

Results: 1977 ARRL International DX Competition

Happiness is a good run.

By Jim White,* K1ZX/WA1NNC and Dan Street,** WA1QNF

Journey back into the past. The year is 1965 and then as now, February and March meant only one thing — the International DX Competition. Things look a lot different now than they did then. Or do they?

The quota system was still in effect back in '65 — on cw at least. The quotas limited you to working six stations in a given country. Just six stations. Once you worked six DLs or six JAs you could work no more. That was pretty frustrating for the DX station in a country with a large ham population. Many times calling a big signal on the band resulted in "sri, I've filled my quota." Phone had no quotas. (Back in '65 there weren't enough DX stations active to warrant them.)

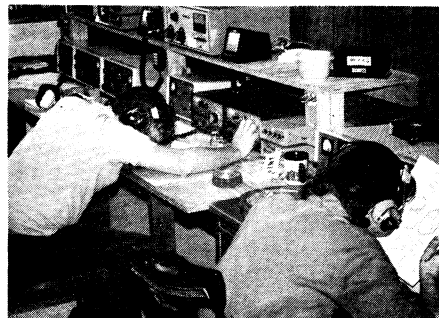
Quotas would seem odd today. When you think about the number of JA QSOs W7RM made, or the number of DLs worked by W2PV, it would seem even more out of place. The same goes for everybody. The majority of contacts are with a small number of countries, say Europeans. Although you can run up a multiplier of over a hundred on a band, many countries have one or maybe two stations representing them. For the VEs things were a little easier . . . they had a quota of eight.

The scoring of the DX Competition was much different back then. But, looking at some of the calls from those "ancient" years isn't as odd as it may seem. Familiar call signs abound and the charm of the DX Competition is proven. The perennials show up. In '65 HI8XAL made 2700-plus QSOs on cw and almost 1800 on phone. Today K3ZO made the top ten on cw and placed 11th on phone. Going back we find W1BIH active in Connecticut. Today PJ9JT is an expected QSO on both modes, all bands. John makes his religious trip to Curacao for two weeks every year (in which time the first cw weekend and

the second phone weekend always manage to fall). Hawaii was stateside back then but today KH6s work Ws and VEs. Either way KH6IJ was and is an active participant. Nowadays he is a regular in the top ten on both modes. Back again is VP2VL, his proficiency making VP2V an easy multiplier on cw.

Could it be the DX Competition is addictive? Ask the above ops. Year after year they're back. The many facets of the DX Competition make it a continuing attraction. To the newcomer working gobs of DX is great (to the big gun it isn't a charm). That does not mean the lure ceases. Tricks of the trade are numerous, numerous enough that there's something for everybody. The gun can't forget any of the tricks he's learned . . . working JAs long path . . . knowing where to look for Russians transmitting on 75 . . . the ins and outs are so numerous you can't know *too* much.

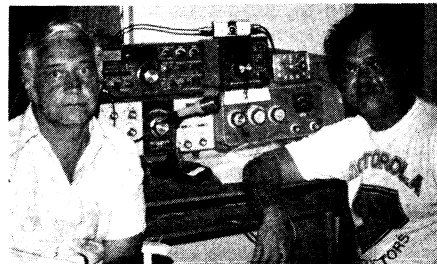
"Great, just what I want to hear about, I'm no big gun — all I do is casually get on for a few hours in the contest. That's all I can stand with those big guns taking up the band, they make it impossible for me to work any DX." Are they taking up the band and making it impossible for you to work DX or are they just one step ahead of you and know something about DXing you don't? Are you trying to get on and work DX at inopportune times? The big guns started out where you're sitting. DX contesting is something mastered with experience, and experience only. Are you getting on in the peak of the band opening? If so, you're probably working the DX. . . . Are you being practical in entering the pileups where the DX station only has a marginal opening into your area? Those from your area who are working him are only making it through because they know you don't beam straight in on 'em — you work 'em skew path at this time of day. If you want to make a big score from a modest setup you have to be



80 and 160 meters at WA5LES. . . . Tom's suggested caption: "0710." Somehow, I get the feeling I've been there.



Six of the seven smiling Seven-RM superstation stalwarts, successfully seizing slot numero uno in multi-multi phone. Back row people: WA7OTT, K7SS (K7JCA), Mr. W7RM, W5QQQ. In front: VE7ZZ and K7JA (K7VPF). Not pictured is K7CW (K7HTZ).



High Montserrat one-weekender went to VP2MNK. Expeditioners WA0ONK and W0NAR made nearly 3900 QSOs with the aid of VP2MGB.

*Communications Assistant, ARRL
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**One-Weekend DXpeditions
(All Are Certificate Winners)**

CW

Continent Made by

Africa

3B8DT K4FOK

Europe

C31IU F0AXP

DL1YA/OE7
W5ONL/HB
OH0XZ
OH3XT/OH0
OH3PE/OH0

N. America

WA8TOB/C6A
WB6UAG/FM0
PJ8CO

K1CO, WB2DRW, WB20EU,

WB2WOI

W6QL/VP2A W6QL, W6KG

VP2KN K9OTB

VP2LBH K2IGW

VP2MAQ W6KG, W6QL

W1HUY/VP9

XE2MX

K6NA

S. America

PJ9JT W1BIH
PY1ZCF K5MA

Phone

Europe

W5ONL/HB W5ONL

N. America

W4SS/C6A W400, W4PJG, W4RA,
W4SS, WB4PQB

PJ8CO K1CO, W1GYZ, WA2DYK,
WB2DRW, WB2GIO, WB20EU,

WB2WOI

W6QL/VP2A W6QL, W6KG

VP2LDQ

WA9FXJ

VP2LCG

K0KJS

VP2MAQ

W6KG, W6QL

VP2MNK

VP2MGB, W0NAR, WA0ONK

VP2SZ

WB8JEY

W9ABA/ZF1

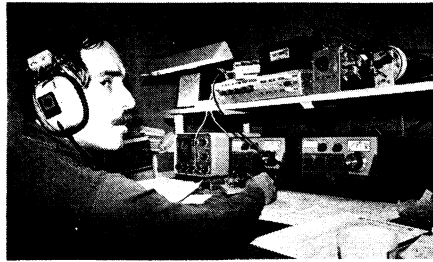
W9ABA

F00RS

K6NA

S. America

PJ9JT W1BIH



The Man himself — Sig N3RS/W3WJD at 40 cw on your left, and on your right, N3RD, Dave operating 20. I bet they knew they won.



W1 representative for the CAC, and low-power King WA1SSH. Ken now holds eight "firsts" — four code and four phone. Just recently he purchased a linear and goes high power to join the ranks of Connecticut "guns."



I bet it's 40-meter phone. W5ONL/HB, a one-weekend DXpedition active on both modes this year. Originally slated for a two-week stay in Switzerland, Dick was lucky enough to have his stay extended by two weeks allowing him to catch the cw weekend.

whether or not a visit from Mr. Murphy is scheduled.

W/VE Single-Op Highlights

The W/VE entrants of 1976 only managed one score greater than two million points. This year W3LPL (last year's Two-Million-Point Man) did himself one better and upped his cw score by 160 kilopoints. Frank's 2.4 million score is dangerously close to the all-time cw record of K1ZND, set in '72. Only one cw score greater than 2 megapoints last year . . . this year six of 'em. A record in itself with W3LPL, W2GXD, W1ZM, WA1STN, W6PAA, and W7RM sharing the honor. The remaining four top-ten slots were outstanding too, in that K3ZO's number-ten score would have landed him in second place last year. Last year's second highest score (from 7RM) wouldn't have made the big box! Last year's cw top tenners back in the box are W5WZQ — now as W5UN, W7RM again operated by K7VPF/K7JA, W3LPL, W2GXD and K4 (pause) GSU.

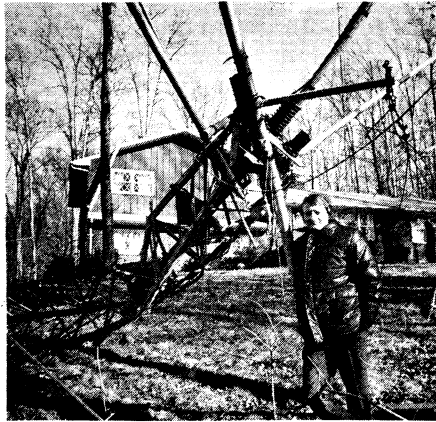
Last year's high man for Frankford RC, W2HMH, comes back with that title and along with it the first-place phone seat in W/VE. Charlie's winning score is up by 800k over the W6HX winning score in '76. WA8ZDT (oping W4QCW), WA1ABW, K4VX, and WA7WXY all pulled in at over 2 million. K2LE/1 at

1.4 meg rounds out the phone top ten. And, like cw, the phone scores are way up from last year . . . even more so when you figure last year's number ten score W1YK, operated by WA1JLD, was 835k and this year WA1JLD (operating WA1STN) came in ninth. It took doubling his score to 1.7 million to keep him in the box. Yes, things were a bit more competitive on phone this year. Like cw, a record number of greater-than-2-meg logs were received, five of 'em — and none were made last year. Conditions were just OK, nothing special. Thinking about the scores to be made in the next few years boggles the mind. The winning phone multi-single, W5TMN, lead the test in 10-meter multipliers with 48. A few years from now 48 will be peanuts. Anyone with a long wire and a transceiver will be able to catch 50. Wow, conditions weren't great, conditions aren't at their prime, but five logs on phone and six logs on cw are better than 2 million points. Eleven single ops over two million, the average score in the top ten this year was 1.99 million. The average-score-record standing from the '71 contest is also 1.99 million. Conditions were peaking about then and now we're still a couple of years away from the new peak. Any guesses as to what the average score will be in 1979?

Master of low power WA1SSH put in

practical! Studying propagation charts like those in the "How's DX?" column each month will tell you a lot — when optimum conditions will favor communications to any part of the world. If you're trying to work 'em during a lull point in the day (and your station isn't more than a dipole and a barefoot transceiver), you're just asking for grief. Working that station is probably no sweat at the peak time of the day. Save yourself the aggravation by knowing when conditions are best. Once you learn about propagation you know where to improve your station . . . thanks to the knowledge you've gained in how it's done. Knowledge is cumulative, and with patience (and the desire you probably have now you aren't pounding your head into the wall) the only thing you have to worry about is

his final low-power effort this year. He went out in style. On code Ken had over 550k and on phone 275k. For the fourth year running Ken is low-power champ both modes. He'll be back next year in C class . . . "I broke down and bought an amplifier, next year I'll have



An awful sight — the contester's nightmare. K4VX was lucky, in the sense that his tower made it through the DX competition; 49 hours post-test it was another story. Lew's expression tells the story.



EL2 Tango, Bud is another one of those guys who put a smile on your face. Working Bud on four bands this year was a sure thing. And in a year or two, five EL2T QSOs will be more sweatless.

to compete with the big boys." VE3AIA decided to make a big noise from up north in the Maritimes, putting VE1BKB on both phone and cw, the latter to the tune of a million points. Other heated cw battles included the race for number-one single op in Connecticut. WA1STN was edged out by W1ZM (WA2CLQ/K1ZM as op), an extra 100 QSOs for 'STN, but 15 more multipliers for 'ZM . . . net W1ZM first in CT, number three in W/VE and WA1STN second in CT and fourth W/VE. The second weekend conditions weren't exactly favorable for the West Coasters, W7RM only worked eight (yes, eight) JAs. Without the JAs for the West, scores can't make it up there (ever wonder what they did in the days of the quotas?). Europe is far away from W6 and a multiplier difference of about 25 or 30 means you run JAs or don't score. A classic example of this is fifth-place finisher on phone WA7WXY. Rick (now K7GM) cranked out more Qs than anyone else. However, his multiplier of 286 was the lowest in the top ten . . . a whopping 2359 QSOs. True, but with a multiplier 102 down from first-place finisher W2HMH, the net is fifth place. The sole finisher in the top ten on both modes was W2GXD, giving Frankford RC 3.9 million points toward their aggregate score.

High-band competition on cw was

good this year. Interest in this category seems to be increasing. Not content with his first-place finish in the low-band cw category last year, K1NOL came back this year entering and winning the high-band competition. Jim's low-band record score of last year still stands so he now holds both the low- and high-band cw records. High-band phone number one this year is N4MM and low-band phone winner is K4YFQ. Yet another four, N4PN, takes a first-place slot, this one low-band cw.

Multi-Singles

Multi-single provides an excellent opportunity for clubs to teach their members the ins and outs of contesting. Sitting a newcomer down alongside a seasoned operator can teach the neophyte more in one hour than endless hours of club talks and slide shows can hope to. Entries from W5TMN and WA1NRF proved to be a good race on cw. There were 100 QSOs more for 'NRF, but two multipliers more for 'TMN. WA1NRF took the title. NCDXCC took advantage of this aspect — they had almost as many multiops as single ops on in the contest! W5TMN did make it in as phone multi-single winner, just missing out on three million points by 50 contacts, scoring 225k better than phone single-single winner W2HMH. Strong club ties show up in

DX Continental Champions

CW		Phone		
Single Op	Multiop	Single Op	Single Op	Multiop
ZS6WW		Africa	6W8DY	
JA2JW	JA7YAA	Asia	JA7GAX	JA3YKC
CT4AT	YU3ZV	Europe	CT4AT	YU3DBC
KP4EAJ	KP4EAS	N. America	KP4EAS	PJ8CO
KH6IJ		Oceania	KH6IJ	KH6GQW
PJ2VD	LU8DQ	S. America	YV4TI	PY1BAR

Italicized callsigns indicate "repeaters" from 1976

Low-Power Champs

CW		Phone	
WA1SSH	722,766	WA1SSH	506,100
W0PRY	314,415	W0PRY	321,408
WA0UCU	310,116	WA0UCU	214,728
W2BA	302,742	WB2SJK	196,020
WA2HAI	285,600	WB7BNP	194,334
WB4KSS	255,420	WA1TFF	192,390
WB2SJK	250,974	W9YH	186,984
W3ARK	250,848	WB2LOF	136,620
K3KO	242,880	W1HAF	101,682
K1NH	180,999	WB4FOT	100,080

Top Forty

Single-Operator CW				Single-Operator Phone			
W/VE		DX		W/VE		DX	
W3LPL	2,424,464	KP4EAJ	5,272,383	W2HMH	2,621,328	KP4EAS	7,782,324
W2GXD	2,061,900	PJ2VD	4,708,935	W4QCW	2,190,459	VE2AQS/TG9	4,327,155
W1ZM	2,052,618	KP4EKI	4,648,644	WA1ABW	2,093,904	KH6IJ	4,244,226
WA1STN	2,041,572	XE2MX	4,346,712	K4VX	2,071,224	YV4TI	4,163,922
W6PAA	2,025,147	KH6IJ	3,481,890	WA7WXY	2,024,022	XE1LLS	3,928,344
W7RM	2,015,145	KH6HKM	2,803,356	K5LWL	1,908,498	CT4AT	3,870,792
N6AA	1,993,680	CT4AT	2,621,772	W3BGN	1,857,240	KP4DSD	3,544,944
K4GSU	1,962,360	ZS6WW	2,246,244	W2GXD	1,824,642	6W8DY	2,919,996
W5UN	1,795,692	PJ9JT	2,194,686	WA1STN	1,691,352	PJ2FR	2,595,957
K3ZO	1,762,605	EA2IA	2,180,892	K2LE/1	1,461,042	HC1BU	2,442,192

Division Leaders

Phone

Single Op

All	Low	High		M-S	M-M
W2HMH	WA3SWF	K3ZOL	Atlantic	W3BWZ	W3AU
W9LT	WB9MOG	WB9HAD	Central	W9RX	K9DX
WA0ONL	—	W0QUE	Dakota	WA0FQF	—
K5KLA	WB5HVY	K5FVA	Delta	W5WMU	—
WA8YWX	W8TWA	WB8JBM	Great Lakes	K8IDE	W8NGO
W2GXD	W2HHC	W2MB	Hudson	WB2RKK	W2PV
W0FHE	WB0OED	W0PRY	Midwest	K0AZV	—
WA1ABW	W1FC	K1CSJ	New England	WA1ABV	W1RR
WA7WXY	W7YTN	W7ISX	Northwestern	K3MNT/7	W7RM
WB6GFJ	W6NLZ	WB6OOL	Pacific	N6MG	W6PAA
W4QCW	WA4YBV	N4MM	Roanoke	WA4APD	W4BVV
K5EVK	—	WB0QHV	Rocky Mt.	WB0LLR	—
N4PN	K4YFC	WA4CQD	Southeastern	WA4LZR	—
K6AC	WB6NRK/7	WA7YRP	Southwestern	W6YRA	W6ONV
K5LWL	K5JZY	K5BZU	West Gulf	W5TMN	W5BJA
VE1BKB	VE3BBN	VE3HGN	Canadian	VE8ML	—

Total Logs Received 1976 1977
(Including Check Logs) 2405 3034

'76 W/VE: 1368 DX: 872 Check Logs: 165
'77 W/VE: 1631 DX: 1123 Check Logs: 280

Returns Up 26 Percent

1978 ARRL DX Competition

Phone

February 4-5 and March 4-5.

CW

February 18-19 and March 18-19

CAC representative (or mail your letter to him via the Hq. liaison) to let him know how you feel. If you don't write, don't complain about the rules.

Multi-Multi

Yes, these are the big boys. To the single op they're seemingly merciless on the bands. Their constant presence on the bands make them so conspicuous. No matter what band the single op switches to the multi-multi is there; "sentinels of the bands." It didn't take long to figure out who N3RS was . . . Sig (alias W3WJD) put together a winning multi-multi effort on code this year. Nearly six million points worth of effort, the 80-meter signal of Willie John David fame came through producing 664 QSOs. On 15 meters, W4BVV (K0DDA op) managed 100 more QSOs than anyone else. We add that Lloyd is sightless and along with John, K3NPV (also blind), WA3AMU, K3OAE, W3ZZ, K4GKD and K1JX, W4BVV managed the second-highest multiplier in the 'test — 432 countries — including 80-meter contest high of 73 by K3NPV. In third is W2PV, but not by much as WA5LES multi-multi came within 200k of 'PV. That's right, a 4.5 million point multi-multi from South Texas — hats off to Tom for the well-organized effort. Geography didn't discourage the South Texas crew, they just went out to work a contest and did so in style. K1VBL's New Hampshire multi-multi operation signing W1GQO on cw lost most of their aluminum in the storm on the Thursday and Friday before weekend two — only one weekend for them, but almost two million points, nevertheless. . . . Mr. Murphy struck!

On to phone. Now grit your teeth, the beacon of W7RM skunked everyone with an eight-million-point victory. Number two finisher W2PV managed 50 more multipliers than 'RM. Sounds pretty impressive, huh? Impressive, but not as impressive as the 1350-QSO lead by 'RM — over a million points above W2PV . . . where did it come from?

Division Leaders

CW

Single Op

All	Low	High		M-S	M-M
W3LPL	WA3SWF	WA3SZX	Atlantic	W3NX	N3RS
K9DX	K9DVK	WB9LHI	Central	WA9IVL	W9CL
W0HP	WB0ANT	W0QUE	Dakota	—	—
W5WMU	—	N4ZZ	Delta	—	—
K4GSU	W8IQ	K8ETO	Great Lakes	K8IA	W8ROF
W2GXD	W2HHC	WB2PYM	Hudson	WA2UOO	W2PV
W0ZLN	WB0NOU	W0PRY	Midwest	WB0RRA	—
W1ZM	W1NJL	K1NOL	New England	WA1NRF	W1RR
W7RM	W7YTN	WA7OBL	Northwestern	N7XX	—
W6PAA	WA6SFT	W6HJP	Pacific	WA6DQM	K6ZM
K4VX	W4HBK	N4MM	Roanoke	W4WIN	W4BVV
W7HS	WA5YTX	—	Rocky Mt.	—	—
N4RR	W4WHK	WA4LZR	Southeastern	WA4LZR	—
N6AA	W6DYD	WA6WZO	Southwestern	K6SE	W6BA
W5UN	W5KLB	W0PCO/5	West Gulf	W5TMN	WA5LES
VE1BKB	VE6AYX	VE6KW	Canadian	VE4OY	—

the phone multi-singles with Frankford, PVRC, NCDXCC and MM all putting in multiple entries. Use of spotting nets for conveying hot multiplier news is the main reason. Some ops normally running single-single decided to use the net for score aid — foregoing single-op status and entering the ranks of the multi-singles. The scores of the phone multi-singles fall into the 1.5- to 2.5-million-point range with the exception of the TMN winning score of 2.9 million — a clear victory.

There is only one set of rules for multi-single operation, but two distinct methods of operating a multi-single exist. Interpretation of the rules for multi-single vary, some seeing the "single" as meaning one transmitter while others say one signal. The classical view of multi-single is that the category is an extension of the single-op category, i.e., the only way it is different than a single op is there's more than one operator of the station — to assist in keeping the station on the air for the full 96 hours.

The second op(s) can man a second receiver, looking for band openings and multipliers. Some multi-singles have taken this to an extreme and have set second stations, manning them simultaneously. The number of contacts possible from a multi-station multi-single is far greater than a single-op station with more than one operator can match. Contest rules are not meant to discourage participation in the contest, and because of this entrants using the multi-station format were not reclassified into multi-multi. This has been done with the proviso that the Contest Advisory Committee and the Headquarters Awards Committee thoroughly review the reason for the category's existence, and possibly redefine multi-single contest participation. The Contest Advisory Committee is responsible for conveying the participants' interests in contesting to Headquarters, where the rules are implemented. If you feel strongly one way or the other about an issue, like "what is multi-single?" contact your

Try 650 more QSOs on 40, 600 more on 15, and 100 more on 75 — that adds up to JA, right? Twenty meters was dead even in contacts; 'RM worked Europeans like crazy, and took 'PV in multipliers: 145 to 134. Competition for number-two slot was possible — can anyone compete with W7RM? We'll tune in next year and see (perhaps). Oh yes, back to competition for number-two slot. The scores made by second and fourth finishers W2PV and W3AU are way up over last year's, 'PV by 52 percent and 'AU by 44 percent. Multi-multi scores are good indicators of propagation and there is no denying these kind of increases spell upswing on the propagation charts. K1VBL's multi-multi signed W1RR, and in their first year out came in third, right at the heels of W2PV.

DX Horizon

At one time East Coasters worked JAs on 10. This is a few years back the other side of the lull in the cycle, but they did indeed work 'em. The West Coast has been having trouble making it to JA, but this year JA has started up, meager signs, perhaps, but further proof that the conditions are getting better. In the last hour of the contest (on phone) JA1PUK had a run of 12 QSOs into the states. JRICFG and JA1CG also lucked out and made a few W QSOs on 10. With the trend as it is for West Coast scores, 20 meters could well become the lowest contact-producing band — boggles the mind, eh? Way over on the other side of Asia 9D5A surprised many with a usually unheard country — Iran. If you listened hard you lucked out and caught him. On phone things were pretty tough for Bill (K6KM/W6HQJ). Running 60 watts makes the distance between Iran and W/VE seem further. "Believe it or not, my 69 phone contacts represent an all-out effort in the contest. Few but the 'big guns' heard me call them, and not one CQ got a response . . . except from Europe and Africa." Those of us who heard you say thanks, Bill, especially the three of us lucky enough to work you on 75. On cw 9D5A was multi-single, with K5MM assisting. Over 600 contacts, not bad for a TH3 and 60 watts.

The whopping 2.9-million-point score by 6W8DY (number Six, letter W, number Eight . . .) brings an African score back into the top-ten box. Aiding in keeping Africa on the ham radio map are the kilos of QSOs made by EL2T, ZS6DN and 9G1DN. Fifth worldwide cw scorer ZS6WW entered the top ten, too — making two Africans successful at thwarting the NA/SA/Oceania guns.

Flash! Switched to 40 meters, worked CT4AT. Good gawd, K7ZZ's last DX test from Portugal proved a winning one with his phone score of 3.8

Affiliated-Club Scores

State/Prov.	Call Area	Club	Score	Entries	CW Winner	Phone Winner
VA	4	Potomac Valley RC	65,437,392	98	W3LPL	K4VX
PA	3	Frankford RC	50,776,590	80	W2GXD	W2HMH
CT	1	Murphy's Marauders	41,064,741	38	W1ZM	WA1ABW
CA	6	N.C.A. DX & Contest Coop.	35,542,482	99	W6PAA	WB6GFJ
WA	7	Western WA DX Club	22,452,069	54	W7RM	K7DZ
IL	9	N.IL DX Assn.	19,187,088	40	K9DX	W9BW
TX	5	TX Assn. of Contest Oprs.	15,604,563	14	W0PCO/5	K5VTA
MA	1	NE Contest Club	14,045,268	39	K1GQ	K1CSJ
NJ	2	Wireless Inst. of the NE	13,339,967	41	W2REH	WB2RJJ
CA	6	S.C.A. Contest Club	10,799,631	21	K6AC	K6AC
OH	8	Mad River RC	9,781,374	22	K8RMK	WA9BWW
TX	5	TX DX Society	6,001,908	10	W5UN	K5LWL
CA	6	San Diego DX Club	4,865,796	16	W6ABT	WA00OL/6
CA	6	S. CA DX Club	4,504,236	11	N6AA	W6BA
NY	2	Order of Boiled Owls of NY	4,092,105	13	K2LE/1	K2LE/1
MI	8	Mich. DX Assn.	3,555,759	6	K8ETO	—
AL	4	N.AL DX Club	3,432,672	7	—	K4TIG
LA	5	Delta DX Assn.	3,069,312	5	—	K5FVA
AZ	7	Central AZ DX A.	3,038,037	15	WA7YRP	WA7YRP
VA	4	Central VA Contest Club	2,940,228	5	WA7YRP	WA7YRP
IN	9	INDY DXers	2,886,696	4	—	—
MN	0	Twin City DX A.	2,797,194	12	W0HP	WB0ANT
CO	0	Colorado Contest Conspiracy	2,316,690	3	—	—
GA	4	SE DX Club	2,146,491	9	N4PN	N4PN
TN	4	Mid-South ARA	2,012,376	11	WA4FDR	WA4EAV
NJ	2	S. Jersey RA	1,810,940	13	K2JOC	W2FGY
IA	0	E. IA DX Assn.	1,466,712	17	K0FLY	W0FHE
WI	9	Four Lakes ARC	1,282,587	6	K9KGA	—
NY	2	Overlook Mtn. ARC	1,236,198	14	WB2BXL	K2SD
IL	9	Kankakee Area RS	1,090,599	4	—	—
NY	2	Buffalo Area DX Club	1,058,310	4	—	—
OH	8	OH Valley ARA	1,001,505	8	W8RSW	—
FL	4	N.F.L. DX Assn.	964,554	8	—	W4ZTW
MAN	0	Winnipeg DX Club	868,143	10	—	VE4RP
MO	0	MO Valley DX & Contest Club	785,583	11	W0TDR	W0HBH
ONT		Toronto DX Club	752,037	4	—	VE3HGN
IN	9	INDY DXers	720,924	3	—	—
TX	5	Alamo DX Amigos	714,900	11	W5BE	W5BE
IL	9	Waukegan VHF Society & ARC	703,671	6	—	W9LUH
VA	4	VA Century Club	674,037	10	—	WB4OXD
OH	8	Columbus ARA	621,663	7	W8ZCQ	W8ZCQ
NJ	2	Old Barney ARC	562,959	6	W2EQK	W2EQK
MD	3	ARINC ARC	556,965	7	N3OS	W3PWO
NS		Halifax ARC	539,852	4	VE1MX	—
NY	2	Poughkeepsie ARC	482,463	5	—	WA2LJM
KY	4	River Rats ARC	352,704	3	—	—
NC	4	Charlotte ARC	327,036	4	—	K4GFH
ALTA		Calgary DX Club	253,284	8	VE6AMR	VE6AMR
NJ	2	Gloucester Co. ARC	185,847	4	—	—
NY	2	Lake Success RC	168,972	3	—	—
KY	4	Bluegrass ARC	166,521	3	—	—
NC	4	Brightleaf ARC	108,990	5	—	WA4NHP
CT	1	Meriden ARC	92,892	6	W1KKF	—
OH	8	Parma RC	34,134	4	—	—
IL	9	Chicago Radio Tfc.A	26,292	5	W9REC	—

million setting an EU record. Though he claimed not to know the code, Don made 3800 cw contacts, nailing down high Europe single-op on both modes . . . the word is that Don has gone down to the Caribbean. But we'll wait and see what comes of it. EA2IA (?) broke two million on cw again, and YU3ZV put together a 2.2 million point multi-single . . . two Europeans you always work. Multi-singles from Russia were plentiful again. Active on both

modes, the UK2 Bravo Bravo Bravo and UK2GKW crews each broke 2000 phone QSOs. Lithuania and Latvia were duck soup on four bands.

If you didn't work KP4EAS you were in a very small minority. Mike set an all-time world record DX score this year; his 7/8-pound log was filled with 8132 QSOs, and 309 multipliers . . . 43 on 160, 55 on 75, 56 on 40, 20 on 15 and 53 on 10. Pretty good show when you consider it's only possible to work a

maximum of 57 multipliers on each band. Speaking of Puerto Rico, Chet, KP4EAJ came back as number-one code man. His score was up by 36 percent . . . a big increase when you made as many points as Chet made last year. . . . Also returning to the top ten, in sequential order, are PJ2VD and KP4EKI, repeating number two and three this year. Other returners to the top-ten box from '76 are KH6IJ (on both modes); KH6HKM, cw (no, it's not KH6SKM or KS6SKM as found in a log); KP4EAS, phone and XE1LLS, phone. Number-ten single op on phone, HC1BU, deserves commendation with his high-band effort. EA2IA's score also is encouraging as there are two Europeans in the top-ten cw, another indicator of improving conditions. There haven't been any Europeans in the top ten since '74.

K6NA/W6MAR had a little fun this year, operating XE2MX to a fourth-place finish on cw. Glenn went to French Polynesia to operate FOØRS, handing out 2200 plus QSOs, an interesting way to spend a March weekend. Nice weather was in the offing for the K1CO/PJ8CO crew again this year. Operating multi-multi, they made 7810 QSOs in a weekend; on phone that is. On the cw weekend they just missed 4000 Qs — not bad for a few vacation

contacts. (Not to mention the contacts that bachelors tend to make on a Caribbean vacation.) On the waves and the airwaves, the Colvins continue their jaunt around the world. Island-hopping to Antigua in February, and Montserrat in March, they totaled just shy of 11,000 QSOs. Close to 20 one-weekend DXpeditions were made to the Caribbean this year — fun was had by many and we're sure many a time ham radio was forgotten in favor of time in the sun.

Recognizing every outstanding effort is a tough job, that's why we are lucky to be able to print all the scores. Statistics are always easy to extract. . . . You name it, the number of stations operating portable, the number of calls ending in V, what you seek is here, extract as you please!

Affiliated-Club Competition

Back on top again this year, the Potomac Valley Radio Club took first first, with Frankford Radio Club second. The two traded positions from last year. Excellent efforts by PVRC members netted 65 million points to the club. Returning to third place was the now-split Murphy's Marauders. The majority of their membership joined with the Northeast Contest Club and formed the Yankee Clipper Contest

Club. Next year YCCC will be a force to watch for! Northern California Contest Club members merged with the Northern CA DX Club. The marriage resulted in the Northern California DX and Contest Cooperative. NCDXCC took number-four slot this year. (Last year NCCC took fourth, netting an ersatz return to fourth position.) In seventh with only 14 entries (most of 'em multiops) was TACO, the Texas Association of Contest Operators. It was another marriage of clubs, this one a bit more spicy, the Richardson Wireless Klub joining with the Texas DX Society. Notable, too, is the turning to by members of the Northern Illinois DX Association — entering the coveted top ten and placing sixth.

Alms, Pse?

Putting together the data for a DX Competition writeup isn't easy. Just ask Dan, WAIQNF; Bill, K1WJ; Rita, WAIWEV or myself (K1ZX). Between the hours of working on 2754 logs and Rita's hours of typing at the composing machines, stock in Excedrin *must* be up.

As we've stressed throughout this writeup, conditions were way up. By next year we should be rewarded for our years of suffering with the merciless Griznoid, Ruler of Bad Propagation.

1977 DX Competition

Scores are grouped with U.S. and Canadian entries first, DX later. Logs are broken down by continent; within a continent alphabetically by country prefix. Line scores read call sign, score, contacts, multipliers, power category and hours of operation. Example: W1ZM, 2,062,618 points, 2179 contacts, 314 multipliers, power over 500 watts and operating time of 96 hours. Power categories are A, 150 watts or less, B, 150-500 watts, and C, greater than 500 watts. An asterisk next to a U.S. or Canadian entry denotes ARRL staff member, ineligible for award.

U.S.A.	New Hampshire	W2GKZ	122,301- 321-127-C-20	WB2KNZ	11,088- 88- 42-B-	Western Pennsylvania
CW	K1GQ 1,587,936-1904-278-C-68	W2CFC 88,530- 227-130-C-15	WB2FIT 1,004,724-1329-252-C-74	3	K3KO 242,880- 506-160-A-54	K3HZL 167,808- 368-152-C-24
Single-Op	WA1ABV 1,307,136-1702-256-C-75	WB2FKF 88,530- 227-130-C-15	W2IRV 87,963- 269-109-A-20	Delaware	W3HHD 162,900- 362-150-B-29	K3HWL 11,745- 87- 45-C-7
1	K1NH 180,999- 507-119-A-55	W2SGK 71,820- 210-114-C-24	W2TLE 65,007- 233- 93-C-15	W3DA 175,098- 379-154-B-30	4	
Connecticut	W1JSM 31,785- 163- 65-B-15	WB2LWE 53,180- 140- 79-C-22	WA2CXV 13,197- 83- 53-B-10	Eastern Pennsylvania	Alabama	
	WL1QQ 6510- 62- 35-B- 4	WA2MMS 8448- 64- 44-C-22		K3II 897,435-1221-245-C-	W8FAW/4 1,088,640-1296-280-C-60	
	Rhode Island	Northern New Jersey		K3JX 855,177-1173-243-C-77	N4NO 1,049,904-1268-276-C-70	
	K1GMW 118,503- 297-133-C-28	W2GXD 2,061,900-2291-300-C-82		W3AP 770,718-1066-241-C-50	W3ZJ/4 126,492, 254-166-C-35	
	Vermont	WB2RJJ 973,896-1364-238-C-58		W3OV 734,613-1243-197-C-49		
	K2LE/1 1,377,090-1605-286-C-74	W2HTR 245,340- 470-174-C-44		W3KFK 588,984-1012-194-C-37	Georgia	
	W1KQ 1208- 36- 26-C- 3	WB2RKK 217,551- 571-127-C-15		W3YIK 558,675- 975-191-C-60	WB4KSS 255,420- 473-180-A-76	
	Western Massachusetts	WA2DDB 133,620- 340-131-B-		W3MHD 461,835- 933-165-C-		
	WA1ABW 1,649,508-2044-269-C-68	WA2ZWH 127,908- 418-102-A-52		K3ZOL 375,888- 764-164-C-12	Kentucky	
	W1YK(K1IR,opr.) 315,776- 788-134-C-29	W2ZZ 86,070- 302- 95-C-20		W3GK 368,490- 710-173-C-58	K4GSU 1,962,360-2070-316-C-76	
	W1DKU 91,476- 252-121-A-31	WA2EJZ 82,716- 244-113-B-27		W3AZ 336,117- 619-181-C-40	W4BCV 208,803- 427-163-C-34	
	W1PWK 27,216- 126- 72-B-25	W2HUG 65,934- 199-111-A-23		W3MWD 326,025- 621-175-C-	North Carolina	
	2	WA2IRS 65,088- 226- 96-A-22		W3VK 280,896- 608-154-C-	W4TYE 523,629- 797-219-C-61	
	Eastern New York	WB2SZO 52,614- 237- 74-C-18		W3ARK 250,848- 536-156-A-45	N4AA 418,950- 798-175-C-35	
	W2AHO 487,674- 821-198-C-48	W2HN 41,850- 150- 93-C-17		W3KT 148,230- 366-135-C-48	WB4MKP 129,861- 307-141-B-55	
	W2HO 449,880- 815-184-C-67	W2RS 19,992- 101- 64-C-12		W3GID 132,866- 334-133-C-30	W4JLWO 122,850- 315-10-C-44	
	W2HAI 285,600- 560-170-A-	W2MB 6612- 58- 38-C- 3		W3EJV 125,730- 330-127-C-20	N4GC 48,216- 164- 98-B-21	
	WB2BXL 223,440- 532-140-C-48	W2UL 1575- 25- 21-A- 8		WB3BKD 91,800- 306-100-C-45	W4QMW 17,112- 92- 62-C- 9	
	W2AWF 171,450- 450-127-C-55	Southern New Jersey		W3BT 28,830- 155- 62-C-10	WB4KZG 2856- 34- 28-B- 5	
	K2BK 160,290- 411-130-C-25	W2REH 1,588,176-1614-328-C-56		WB3EL 16,422- 119- 66-B-26	Northern Florida	
	WA2LJM 95,658- 298-107-C-45	W2HBT 961,704-1444-222-C-60		W3HMR 15,150- 101- 50-B-13	K4YFQ 838,320- 998-280-C-52	
	K2SD 69,495- 205-113-C-11	K2SB 848,925-1225-231-C-50		W3M 8667- 107- 27-C-	W4WKQ 56,163- 193- 97-C-33	
	W2FPG 55,860- 196- 95-C-15	K2FL 536,484- 724-247-C-67		Maryland - D.C.	W4BAX 6240- 52- 40-A-42	
	W2MNM 22,656- 128- 59-B-	W2JOC 318,792- 660-161-C-		W3LPL 2,424,474-2391-338-C-84	South Carolina	
	WA2AUB 14,193- 83- 57-C-12	W2YLL 312,776- 04-148-C-26		K3ZO 1,762,605-1965-299-C-78	W1WVL/4 243,675- 475-171-C-51	
	K2HA 5148- 52- 33-A-11	WA2PAJ 297,500- 500-195-C-42		K3GJD 1,472,532-1772-277-C-82	K4OAG 50,430- 205- 82-B-32	
	N.Y.C.-L.I.	WA2AEJ 275,049- 549-167-C-75		W3KOC 912,516-1364-223-C-79	K3YGU/4 17,490- 110- 53-C-26	
	W2AEE(WA2ZKY,opr.)	WA2VAT 175,671- 393-149-B-		N3CW 765,765-1309-155-C-60	Southern Florida	
	W2SJK 250,974- 573-146-A-	W2EA 132,969- 349-127-B-53		W3AZ 595,608-1079-184-C-61	N4RR 1,217,430-1670-243-C-74	
	W2EUD 208,800- 435-160-B-50	K2TD 120,930- 290-139-C-35		W3EYF 467,832- 772-202-C-		
	K2MFY 179,955- 387-155-A-7	WA2VVA 83,792- 251- 84-C-16		K3AV 438,162- 709-206-C-50		
	K2YGM 168,630- 385-146-C-41	W2GFE 62,712- 312- 67-C-18		W3FCF 232,344- 461-168-C-47		
		W2SDB 47,214- 183- 86-C-17		N3II 219,924- 447-164-B-42		
		N2CQC 46,008- 213- 72-C-12		N3OS 178,500- 425-140-B-56		
		W2FGY 7869- 61- 43-B-10		K3TW 141,264- 327-144-C-14		
				K3Z 130,665- 290-145-C-50		
				W3EJ 72,822- 229-106-B-45		
				W3RSK 72,306- 206-117-C-19		
				W3AV 62,568- 264- 79-C-20		
				W3HM 38,808- 154- 84-C-10		
				W3AHJ 21,507- 107- 67-C-7		
				W3TN 18,054- 102- 59-A-34		
				W3QD 13,371- 24- 19-C-20		
				W3TUX 48- 4- 4-B- 3		

2			Maine			Northern Florida			Washington			W1BB/1			969- 19- 17-A- 9																																																		
Eastern New York W2PV(+K1ZZ,W1CW,WA1NNC, K2TTG,WA2SPL,WB2s,AXY,CKO OEU) 4,655,016-3748-414-C-96			W1HWL 159,216- 496-107-B-36			W4WHK 258,534- 542-159-C-60 WBACTI 7584- 79- 82-C-10 W4EE0 4800- 40- 40-A-20			WA7OBL 213,624- 774- 92-C-53 W7ETZ 175,104- 608- 96-C-41 WA7T1M 161,700- 770- 70-C-52 WA7JCB 160,512- 704- 76-C-36 W7MCO 82,080- 390- 72-B-34 W7APN 56,880- 316- 60-C-11 W7BUN 29,193- 263- 37-C-14			New Hampshire W1UN 82,620- 306- 90-C-23 K1CZM 900- 20- 15-A- 6			Rhode Island K1TZQ 144,126- 471-102-C-48			Western Massachusetts WA1FBX 3690- 41- 30-C- 6			2			Eastern New York W2HHC 154,344- 472-109-C-36 W2IB 143,016- 404-118-C-8																																									
Northern New Jersey K2CW(multiop) 1,526,382-1779-286-C-89			New Hampshire K1FWF 348,552- 824-141-C-56 W1HMF 91,485- 321- 95-B-24 W1GME 30,378- 166- 61-C-19 W1NH 5808- 44- 44-B- 6 WB1AHX 2418- 31- 26-A- 8			South Carolina WB4NRI 53,580- 235- 76-C-48 WB4WOK 12- 2- 2-A- 1			Michigan K8ETO 473,229-1031-153-C-66 K8QWG 18,252- 117- 52-B-22 WB8DTT 106,080- 340-104-C-35 W8KME 10,062- 86- 39-C- 7 W8RXI 7854- 77- 34-B- 6			Ohio K8UQA 402,705-1413- 95-C-60 K8RMM 153,300- 511-100-A-40 W8BRJ 109,492- 210-104-C-35 K8PSG 101,850- 350- 97-B-40 WB8QIS 35,991- 279- 43-C-29 W8GQU 21,114- 138- 51-C-21 W8AOM 17,331- 109- 53-A-95 K8NJV 6075- 81- 25-B-11 W8ICC 5664- 59- 32-B-30 W8IRT 1794- 26- 23-B- 7			Tennessee N4ZZ 178,176- 512-116-C-25 WA4FDR 102,144- 304-112-C-17 WB4WFT 44,280- 180- 82-B-14 WA4MKU 38,151- 157- 81-A-23			Virginia N4MM 711,810-1438-165-C-50 K4HLJ 344,871- 723-159-C-49 K4ZVS 125,664- 374-112-C-49 N4XD 116,358- 451- 66-C-49 WA4MSX 11,454- 83- 46-A- 6 W4ZM 4410- 42- 35-B- 2 WA4SGV 150- 10- 5-A- 1			Illinois W9NLR 233,160- 580-134-C-42 W9FT 89,178- 334- 89-C-30 K9LON 46,493- 383- 77-C-22 WB9HAD 45,342- 229- 66-C-60 K9MMS 36,000- 200- 60-B- W9QWM 24,000- 125- 64-B- W9TNZ 12,402- 78- 53-A-26 WB9GUZ 2673- 33- 27-B- 9			Indiana WB9LHI 821,100-1564-175-C-58 W9LT 554,580-1185-156-C-34 W9JOO 131,544- 378-116-C-36 W9WCE 48,837- 223- 73-B-27 W9FFZ 15,105- 95- 53-A-36 W9WZS 2277- 33- 23-C- 2			Wisconsin W9BJO 50,358- 218- 77-B- W9TSL 45,069- 181- 83-A-40 W9NME 28,359- 137- 69-B-21			Iowa W9PRY 314,415- 685-153-A-40 W9WCR 167,805- 495-113-C-46 W9VBW 18,054- 102- 59-B-25 W9BLJ 17,100- 100- 57-A-23 W9PYD 15,435- 105- 49-A-10			Kansas K9FPC 2625- 35- 25-A- 9			Minnesota W9OUE 427,140-1017-140-C-61 W9ADI 52,059- 259- 67-C-25 W9OLL 528- 16- 11-B- 8			Missouri W9TDR 270,570- 622-145-C-27 W9EO 235,440- 654-120-C-48 W9GDN 49,493- 313- 78-22 W9HBB 35,478- 162- 73-C- W9TDZ 32,550- 175- 62-C-30 W9RJK 11,766- 106- 37-C-32 W9LN 11,610- 90- 43-C- 6 K2EKM/Q 1518- 23- 22-B- 3 W9AQO 60- 5- 4-B- 2			North Dakota W9JWL 24- 4- 2-B- 2			Canada W9EIEK 19,968- 128- 52-A-13 VE1UNB 585- 15- 13-B- 4 VE1AMN 90- 6- 5-B- 1			Ontario VE3DCI 118,575- 425- 93-C-60 VE3EJK 98,208- 352- 93-B-30 VE2AEJ/3 20,511- 129- 53-B-28 VE3WW 4488- 44- 34-B- 6			Saskatchewan VESYA 114,300- 508- 75-C-30			Alberta VE6KW 157,680- 720- 73-C-42 VE6AMR 17,649- 159- 37-C-22 VE6AVO 6864- 88- 26-A-10 VE6CEC 510- 17- 10-C- 3			Low Band U.S.A. 1 Connecticut WA1UAC 71,841- 311- 77-C-35 WA1YFW 960- 20- 16-B- 6			Eastern Massachusetts W1NJL 209,880- 583-120-B-54			Illinois K9DWK 53,676- 213- 84-C-36		

Wisconsin			K2TD 99,750-266-125-C-31 W2LYL 80,976-241-112-C-10 W2PAU 79,125-211-125-C-27 W2FBB 77,592-212-122-C-20 W2FY 59,899-217-92-C-25 K2SB 21,624-106-68-C W2SDB 21,200-28-25-C-6	W4UBE 17,952-88-68-B-38 W4ADU 8280-60-46-C-6 W4DM 6786-58-39-C-2 K4WVT 4950-50-33-C-5 W4EZ 4287-43-33-C-5 K4ZVS 2652-34-26-C-9	Nevada		Missouri	
WB9MOG	10,449- 81- 43-C-24				W7JUO 28,350-126-75-C-31	KQGSV 14,418- 89- 54-C-12 WQYQG 11,742-103-38-C-29 WBJRP 11,178- 69- 54-B-8 WPKO 1701- 27- 21-C- 8 W9FF 1512- 24- 21-A- 2		
Iowa					W7TML 1,250,571-1921-217-C-72 W7IHN 356,574- 887-134-C-72 W7VIC 167,577- 673- 83-C-56 K7GGY 34,365-145-79-B-25	Nebraska		
WFFHE	18,054-102-59-C-16				W7H5 143,640-360-133-C-55 W7HCQ 43,890-209-70-C-27	WQSBZ 18,612- 94- 66-C-21		
Minnesota					Utah		North Dakota	
WB9ANT 22,770-110-69-C-35 KBHG 756- 21- 12-B-					W7H5 143,640-360-133-C-55 W7HCQ 43,890-209-70-C-27	WQJWL 17,298- 93- 62-B-30		
Missouri					Washington		South Dakota	
WB9NOU 44,100-196-75-C-37 WA9FBQ 25,530-115-74-C-45					K7DZ 736,485-1327-185-C-72 W7HAD 252,627- 787-107-C-40 K7MOK 103,305- 355- 97-C-24 W7BRU 102,018- 347- 98-C-41 W7WY 67,200-224-100-C-12 W7OF 33,180-158-70-C-24 W7LF 7626- 62- 41-C-10 K7RSB 2331- 37- 21-C- 4 W7GJLT 1767- 31-19-C-13 W7JEG 1224- 24-17-C- 4	WQ9NL 1,020,225-1115-305-C WA9CPX 840,084-1022-274-C-80 WBWU 36,105-145- 83-C-		
Canada						Canada		
Albarta						Maritime-Newfoundland		
VE6AYX 405- 15- 9-B-12						VE1BKB(VE3A1A,opr.) 750,000-1250-200-B-43 VE1AH 168- 8- 7-C-		
U.S.A.						Quebec		
Phone						VE2AYU 341,640- 730-156-C-67 VE2YU 20,079- 97- 69-C-		
Single-Op						Ontario		
1						VE3KZ 340,704- 546-208-B-25 VE3MV 40,257- 189-71-C-23		
Connecticut						Manitoba		
WA1STN(WA1JLD,opr.) 1,691,352-1668-338-C-71 W1HFB 1,012,626-114-309-C-71 W1YG 892,920-1063-280-C WA1SSH 506,100- 700-241-A-68 W1GPK 479,196- 783-204-C-49 W1KOC 118,950- 305-130-B-20 W1NSW 99,900- 300-111-C K1THQ 62,790-182-115-A-20 W1VW 51,300-171-100-C-15 W1AB 41,184-143-96-C-9						VE4KE 340,197- 793-143-C-58 VE4RF 106,704- 312-114-B-62 VE4JK 70,896- 212-111-B-31 VE4XJ 36,975-145- 85-C-15		
Eastern Massachusetts						Saskatchewan		
W1YN 1,260,765-1415-297-C-70 WA1JUY(WA2ROZ,opr.) 304,920- 605-168-C-43 W1MR 295,182- 529-186-C-50 WA1RBR(WB2GXW,opr.) 219,726- 626-117-C-35 W1HWM 161,109- 351-153-B-39 W1YZL 88,572- 242-122-C W1DYH 77,490- 246-105-C-47 W1FJJ 70,305- 215-109-C W1UJU 34,962- 138-124-C-4 W1CRL 2916- 36- 27-A- 6						VE5RA 481,320- 840-191-C-		
Maine						Albarta		
K1RQE 589,788- 762-258-C-36 W1SD 161,109- 351-153-C K1VMQ 10,665- 79- 45-C- 5						VE6LU 224,220- 505-148-C-60 VE6AGV 56,916- 306- 62-C-16		
New Hampshire						British Columbia		
W1LQK 141,570- 390-121-B- W1HAF 101,682- 269-126-A-34						VE7AZG 89,622- 383- 78-C-30		
Rhode Island						Multi-Single		
K1HMO 243,576- 408-199-C-40						U.S.A.		
Vermont						1		
K2LE/1 1,461,042-1551-314-C-70 K1IK 610,080- 820-248-C-67						Connecticut		
Western Massachusetts						K1JHX(+K1VTM) 1,999,488-2032-328-C-74 WA1NRF(WA1S MAO NSW OCU 220 Net) 1,839,447-1767-347-C96 WA1QNF(+WA1S SQB STN ST0, WA8TBQ, WB8NAS, 220 Net) 1,018,095-1135-299-C-85 WA1WEM(+W1GMC) 78,768-1001-256-C-88		
WA1ABW 2,093,904-2096-333-C-71 WA1FBX 125,202- 271-154-C-43						Eastern Massachusetts		
2						WA1EUV(+WA1SSX) 427,176- 698-204-C-60 W1MX(WA1RJX, WA4TTG,opr.) 243,360- 390-208-C-44		
Eastern New York						New Hampshire		
WA2AUB 196,875- 375-175-C-43 W2AZO 150,399- 332-151-C-19 K2SD 384,096- 578-122-C-55 W2MNK 48,594- 182- 89-A W2PFG 37,947- 139- 91-C-11 WA2LJM 27,324- 132- 69-C-28						WA1ABV(+WA1JYY, K2SIL) 2,095,203-1903-367-C-96 W1FMK(+W1FJK, K1FWE) 240,996- 532-151-C-36		
N.Y.C. - L.I.						Western Massachusetts		
WB2FLF 459,837- 811-189-C-38 WA2YHK 236,400- 400-197-C-40 WB25JG 196,020- 396-165-A W2LEJ 155,064- 364-142-B-55 W2GKZ 130,806- 338-129-C-19 W2SGK 84,456- 204-138-C-24 WB2TSB 21,240- 120- 59-C-18 W2IRV 18,600- 100- 62-A-10 W2T5 17,955- 95- 63-C-15 K2VWN 714- 17- 14-C-13						K1RQF(+W1DKU) 237,804- 596-133-C-26		
North New Jersey						2		
W2GXD 1,824,642-1821-334-C-87 WB2RJJ 532,134- 799-222-55 WB2SZO 371,385- 655-189-C-40 WA2UOO 172,272- 388-148-C-13 W2ZZ 74,229- 227-109-C-24 WB2FIT 69,324- 212-109-C-14 W2EQK 67,068- 207-108-C-18 WA2ZWW 63,450- 225- 94-A-36 WA2EJZ 21,840- 104- 70-B-14 W2HN 17,955- 95- 63-C-15 W2RS 13,578- 73- 62-C-11 WB2HJW 5294- 63- 28-B- 4						Eastern New York		
Southern New Jersey						W2BXL(+K2BQ, WA2MNB, WB2CA) 381,060- 580-219-C-85		
W2HMH 2,621,328-2532-388-C-78 K2FL 848,232- 918-308-C-71 WB2HAN 497,553- 817-203-C-63 W2HBT 460,305- 795-193-B-34 WB2LJN 384,250- 578-122-C-55 WA2AEJ 149,247- 309-161-C-35 W2FGY 144,900- 350-138-B-46 W2REH 131,880- 280-157-C-12						N.Y.C. - L.I.		
						WA2LQO(K2UAT, W2S DKM NZ, WA2S HQ PYK, WB2S EUJ, TZW, opr.) 252,540- 460-183-C-40 WA2JAS(multiop) 218,370- 502-145-C-48		
						North New Jersey		
						WB2RKK(+WA2S AJN DBD) 993,870-1227-270-C-90		
						Southern New Jersey		
						W2UI(+WA3KRD) 307,764- 498-206-C-63 N2SS(+ 2MTR NET) 291,084- 508-191-C-28 K2AA(K2S FT KA, W2S NEA ORA, opr.) 766,724- 478-186-C-50		
						Western New York		
						K2IGW(+WA2S ECA MBM) 897,897-1001-299-C-81		

White R.S.S.R.	KL7HRP(+KL7IUM) 1,407,276-2522-186-C-52	High Band	Indonesia	Surinam
Multi-Single	High Band	XE1AFU 451,278-1233-122-B-20	YB0ACH 54- 6- 3-B- 1	High Band
UK2WAF(multiop) 37,812- 274- 46-B- UK2WAO(multiop) 540- 18- 10-A-	KL7IRN 630,300-1910-110-B-50 KL7IQN 108,180- 601- 60-A-44 KL7HDX 16,872- 152- 37-A-10 WA2AJQ/KL7 8613- 99- 29-B- 3	Cayman Islands	Manihiki Islands	JA1PIG/PZ 105,825- 425- 83-A- 8
High Band		ZF1AK 760,641-1249-203-A-32 W9ABA/ZF1* 85,398- 331- 86-A- 8	ZK1BA 669,900-1276-175-B-24	Venezuela
UC2BF 456- 19- 8-B-		Oceania	New Zealand	YV4TI 4,163,922-4721-294-C- WASUKR/YV5 78,039- 299- 87-B-25
Lithuania	Puerto Rico		ZL2ACP 1,237,515-1955-211-A- ZL3BK 94,620- 415- 76-A-22	High Band
Multi-Single	KP4EAS 7,782,324-8132-319-C-86 KP4DSD 3,544,944-4784-247-C- KP4EPN(K4WV,opr.)* 1,247,226-2143-194-C-31	Philippine Islands	High Band	YV5FOI 723,398-1757-138-B-35
UK2BBB(multiop) 932,274-2058-151-B-49 UK2BAS(UP2s PAJ PAO,opr.) 376,740-1092-115-B-30	Virgin Islands	DU6EG 2580- 43- 20-B- 7	ZL2GJ 30,315- 215- 47-B- ZL4IJ 5850- 65- 30-A-	
High Band	KV4JY 234,255- 679-115-A-	High Band	Low Band	Check Logs
UK2PAD(UP2PAQ,opr.) 130,872- 574- 76-B-14		New Caledonia	ZL2HE 49,830- 302- 55-A-16	Cw: DK9NH DM2ABL DM2ADC DM2BLE DM2CDO DM2CGF DM2CGH DM2CKJ DM2CMA DM2CMF DM2CJA DM2DZH DM2FBN DM2FDM DM2FGN DM3HF DM3TNA DM3UFJ DM3WJF DM3WYJ DM3ZC DM4SWL F8FE G3PVA G3UJY HA3MB H8EVA JE2GAL K1YHK K3TGM K6DSK K6QPH LA2IE LB1G LZ1XL LZ2JF N6ZZ OK1IAR OK2BJ OK2BBQ OK2TBC OK3CJ OK3KFF OY3 PA0CLN PA0EFI PA0PHK PA0UV SM2COR SM4AIX SM5AKT SP1DGB SP2FMN SP2GRT SP3DAH SP51X SP6EIV SP8GUV SP9AMH SP9BWA W4BGO/T12 UA1AO UA1OSA UA1ZWW UA3ADP UA3AFQ UA3DAE UA3DCX UA3DDN UA3DEA UA3DIW UA3EAL UA3ECF UA3IAM UA3QDC UA3TAM UA3UAA UA3VAD UA3WBO UA4AY UA4BI UA4CH UA4HEJ UA4PAV UA4YAU UA6WE UA6LLI UA6LXZ UA9HAK UA9MF UA9SDB UA9UPP UA9VJ UA9BBB UA9CBW UA0LJ UA0LL UA0QWB UB5AUF UB5CBB UB5EDJ UB5FAQ UB5IDL UB5JBY UB5JFX UB5LAY UB5NU UB5QCK UB5TAT UB5UBI UB5UBU UB5XBO UB5ZCO UC2ACA UC2LBE UC2RG UC2RV UK1ZAS UK2BBF UK2FAA UK2GAY UK2PAT UK3AAJ UK3VAJ UK5QAC UK6AAJ UK6LDN UK7AAF UK7CAI UK9AAZ UK9WB0 UK9AAC UL7CT UL7EAK UL7FB1 UL7PBK UQ2BGJ UV3CM UV3DN UV9JL UW3UG UW3WZ UW6CV UW9PT UY5AO VE2DWG VE2YU WAITAI W1YJL WA1ZLD W2LKH W2NCI WA2ZBW W3IPS W4BBP W4BRE W6BY7 W6MUR W6R9R W7K9W WBSTWT WB8X WB9KF B YO8BY YU1BGM YU2CDO; Phone: CE5BI CT1EU DL1RB DM2CMF DM2DWN DM2GQL DM3VGG DM3ZC DM4UCO F3E G3G HV3SJ JA7KXD JE2GAL K1BUR K3AV K4KPH K5NM K6DSK/M6 K7GEX K7YDO K9NA K9VUW LA2IE LA6HL N6AA OH1X OH2BAQ OH3XZ OK1DVK OK2BBJ OK3CF5 OK3TAB OZ4JU OZ4VK PA9EG PA0TV PA0UV SL5ZW SM1CXE SM1DYR SM5BFJ SM5GA SM7DMT SM9IX SP3BQD SP4AS SP5STR UA33PF UA3IAM UA3TCH UA6AJG UA6LXZ UA0BAC UC2ACA U1BLG UK2GCF UK3AAJ UK3ACW UK4YY UK5VAD UK6LDN UK6YAB UK7AF UK9DM UK9AAB UK9AAC UQ5BZ UR2REN UV3DN UW3EQ UW9VH UW9MF VE1EP VE2AHE VE2CK/M VE2GQ VE3FFA VE7BGK VE7DEW VK4PJ VK4VU WU2GDG WA1PBE W2GNN W2IKA W2JGR W3GSI EZ W3ZLW40S W6WJW W6RGZ W6RZ W7BCT W8EZ W9YJ W8NN WA4BBU WA4PMU W4EKL WA8TOB W6CA WA9GFR WA9NPM WA8EEI WA0TA WB4JK WB5TIM WB9NME WB9NOU ZE1BL L5T5CJ; Swi: REF 30989
Greenland	High Band	FK8AH 49,077- 287- 57-A-	South America	
High Band	OX3RA 135,642- 611- 74-A-	French Polynesia	Bolivia	
Sint Maarten		FO9RS(K6NA,opr.)* 1,517,292-2268-223-A-21	CP6EL 1,989,900-3015-220-A-36 CPIAT 123,321- 408-101-C- 9	
Multi-Multi		Eastern Caroline Islands	High Band	
UK2GKW(multiop) 826,848-2088-132-B-	PJ8CO(K1CO,W1GYZ,WA2DYK, WB2s DRW GIO OEU WO1,opr.)* 7,239,870-7810-309-C-48	High Band	CP6HE 502,902-1206-139-B-60	
Estonia	Guatemala	KC6KO(WB2WSP,opr.) 22,650- 151- 50-B-12	Ecuador	
High Band	VE2AQS/TG9 4,327,155-4579-315-B-63	Guam	HC5EE 371,805- 925-134-C- 9	
UR2AW 1530- 34- 15-A- 4		High Band	Multi-Single	
Yugoslavia	Antigua	KG6JHW 6216- 74- 28-B-13 KG6JAR 3024- 48- 21-C-	HC5CRC/5(multiop) 8742- 94- 31-A- 4	
Multi-Single	Multi-Single	Low Band	High Band	
YU3DBC(YU3s TPZ TYX ZV, opr.) 1,935,450-3450-187-C-92	W6QL/VP2A(+W6KG)* 2,055,780-2916-235-A-44	KG6JH 125,904- 488- 86-C-20	HC1BU 2,442,192-4904-166-B-60 HD9EE 135- 9- 5-B- 1	
High Band	St. Lucia	Hawaii	Argentina	
YU1BCD(YU1NZV,opr.) 622,098-1938-107-C-48 YU2CDS(YU2RQX,opr.) 612,990-1946-105-C-	VP2LDQ(WA9FXJ,opr.)* 246,861- 669-123-B-19	KH6IJ 4,244,226-5089-278-C-77 WB5KVC/KH6 3132- 58- 18-A- 6	High Band	
Malta	High Band	Multi-Single	LU1ADI 184,032- 568-108-B-19	
High Band	VP2LCG(K0KJS,opr.)* 72,954- 386- 63-B- 6	Multi-Single	Peru	
9H4G 11,583- 99- 39-B-12		KH6GQW(+KH6GMP) 4,407,690-5285-278-C-96	OA8V 386,370- 810-159-A-21	
North America	Montserrat	High Band	High Band	
Bahama Islands	Multi-Single	KH6BZF 1,605,744-3304-162-C-64 KH6JFI 312,708-1012-103-C-19 KH6JJA 297,330- 935-106-B-22	W1DKB/OA4 728,190-1674-145-C-53	
Multi-Single	VP2MNK(VP2MGB,W0NAR, WA9ONK,opr.)* 2,869,344-3888-246-B-48 VP2MAQ(W6s KG QL,opr.)* 2,433,552-3352-242-C-44	Midway Islands	Netherlands Antilles	
W4SS/C6A *(+W4s OO PJG RA SS, WB4PQB) 1,514,460-2348-215-A-31	St. Vincent	High Band	WIDKB/OA4 728,190-1674-145-C-53	
Dominican Republic	VP2SZ(WB8JEY,opr.)* 406,080-1128-120-C- 9	KM6FC 1785- 35- 17-B-19		
High Band	Bermuda	High Band	Brazil	
HI8MOG 470,580-1364-115-C-11 HI8CDS 294,984- 964-102-C-12 HI8LC 26,319- 283- 31-B- 8	High Band	VK2XT 122,472- 504- 81-B-24 VK4AK 118,818- 483- 82-B- VK5RX 2832- 59- 16-A- VK4PJ 1554- 37- 14-A-	PJ2FR 2,595,957-3367-257-A- PJ9JT(W1BIH,opr.)* 1,364,688-2106-216-B-19	
Alaska	Mexico	Low Band	PY3APH 180,711- 621- 97-B-	
Multi-Single	XE1LLS 3,928,344-4886-268-B- XE2MX 867,969-1581-183-B-	AX4VU 112,392- 446- 84-A-12 VK3QI 24,957- 141- 59-B- VK4QK 4725- 63- 25-B-	Multi-Single	

Disqualifications: The following have been disqualified from the 1977 ARRL DX Competition, per the criteria described on page 85 of January QST, 1977. **Phone:** K1EA W1NJL W1ZA (operators of W1ZA), W3RJ WA3LRO (operator of W3WJD), W6RTT. **Cw:** K1EA (operator of W1ZA), WA1LNO K2BMI W2GGE WA2YHK K3UEI K3WJV K3WW W3HXX WA3LNM (operators of K3WW), WA1LNO

CX1EK WA2LQZ K3EST W3AU W3IN WA3HRV (operators of W3AU), N3AD W3BGN W3IGQ (operators of W3BGN), K3DZB (operator of W3RJ), K3JGI WA3YGH WA3YHT (operators of WA3YGH), WA3UFW WB4YKU (operators of WA4UFW), K6MA WA7RKR (operators of K6MA), K6PJY N6VV WA6FWJ WA6NGG (operators of WA6NGG).

Strays

1976 DX Competition
KH6GQW is incorrectly listed as a phone single-op entry. Correct status is as multi-single with KH6GMP as second op. KH6GQW is also Oceania Continental winner, not C21NI as shown. The scores of G4ANT, HB9AUS, YV1AVO are shown in single-op listings; all are multi-single participants. JF1MYI is incorrectly shown as

JA1MYI in the single-op scores from Japan.
1976 Sweepstakes
□ Southwestern Division phone winner is W6HX, now K6AC as printed. Midwest Division low-power winner should be W0NVP, not WA0PAO, K1VTM is incorrectly listed as multiop phone winner in New England Division. The correct winner is K1KDP.
Phone single-op winner for the Mad River Radio Club is WA8PLZ

(WB8AYC, op), not WA3WIK. Winning single op on phone for Motor City Radio Club is K8SIA, not WA8FRE as shown. K5VTA should be listed as op of Northern Texas Division first-place finisher W5TMN. The club listings incorrectly show the IBM Owego Club as the IBM Oswego Amateur Radio Club.
10-Meter Contest
The second operator at the MDC multiop station WB3BSV is shown as K3ZZ. The correct call is W3ZZ.