1KW, S57AD, EA5GQZ, SP3CY, EA1APS, OH6NV, LA4BN, V58BG, OE1GQA, YC3JUEM, VE4AAU, TG0AA (KA9FOX,ops), SM2UGV, UA0ZDA/MM1, IK1MEG, EA4BJD, VK2MSD, NQ9M.																											
Alaska WL7EF 17,172 159 36 B WL7MA 13,464 132 34 B 40 KL7FAP 4,884 74 22 B 20 NL7DU 924 22 14 B 20	Indonesia YB0ASI (AA4U,op) 8,850 118 25 C	Paraguay ZP5XE 39,312 273 48 B 20 ZP5MAL 159,096 947 56 C 15	North America V31DX (K16IM,N6VYR,WA9L,ops) 9,032,634 8578 351 C HH2PK (+HH2s AW,MED) 8,520,966 8686 327 C 8P9Z (K3KG,K4FJ,ops) 8,431,452 8838 318 C ZF2PP (AA9D,K9PW,ops) 8,265,600 8400 328 C VP2E (K0ZCZ,WA0PUJ,ops) 7,600,038 7771 326 48 C VP9DX (VP9ID,N2MZH,ops) 5,866,980 6412 305 C XE2EBE (AA8DP,NF6H,ops) 5,006,067 5231 319 C PJ7K7CI (+W7MAP) 2,813,664 4187 224 B KP4VA (KP4s TK,WK,ops) 1,231,968 2504 164 20 B	Greenland OX32M 90,282 367 82 C	New Zealand ZL2TT 175,500 650 90 B ZL2AMI 313,170 715 146 C	Single Operator, Assisted Asia JF1SEK 61,815 317 65 C JH1UT 13,833 159 29 B JH2ABL 9,486 102 31 B JR4GPA 7,194 109 22 B JA2AXB 1,722 41 14 B JK2VOC 1,485 45 11 B JA7SUR 1,050 35 10 B JF3LGC 672 28 8 B	South America L37N (LU2NI,op) 2,222,514 3414 217 B LUS5EWO 293,454 822 119 B LU4DFH 121,524 494 82 B LU5FYV 976,500 2100 155 C LU4D 53,250 355 50 B 40 LU1AEE 3,381 49 23 B 40 LU5FC1 212,754 1202 59 B 20 LU6AMD 100,320 608 55 B 20 L3HL (LU3HL,op) 53,820 345 52 C 20 LU5EVK 5,712 68 28 B 15 LW2EOC 60,897 383 53 B 20 LU6ETB 554,718 3134 59 C 10 LU3HIP 364,680 2026 60 B 10 LU8SHO 341,478 1866 61 36 B 10 LW1DIP 194,040 1176 55 B 10 LW2DBM 78,864 496 53 B 10 LU3QJZ 40,920 310 44 B 10 LU1FNH 32,736 248 44 A 10	South America PY2EX 795,126 1489 178 C	Europe I8QLS 676,851 1351 167 C OH1EH 315,090 778 135 C EA3AFR 129,948 476 91 B IN3ASW 120,249 431 93 C EA3BT (EA3AOK,ops) 88,314 359 82 C LZ1KOZ (LZ5DB,ops) 27,135 201 45 C	South America PY2EX 795,126 1489 178 C	Multiplexer, Single Transmitter Africa EA8ZS (+EA8BR,EA1AK) 4,547,457 5209 291 C Asia JA8YB (JO1DFG,JI8UCI,JR8s GOU, WJS,ops) 385,926 982 131 C JY3BYB (JG3LZG,JI3ERV,JR7OMD,ops) 342,519 899 127 C JA7YAA (JE1AMC,JF1s CKY,SXL, 7M1JAS,JG7FS,JR8SPG,ops) 280,980 892 105 C JA1YKX (JG1EGG,JI1VNM,JI4OWG,ops) 138,804 538 86 B HS1AH (+ops) 1,260 30 14 C	Colombia HK4DWY 202,404 668 101 B HK3JH 358,020 1989 80 B 20 HK4QIM 428,910 2465 58 B 15	Argentina L37N (LU2NI,op) 2,222,514 3414 217 B LUS5EWO 293,454 822 119 B LU4DFH 121,524 494 82 B LU5FYV 976,500 2100 155 C LU4D 53,250 355 50 B 40 LU1AEE 3,381 49 23 B 40 LU5FC1 212,754 1202 59 B 20 LU6AMD 100,320 608 55 B 20 L3HL (LU3HL,op) 53,820 345 52 C 20 LU5EVK 5,712 68 28 B 15 LW2EOC 60,897 383 53 B 20 LU6ETB 554,718 3134 59 C 10 LU3HIP 364,680 2026 60 B 10 LU8SHO 341,478 1866 61 36 B 10 LW1DIP 194,040 1176 55 B 10 LW2DBM 78,864 496 53 B 10 LU3QJZ 40,920 310 44 B 10 LU1FNH 32,736 248 44 A 10	Peru OA4EI 2,085,588 2826 246 C	South America P08B (K2s NG,TW,ops) 9,223,209 9150 336 C PT7CB (+PT7s BZ,NK,WA,WB) 8,655,804 8121 308 C LV1V (LV1s VK,VV,LU2s VD,VDF,LU4VZ, LUS9Y,ops) 3,607,263 4829 249 C LR1C (LU1ARL,LU2s ANN,ATR, LU7DW,ops) 2,855,955 4051 235 C LU2DW (+LU6BEG,LU8EWD) 2,166,108 3374 214 C ZP0R (ZP5s AZL,JMT,ZP6XR,ops) 2,027,091 3233 209 C LU1FZR (+LU2FLN,LU6FWN,AZ8FAG) 1,901,259 3153 201 C LU7HLF (+LU3HNE,LU4HIU,LUSHUE, LU7HVH,LU8HOE,LU8HRD) 483,054 1126 143 C LU4DRC (LW2DZY,LW6EFP,LW7EIC, LW9EFE,ops) 291,800 720 135 C YV3AJ (YV3s BC,BKC,BXH,CFE,ops) 277,245 1515 61 B	Uruguay CX7BY 187,355 1115 59 C 20	Ecuador HC1/KE4EW 127,225 165 55 B HC2HM 302,493 1709 59 C 20	Europe TM1C (F5SNJ,F6s ARC,CTT,ops) 2,851,446 3614 263 C CT8T (CT1s DVV,ESV,ops) 2,569,080 3160 271 C TMSG (F5s DE,FH,FLN,GTR,HRY, MZN,F6s EXV,HPP,ops) 2,336,040 3090 252 C IR4T (I4s JMY,UFY,YSS,IK4IEE,ops) 2,086,695 2665 261 C IQ4A (I4s TJE,VEQ,ops) 1,786,530 2635 226 C HG1S (HA1s AH,AR,DAC,DAE,TJ, HGI,DAI,ops) 831,810 1631 170 C IO5A (I5s NSR,OYY,IK5s JAN,NAW, PWC,ops) 826,155 1669 165 C	Chile CE6EZ 2,286,981 3579 213 C CE8SFG 198,600 662 100 C CE3BFZ 63,756 276 77 C CE8SAX 85,542 538 53 C 40 3G31X (CE1IDM,op) 251,604 1446 58 C 20	Guatemala TG9GI 489,600 1275 128 A TG0AA (KA9FOX,op) 688,884 3892 59 C 15	British Virgin Islands VP2V/K1DW 926,016 1696 182 B VP2VF 437,589 2559 57 C 10	Antigua & Barbuda V26AS (YT1AD,op) 5,723,136 5888 324 C	St Kitts & Nevis V44NK 1,363,896 1994 228 C	Anguilla VP2ENR (YU1NR,op) 3,266,828 3974 274 B	Montserrat VP2MFP (KK9A,op) 295,944 1672 59 C 80	Turks & Caicos Islands VP5X (WE3C,op) 7,716,240 7655 336 C	Mexico XE1XOE 659,895 1073 205 B XE2AC 44,544 232 64 B XE2Z 1,782,648 2358 252 28 C 6D2X 653,562 1638 133 C	Philippines WD5AAH/DU5 144 12 4 B DU1SSR 1,938 38 17 B 6 C SM0CNS/DU7 90 6 5 B 40 DU1SAN 2,535 65 13 C 20	Hawaii KH6/WB6FZH 5,325 71 25 A WH6DY 668,745 1351 165 B WR6R/KH6 4,009,824 4914 272 C KH6BZF 1,066,707 1769 201 C KH6FKG 198,072 1179 56 C 20 AH6IM 171,234 1057 54 B 15 KH6GMP 147,345 893 55 B 15 NH6P 44,892 348 43 B 15 WH6CQH 146,328 938 52 C 10	Netherlands Antilles PJ9T (AB4JL,op) 2,163,840 2944 245 C PJ2/AA1L1 36,708 266 46 C PJ9JT (WB1BH,op) 410,994 2322 59 C 15	Brazil PW2N (PY2NY,op) 788,004 1652 159 B PY2OZF 106,425 473 75 B	Marshall Islands V73C 177,096 1256 47 C 10

New Products

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Designed as a long-term, easy-to-apply solution to moisture and corrosion problems in cable connectors, Metal and

Cable Corporation introduces its new "MCS" sealant. MCS creates a barrier to moisture without reacting with the contact material. Simply spray both sides of the connection with MCS and you're done. Wipe with mineral spirits to remove.

The manufacturer claims that one can of MCS can seal as many connectors as four rolls of "roll-type" contact sealer, and that because it's sprayed on, MCS can seal contacts and connectors in hard-to-reach spots.

For product information, contact Metal & Cable Corporation at 9241 Ravenna Rd, Unit C-10, Twinsburg, OH 44087, tel 216-425-8455, fax 216-425-3504.