

Results, 1978 ARRL International DX Competition

Record participation, record scores, and records perhaps never to be broken.

By Tom Frenaye,* K1KI

The smoke has finally settled after the finish of the last two-weekend-per-mode ARRL DX Competitions. A record 3445 logs representing an overall increase of 13.5 percent contributed to the many new record scores.

The increase in sunspot numbers over last year's contest, especially on the phone weekends brought the multiplier and QSO totals way up. The change was most evident on 160 and 10 meters. On 10 meters this year W2PV squeezed out 117 countries on phone compared with the 48 the W5TMN group worked last year. On 10 cw the gang at W4BVV found 86 countries compared to the 40 found by W3TV in '77. On 160 meters the opposite was true with 14 multipliers on phone and 19 on cw this year compared with 22 and 29 last year.

Things were so good, in fact, that many people never did make it to the low bands since they could work 20 meters all night long and 15 long after sunset. The low bands weren't that much worse this year but seemed to be because so many did stay on the high bands. Top honors for W/VE high banders this year go to N2LT on phone and N2OO on cw with both averaging close to 50 QSOs per hour for the 96-hour period. On the low bands W1FC nosed out K3ZO on phone, but on cw K3ZO (now HS1ABD) edged out N4UM. Turns out Fred only decided to enter under the low-band category at the last minute after winter storms eliminated all-band possibilities.

From the DX end of the contest, high-band honors on phone went to HC1BU with an astounding 7400 QSOs and a score big enough to place third in the world for single-operator stations. On cw, K5PM, operating KP4USN, turned in the best high-band score. On low-band phone KP4WI took advantage of his proximity

to the U.S. to best G4AMT. Low-band cw saw an absence of the usual Caribbean/South American activity and I0JX edged I2XXG for honors.

Single-operator scores were dominated by the giants on the East Coast. Only one score from west of the Mississippi made the top ten — WA1KKM operating N7XX on phone made up for the lack of European multipliers by an incredible number of JAs and placed number two. First place on phone was turned in by K1ZM operating W1ZM. Jeff's 11 multipliers on 160 were topped by only one station — W2PV. The third spot went to W9ZRX, back on the air after a few years of planning and construction.

On cw, W3LPL pulled it out over some heavy-duty competition, while W3RJ's effort netted him second place. Claimed scores made the final winner a toss-up, but in the end PVRC's premier cw single operator bested the one from the Frankford RC. It was about the only victory PVRC could claim this year, though. Four of the seven top-ten cw scores were from New England, with the YCCC taking advantage of the good conditions to increase their score. W3BGN was the only operator at his own station to place in the top ten on both modes, though K1ZM

managed it from W1ZM. Doing it on both modes may be the toughest challenge the contest offered.

From the DX point of view, KH6IJ on phone and KP4EAJ on cw walked away with the honors, as they have done many times in the past. EL2T was number two on phone and the lone African entry in the top ten, either mode. Outstanding performances were also turned in by three Europeans who broke the top ten on phone this year. G3ZQW did an especially fine job with 2.5 million on the high bands only! On cw, N6CJ operating from XE1FX nosed out PJ2VD for the second position. ZL1ADI was the only station from the Southern Hemisphere to break through with a number seven finish and DK3GI rounded out the ten spots with the top European score. Both KH6IJ and PJ9JT (W1BIH) placed in the top ten on both modes, with PJ9JT's operation being only one weekend. Watch out next year!

Stations west of the Mississippi finally broke into the big time with some fine multi-single efforts. The top finishers were from the East (W1ZA, on phone and K4VX on cw) but six of the ten top multi-single scores on phone came from the West with K5JA leading the pack, followed closely by WA7NIN. On cw K4VX

Top Ten DX Single Operator

Phone	CW
KH6IJ	5,702,052
EL2T	4,402,125
HC1BU	3,760,926*
KH6WF	3,364,296
OZ5KF	3,316,776
I3MAU	2,963,448
FP8DX	2,860,260
PJ9JT	2,583,774
H18CDS	2,517,000
G3ZQW	2,516,976*

*High band only

Top Ten W/VE Single Operator

Phone	CW
W1ZM	3,973,704
N7XX	3,392,280
W9ZRX	2,902,698
N4RV	2,874,690
W3BGN	2,859,948
K9HMB	2,831,688
N1GL	2,788,989
K1BW	2,592,636
W3LPL	2,546,412
W9RE	2,226,159

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was closely challenged by N3RD, K1TO and W4NL/3, with three California stations breaking into the first ten. N3AD placed number five on cw with the assistance of the FRC spotting net, showing that a one-man show can be competitive in the multi-single category.

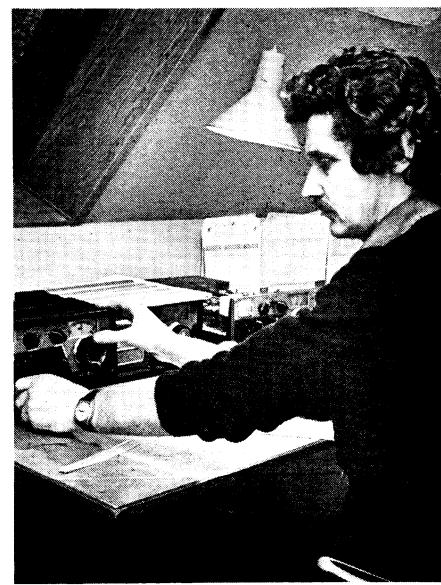
Multi-single overseas entries on phone stacked up to show KH6DL as the big one, nosing out several one-weekend efforts from the Caribbean. European multi-singles were led by I0RDJ, followed by EI9CB. The folks at JA3YKC led all Asian entries for the second year in a row. On cw, all of the big scores came from Europe, with DK0TU edging out OK1ALW and YU2ACD for the number one slot.

This year's contest provided two rather incredible multi-multi scores — those of W2PV on phone and W4BVV on cw. The table entitled "Multi-Multi Madness" will give you an idea of the magnitude of their top scores and a comparison of the two stations. The totals at the end of the first weekend are also very impressive — more on that later.

Multi-Multi entries from DX stations showed JA9YBA (phone) and JA7YAA (cw) to be the best, with JA7YAA a repeater from last year.

The club competition in 1978 was very spirited. The Frankford Radio Club, after being edged out last year, stormed back with 133 entries this year (averaging one million points each!) to pull far ahead of the second-place Potomac Valley Radio Club and third-place Yankee Clipper Contest Club. Club competition next year will be a bit different (as detailed in August *QST*) with three levels of competition. The Colorado Contest Conspiracy with a big effort at K0RF and the Indy DXers with the return of W9ZRX made

OZ5KF, his harmonics, his station and his antenna farm. Antennas are 4 over 4 element quads for 10, 15 and 20 meters at 145 and 70 feet, 3-element Yagi for 40 meters at 125 feet and a 2-element wire beam for 80 meters. The tower is 170 feet in height. OZ5KF is the single-operator phone European continental champ and number five single-operator phone, worldwide.



Division Leaders — Phone

All	Low	High	Division	Multi-Single	Multi-Multi
W3BGN	K3ZO	K3KG	Atlantic	N3RD	W3AU
W9ZRX	K9PPY	W9LF	Central	K9KA	—
W0UC	—	N0AT	Dakota	K0KX	—
K5UR	WA4MFS	W5AQ	Delta	W5RU	N5TV
WA4QMQ	W8TWA	W8FF	Great Lakes	N8JW	K8LX
W2RQ	WB2RTF	N2LT	Hudson	W2YV	W2PV
W0EJ	N0RF	K0LUZ	Midwest	WB0RET	—
W1ZM	W1FC	WA1UZH	New England	W1ZA	—
N7XX	W7LJ	W7WA	Northwestern	N7RO	—
WA6PGB	WA6DNM	WA6TKT	Pacific	WA7NIN	W6YX
N4RV	AA4VK	N4MM	Roanoke	K4VX	W4BVV
W5YZ	—	W5JW	Rocky Mountain	WB0LLR	K0RF
W4WKQ	N4WW	N4NX	Southeastern	N4KG	—
K6NA	WA6WZO	WA6EKL	Southwestern	N7DD	N6SV
K5DX	K5JZY	K5BZU	West Gulf	K5JA	K5TM
VE5RA	VE3BBN	WB2RLK/VE1	Canadian	VE6WQ	—

Division Leaders — CW

All	Low	High	Division	Multi-Single	Multi-Multi
W3LPL	K3ZO	N2OO	Atlantic	N3RD	W3AU
N9MM	K9JF	W9LT	Central	WB9CEJ	—
W0HP	K0KX	W0UO	Dakota	—	—
K4XU	N5DX	K5KLA	Delta	W4EAL	N5TV
N8ET	W8TWA	N8JW	Great Lakes	K8NZ	K8LX
N2LT	WB2RTF	W2IB	Hudson	WB2SJG	W2PV
WB0KWI	N0RF	K0MM	Midwest	K0AT	—
W1ZA	W1PL	K1DG	New England	K1TO	—
N7XX	K7UR	W7WA	Northwestern	K7TU	—
N6RO	N6BT	K7OX	Pacific	N6OP	W6YX
N4RV	W4UQ	W4HBK	Roanoke	K4VX	W4BVV
N7NG	WA5YTX	W5TVX	Rocky Mountain	K0FX	K0RF
N4WW	N4UM	N4NX	Southeastern	N4OL	—
N6AR	N6WO	N6CW	Southwestern	K6RR	—
N5TP	K5JZY	W5MYA	West Gulf	W5AC	K5RC
VE5DX	VE1AXT	VE6KW	Canadian	VE4OY	—

big jumps in score this year to join the top ten.

One weekend DXpeditions went to all continents this year, with the Caribbean being the favorite spot. A very close race was produced on phone with PJ8CO, VP2MT and W0UO/6Y5, along with

non-DXpeditioners KP4ENV all breaking the five-million-point mark in 48 hours. The PJ8CO group came out on top with 5.4 million points.

Now for some of the complaints. Looks like the 10-minute rule instituted this year helped to cut down on the abuses in the

multioperator, single-transmitter category. A number of people were unhappy with it but on the whole it seems to be a welcome change. Duplicate contacts in the logs continue to be a major problem, but the number of dupes found in W/VE logs was down from last year. However, the number found in DX logs was considerable. Remember to take the time to prepare your entry before you send it in — duplicate QSOs, if left in the log, will get you a three-for-one penalty. If the total number of dupes is more than two percent, it means disqualification beginning in 1979.

The usual problem of stations not signing their call signs for every QSO and late logs are still with us. Please watch those deadlines!

Now for next year. The Contest Advisory Committee recommended to the ARRL Board of Directors in July that the DX Competition be reduced from two weekends per mode to one per mode. For 1979, this means that the phone weekend will be March 3 and 4 and the cw weekend will be March 17 and 18.

Instead of waiting until the last minute, how about sending away for entry forms today for the 1979 DX Competition? It never hurts to be early.

The scores were typed in a slightly different format this year, as we are trying to cut down on the space used, and make them more readable and useful for comparisons. The multi-multi scores are listed in order by score rather than by section or country because the competition in that category is not on the local level.

Now that you've seen it all, how would you do it? Are there any comparisons you'd like to see made? What could be added or deleted from the writeup? Remember that there is only so much space for contest writeups. On the other hand, the most important thing may have been left out. Want to change the rules? Make sure to write your CAC representative and let him know how you feel (W1NG, K2SX, W3HQT, K4PJ, W5MYA, N6NB, K7GM, K8IA, K9UIY, K0MM, VE7TT). Send the letter to HQ and it'll be forwarded to all CAC members.

Soapbox

Happiness is working two stations on the same side of the checksheet! (W4BAA) This soapbox is correct and true. (N6DE/K5FC) [OK, Mojo, we get the picture. But you were only the second of two people to spot the spelling error on the DX Competition summary sheet. We promise to correct the error on the next printing. — BJJ I had four stations in I-land take time in the contest to tell me that DIO means God in Italian. (WA1DIO) Remembered to send the logs in because it is due the same day that income tax is due. Hi! (WB5TDO) Could have had about 20 percent more contacts,

ARRL Affiliated Club Scores

Club Name	Score	Entries	CW Winner	Phone Winner
Frankford RC	133,888,530	133	W3RJ	W3BGN
Potomac Valley RC	102,332,480	101	W3LPL	N4RV
Yankee Clipper CC	81,061,450	81	W1ZA	W1ZM
Northern Cal. CC	24,044,093	38	N6RO	N6BV
Western Washington DXC	18,030,816	47	N7XX	N7XX
Northern California DXC	17,201,650	48	W6NKR	N6QR
Wireless Inst. of NE	15,839,853	36	N2NT	W2RQ
Murphy's Marauders	14,616,516	24	W1NG	K1BW
Colorado Contest Conspiracy	14,039,117	7		W0CP
Indy DXers	11,444,571	12	N9MM	W9ZRX
Texas DX Society	9,083,238	12	K5DX	K5DX
Southern California DXC	9,008,442	23	N6AR	K6RR
San Diego DXC	8,833,598	14	N6CW	K6NA
Mad River RC	8,436,910	16	N8ET	W9LT
Willamette Valley DXC	8,088,630	16	W7NI	W7EJ
North Texas CC	7,144,927	15	W5MYA	WD5EWP
Northern Illinois DX Assn.	6,982,730	16	K9DX	W9ZA
Gloucester County ARC	5,559,685	20	N2CQ	N2CQ
Twin City DX Assn.	5,379,834	5	W0HP	—
III-Wind Contesters	4,778,793	10	WA9PBK	K9HMB
Flyweight DX Group	4,637,945	20	N4DW	N4TN
Michigan DX Assn.	4,258,716	8	N8JW	W8LU
Eastern Iowa DX Assn.	4,174,488	21	W0VU	K0LUZ
Order of Boiled Owls of NY	4,162,772	8	K2LE/1	K2LE/1
Central Virginia CC	3,586,238	7	WB4BVY	W4XR
Central Arizona DX Assn.	3,446,574	3	—	—
Kansas City DXC	3,292,863	17	WB0KWI	WA0AGN
Richardson Wireless Klub	3,172,713	10	N5TP	K5NW
Southeastern DXC	3,057,741	19	N4NX	N4NX
Delta DX Assn.	2,896,044	7	—	W5OB
South Jersey RA	2,574,749	17	WA2YVA	WA2YVA
Alamo DX Amigos	2,438,592	22	W5JC	WB5HGS
Central Florida DX Assn.	2,375,988	4	—	—
Buffalo Area DXC	1,941,564	19	WB2ABD	WA2AOG
Southern California CC	1,912,857	3	—	—
Western Carolina ARS	1,734,489	5	—	N4AA
Toronto DX Assn.	1,577,922	4	—	VE3EUP
Old Barney ARC	1,533,657	9	K2TJ	N2CW
Southern Peninsula AR Klub	1,260,198	3	—	—
Amateur Radio Transmitting Soc.	1,232,127	4	N4XM	—
Ohio Valley ARA	1,164,729	9	W8RSW	W8HQK
Neenah-Menasha ARC	1,097,556	4	—	—
North Florida DX Assn.	1,042,152	4	—	W4ZTW
Brightleaf ARC	975,717	11	WA4DAN	WA4NHP
Winnipeg DXC	970,542	7	—	VE4EW
Memphis DX Assn.	950,745	5	—	WA4EAV
Greater Lansing DX Group	902,918	13	W8TJQ	WA8LTX
Blue Grass ARC	893,997	7	—	WA4PAR
Memphis DX Soc.	763,485	4	K5FC	—
Mississippi Valley DX & CC	741,787	11	K0CD	K0CD
Columbus ARA	678,594	6	W8ZCQ	W8ZCQ
Virginia Century Club	664,363	5	—	W4IVU
Meriden ARC	503,412	9	W1KKF	W1KKF
Libertyville & Mundellien ARS	491,253	3	—	—
Charlotte ARC	434,484	5	—	—
Arinc RC	403,686	8	N3OS	W3PWO
Poughkeepsie ARC	395,736	3	—	—
Greater Milwaukee DX Assn.	277,743	3	—	—
Lake Success RC	254,544	6	—	W2SGK
Four Lakes ARC	217,131	8	K9QXY	K9QXY
Greater South Bay ARC	193,920	8	K2TV	K2TV
Motor City RC	129,999	6	—	K8SIA
Overlook Mountain ARC	121,356	3	—	—
Central Illinois DX & CC	75,570	3	—	—
Saline County ARC	75,330	3	—	—
Chicago Radio Traffic Assn.	33,261	4	—	—
Saginaw Valley ARA	20,370	6	WA8ECH	WB8VBC
Larkfield ARC	10,980	3	—	W2GLE

but U.S./VE stations tend to beam JA instead of VK when the bands are open. Heard all states/provinces on 20-15-10, but could not break through the JA pileups to get them. It might be a good idea for the U.S./VE stations to pause to listen for Pacific stations. You never know when a new multiplier will show up from this area. (VK4LX) How about each operator nominating a station that he con-

siders to be "best op"? Might influence all operators to improve their techniques. (ZL1ADI) I think that several stations liked my call sign, because they worked me more than twice on one band. Hi! (DL7OK) I was very happy to help my friends out with a Portugal QSO. (CT1QZ) The timely arrival of the replacement 28-MHz oscillator coil sent by WD4BRE, made possible my 10-meter

Phone Multiplier Leaders

Band Minimum	160	80	40	20	15	10	Band Minimum	160	80	40	20	15	10	Band Minimum	160	80	40	20	15	10	
	5	50	50	80	75	70		5	50	50	80	75	70		5	50	50	80	75	70	
<i>Single Operator</i>																					
W1ZM	11	62	50	112	103	100	WA2AOG	—	7	15	75	71	74	W4DM	—	11	21	65	73	72	
N1GL	6	72	55	101	99	82	W3BGN	—	55	47	92	84	86	W4DR	6	26	50	—	11	73	
K1WB	—	8	33	90	75	78	N3BB	—	32	38	111	90	78	K5UR	—	46	44	88	86	89	
W1NG	—	38	40	67	76	67	N3DA	—	34	28	103	89	84	K5KLA	4	32	26	86	74	83	
W1YN	—	32	36	73	101	75	W3FV	—	27	36	75	84	85	K5NW	—	22	46	71	71	71	
W1OO	4	35	32	84	80	86	W3AP	3	17	41	76	81	72	K5DX	7	30	31	81	76	68	
K1RX	—	44	54	92	84	48	K3NZ	—	25	28	86	83	57	WA6PGB	4	23	36	79	76	81	
W1UR	—	16	54	81	70	80	K3ZA	—	53	39	72	60	68	K6NA	2	35	53	80	67	66	
K2LE/1	—	39	36	102	80	70	K3WOK	—	5	3	81	54	65	N6BV	—	16	36	87	72	60	
K1BW	—	43	43	102	87	83	W3LPL	6	55	53	88	98	82	W7EJ	—	24	30	77	85	69	
K2SD	—	21	24	81	63	64	N3UN	—	38	38	101	89	83	W8LU	—	—	3	12	67	70	
WA2AUB	—	16	18	53	65	73	W3UJ	—	21	21	74	67	70	W8AH	—	—	20	99	—	—	
WB2SJG	—	18	39	81	81	70	LU1BAR/W3	7	20	42	48	59	43	K9HMB	3	31	54	108	110	95	
W2RQ	—	39	34	72	75	69	N3EC	—	16	26	85	50	47	W9ZRX	—	31	65	105	100	92	
N2SS	—	26	25	100	87	95	WA4QM	—	5	7	66	68	73	W9RE	4	33	49	103	89	81	
K2DY	—	46	28	88	56	50	WA4TLI	—	7	4	70	75	82	W9LT	—	31	45	101	69	89	
N2MR	3	24	33	80	69	74	K4XU	—	25	34	74	73	74	KØSVX	—	3	13	63	52	76	
W3HKK/2	—	3	—	89	58	64	N4RV	—	34	48	109	91	98	WØIUB	—	3	26	37	53	74	
							N4RA	2	28	34	79	74	84	VE4XJ	—	7	9	100	32	—	

High Band

K1TO	76	56	74	K3KG	59	114	61	WA7GVM	90												
K1WJ	47	54	74	K3KA	75	74	80	W8FF	94	74	72										
WA1UZH	71	65	77	W3EWL	70	79	70	.W8TA	80	71	68										
WA1TAI	81	73	70	N3KK	72	84	54	WB8JBM	68	75	63										
N2LT	102	91	85	W3YY/4	78	75	64	W9ZA	60	78	85										
N2RM	53	82	74	N4NX	92	73	78	WA9IXF	67	78	60										
N2OO	74	68	74	WA4DWN	80	53	80	WB9TIY	41	78	49										
N2CW	54	63	90	W4PAK	75	78	50	W9OA	94	1	1										
WA2PCF	65	66	71	WA4NHP	77	65	74	W9LF	95	86	77										
K5VNJ/2	83	69	62	N4MM	60	76	79	W9OBF	96	74	78										
W2SUA	86	34	24	W4RW	86	57	37	K9CLO	83	50	39										
WA2BYJ	45	73	80	W5JW	86	74	69	NØAT	44	77	52										
K3ND	90	86	89	K5GL	51	74	74	WB2RLK/VE1	88	94	86										
W3JO	64	71	71	K5BZU	98	71	67	VE3EUP	100	75	72										
W3GRS	84	82	78	W7FP	92																

Low Band

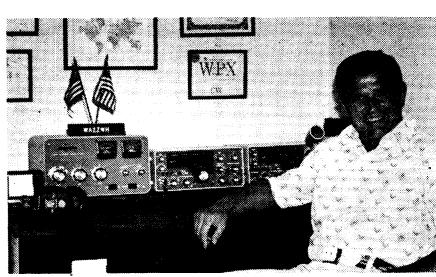
WA1UAD	6	51	60	K5RR	32	58		K9PPY	37	56											
W1FC		84	53	K5JZY	34	53		NØRF	19	64											
W1BB/1	8			K6SE	11			VE3BBN	6	45											
WB2VFT		20	52	K8TR	22	54															
K3ZO	6	65	70	K8WW		56															

Multi-Single

K1XM	42	45	87	80	78	W4NL/3	5	61	57	126	105	91	W6QL	3	21	27	70	50	70	
WA1SQB	4		71	66	83	K3RA	4	50	44	95	76	75	N6TU	2	33	48	79	78	71	
W1ZA	59	57	110	97	92	N3RL	41	50	86	80	89	89	N7DD	35	40	94	80	88	82	
W1RR	32	31	96	76	75	N4KG	34	51	106	92	91	91	WA7IN	1	40	49	89	82	72	
K1MM	36	1	85	75	64	N4BP	6	5	41	40	76	76	N8JW	28	51	107	89	82	82	
WA1SSX	26	38	82	74	76	W4EAL	5	64	105	73	94	94	K9KA	30	33	98	72	75	75	
K1IK	2	49	48	81	81	75	K4VX	10	54	64	115	112	94	K9XA	3	28	61	91	47	
W2YV	8	72	56	111	96	91	N4HB	5	37	44	82	87	83	WBØLLR	4	32	43	89	92	73
K2UA	46		73	80	66	W4PRO	8	39	40	70	78	56	WBØRET	17	34	76	82	58		
K2BU	35	36	80	70	66	N5DX	6	41	64	94	82	81	KØKX	22	60	107	88	71		
N3RD	44	53	103	101	100	W5RU	48	56	99	78	94	94	VE5RG	2	13	43	87	76	62	
N3ED	49	48	94	101	86	K5JA	7	53	61	109	99	96	VE6WQ	20	11	79	87	59		
N3RG	30	45	92	81	82	WA6JUD	1	22	28	76	77	65								

At left, N4KG, Tom was half of the N4KG/WN4KKN multiop effort on phone, and the single-operator section winner on cw in Georgia.

Northern New Jersey's WA2ZWH, right, bids a fond farewell to the power transformer in his SB-220 amplifier. 'ZWH went at it in the low-power category and came out of it with a third-place finish in the high-band phone classification.



CW Multiplier Leaders

Band	160	80	40	20	15	10	Band	160	80	40	20	15	10	Band	160	80	40	20	15	10	
Minimum	10	45	55	80	70	45	Minimum	10	45	55	80	70	45	Minimum	10	45	55	80	70	45	
<i>Single Operator</i>																					
W1ZM	19	55	74	77	74	66	W3BGN	4	41	61	80	66	53	W4YE	39	51	78	64	57		
W1NG		45	58	82	71	51	W3AP	8	34	62	84	71	47	N4DW	28	35	77	75	49		
K1ZZ	13	40	43	67	52	52	K3II		42	61	74	64	41	W4KFC	33	36	67	57	45		
W1ZA		57	63	89	75	70	W3FV		31	66	74	63	39	WB4BVY	23	43	74	63	56		
K1NA	11	48	66	87	80	57	N3NA		38	49	80	55	39	KØCMF/4	20	30	61	60	48		
W1DA		48	52	75	80	59	W3OV		31	37	69	49	48	W4DR	12	26		45	43		
W1YN		36	59	76	82	33	N3BB		17	40	74	70	35	K5UR	39	49	79	71	63		
W1LK		35	55	73	74	53	W3NZ	5	39	59	68	55	42	N5TP	3	25	57	78	72	66	
W1KM		27	77	67	59	29	W3GK		19	32	61	63	45	K5NW	20	59	66	60	56		
W1HZU		22	56	71	63	6	W3GRS		12	26	66	65	51	K5LP	11	19	50	43	47		
W1OO	11	42	54	77	76	58	K3RA	5	46	55	79	63	53	K5ABV	1	31	53	57	45	48	
K1OX	3	45	63	78	72	64	W3LPL	13	53	77	94	82	74	N6RO	3	28	73	71	72	45	
K1RX		47	71	71	67	31	N3CW		48	75	73	67	50	N7XX	6	21	56	71	51	24	
K2LE/1		44	61	83	68	52	K3NA	7	34	56	80	66	50	N7NG	21	59	71	58	34		
K1BW		47	61	86	60	33	K3SA		15	54	82	71	65	K8GL	32	44	73	58	46		
W2YV	14	42	50	75	61	53	W3AZ		9	42	64	68	47	N8ET	18	47	74	70	53		
N2NT	1	45	57	82	73	58	N3RL		27	44	62	67	45	W8RSW	11	56	70	72	47		
W2AEE		47	62	76	68	46	N4KG		50	62	81	79	71	W8AH		57	88				
K2PE		39	61	76	65	14	N4HI		21	39	61	70	48	K9DX	6	50	74	93	77	46	
N2LT	6	50	75	81	71	59	N4XM		31	50	70	61	52	K9BGL	5	23	50	64	69	53	
WB2FIT		43	65	91	77	51	N4AA		32	44	62	55	50	K9KM	29	52	82	67	40		
N2WT		30	52	84	69	41	N4WX		27	54	77	61	54	N9MM	49	68	79	72	65		
W2REH	12	53	60	91	85	55	N4WW	11	61	73	76	70	70	N9NS	31	49	70	68	46		
K2FL		36	52	77	75	54	K4II	2	24	34	56	38	47	NØGA	21	39	56	52	48		
N2MR	4	20	43	75	70	50	K4CL		29	31	68	50	49	WØUJ	17	27	47	39	45		
W2PAU		32	35	50	42	50	K4XU		34	58	87	74	69	WØIUB	9	45	44	54	51		
K2VV		40	60	72	67	42	W4XJ	2	40	58	72	65	63	WØHP	1	31	66	80	76	55	
N2AU		31	56	74	71	44	N4TN		13	42	63	64	50	VE4XJ	10	14	83	43	6		
W3RJ		63	75	113	93	69	N4RV		40	51	72	75	63								

High Band

K1RM		48	65	51	N4NX				81	59	63	W5AQ				52	59	46			
K1DG		94	79	50	N4SV				50	56	47	W5MYA				71	76	68			
W1PH		82	75	45	N4YM				69	27	49	W5FO				55	54	51			
K1FWE		77	64	53	WB4TDH				72	66	57	W5JC				88	62	35			
N1GL		58	76	47	W4BAA				62	52	47	W5GO				51	63	52			
K2OB		81			W4NQI				53	49	45	N6CW				83	73	50			
W2WD		69	64	57	WA4OML				30	88		N8JW				77	76	50			
N2OO		107	79	48	N4UW				39	57	48	WA9PBK				85	67	29			
W3JO		68	63	55	W4HBK				78	72	48	W9LT				79	70	50			
K3ND		87	73	44	N4MM				73	70	50	K9DAF				63	65	50			
W3GRF		77	72	63	K5KLA				71	64	64	KØMM				65	63	47			
W3EWL		67	61	48	WA5NUK				70	53	46	WØUO				74	65	52			
N3KK		81	65	38																	

Low Band

WA1UAC		31	55		K3ZO	3	67	83				W8LRL	17	1								
W1PL	9	49	67		N4UM	13	63	75				WA9JCO	32	72								
K1VR		34	59		WA4MFS		29	58				N9TI	28	56								
W1BB/1	17				W4UQ		50	46				W9SFR	13	70								
W1UN		40	55		N5DX	5	41	67				K9JF	49	68								
K1TZQ		34	58		W5KLB			66				KØKX	1	13	67							
W2FVS		46	43		N6BT	3	22	76				NØRF	34	69								
WA2MBM		2	60		K7UR		26	72														

Multi-Single

K1TO		50	62	89	70	56	N3ED		59	62	90	79	54	W5AC		29	61	82	71	59	
K1IU		40	62	89	79	58	N3RG		35	55	93	77	44	N6OP	4	26	64	73	70	37	
WB2SGJ		38	59	80	83	59	W4NL/3	12	52	70	91	81	59	N6IG	2	20	56	65	62	35	
N2MM		44	54	79	71	36	N4OL			62	60	48	K6RR	1	23	49	65	70	36		
K2UA		51	69	62	34	K4VX	4	54	78	91	83	68	K6DC		18	59	72	55	31		
W3NX		17	41	77	73	43	N4RA	8	38	51	72	68	63	K8NZ	47	60	76	67	41		
N3RD		58	83	88	86	66	K5JA		48	68	63	48		WB8JBM	31	56	65	57	51		
N3AD		48	73	82	76	46															

Multi-Multi

W4BVV	17	80	95	119	105	86	W3MM		70	74	113	93	74	W2GD	12	40	64	76	76	58	
W3AU	14	67	91	123	96	78	KØRF	9	49	75	101	90	59	K4CG		17	39	100	76	51	
K5RC	8	61	89	113	99	82	N3RS		59	85	104	91	59	N3LR	33	57	76	70	40		
K3WW	18	78	92	118	89	76	K8LX	6	57	85	111	88	58	N5TV		19	27	57	56	47	
W2PV	16	72	93	115	99	80	W3GM		68</												

**One-Weekend DXpeditions
(All Are Certificate Winners)**

Phone	CW
CE3ZM (K1MM)	GD5CAA (K3RV)
FG0AYO (W2KN)	EP2EC (K5MM)
FG0GEX (K7GEX)	EP2LA
G5CFJ (K6PU)	KG6SW (K7JA)
GU3HFN (K5MM)	K7SS/KH6
K4II/KH6	WA2CMX/KP4
K7SS/KH6	JA7YOE (K7SS)
PJ8CO (K1CO, W1UA, K2WR)	PJ9AD (K1VR)
PJ9JT (W1BIH)	PJ9JT (W1BIH)
VP2LEU (K6SVL)	ZD8HR (N6HR)
VP2MT (N8BB, W8UVZ, WB8LDH, WB8OFG, WD8BYW)	ZF2AI (W0CW)
VP2SZ (WB8JEY)	ZF2AM (W8LUI)
ZB2G (K2FJ)	W6NV/3D6
ZB2DZ (K4YT)	W9WGQ/6Y5
ZF2AI (W0CW)	
ZF2AR (W9ABA)	
VE3EEW/ZK1	
W0UO/6Y5 (+ WA9FXJ, N0BG, N0NO, WA0RBW)	
9K2DR (K1VR)	

Low-Power Champs

Phone	CW		
WB2SJG	929,424	N4HI	713,132
WB7BNP	703,824*	K5ABV	533,685
K0LUZ	540,765*	K2MFY	520,059
N3KK	467,460	N3KK	506,736*
W0WP	342,000*	W0UC	473,499
W5YZ	326,652	K3KO	413,457
W0UC	313,560	WB2ABD	347,931
K2GXT	291,564	W2NJ	337,824
N2GC	259,875*	N2GC	280,245
WA4RIJ/8	246,888*	W3ARK	271,188

*High band only

Logs Received

W/VE	DX	Check	Total
1976	1368	872	165
1977	1631	1123	280
1978	1842	1340	260

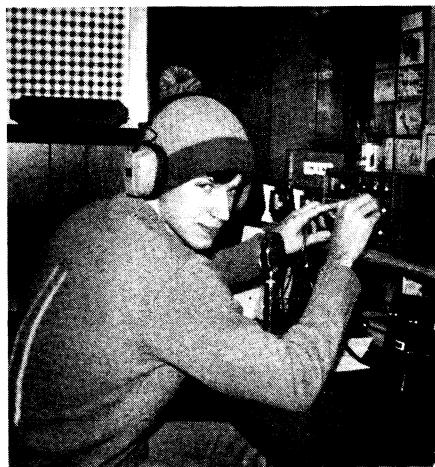


N0BG, N0NO and WA0RBW of the W0UO/6Y5 multi-single operation, that turned in a five million-plus point score in the hotly contested North America multi-single phone competition.

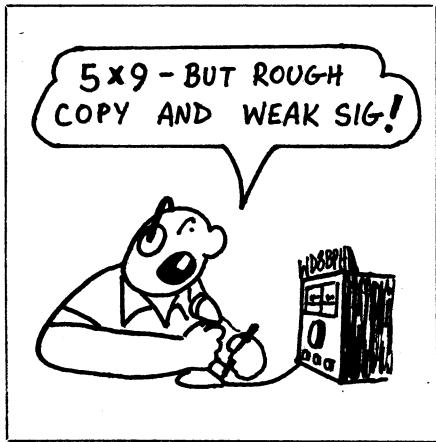
appearance. (EL3A) Why did K1VR, operating 9K2DR, torture us with 59-222? (N1EE/K1MM) The ARRL 'Test was the culmination of a three-week stay in the Cook Islands on a DX-vacation. It boggles the mind to find oneself on the receiving end of a pileup and I hope that we satisfied everyone's need for ZK1 in the contest. Now to get through the mass of QSLs that have been flowing in ever since. It's rather difficult to sit in the shack, when the outside temp is 85 degrees and the water temp is 75 degrees, so we did as much as *ham-only* possible. (VE3EEW/ZK1 and VE3HFS/ZK1) One of the main stimulants over here is the competition with G3MXJ. Every year he says that I am getting too old and every year I try to prove him wrong. Based on our claimed scores for this year's contest, he is getting too close for comfort. (G3FXB) Why not consider single-band categories, 160-10 meters? (N0RF) Line noise hindered our operation during a great European opening on 20 meters. S9. noise left us in a cloud of smoke behind N6OP and K6XV

. . . Perhaps we can go to solar power and bomb the power pole! (N6IG) My new AA6 prefix created some confusion as to whether I was DX or stateside (AA6EE) I did find that there was an increase in the number of U.S. stations sending "CQ Test" that generally tended to clutter up the bands with what seemed to accomplish little in the way of QSOs. . . . I guess that's the only thing to do after you have worked everybody that you can hear. (W0LP) Ten meters was hopping. The biggest surprise was working JAs and a UA0 on that band. Great conditions! (K4HWG/WB4NFS) Stations that don't frequently sign their call drive me up the wall. (VE4XJ) I was receiving stations on the East Coast on both Sunday mornings, but they all had their antennas pointed toward Europe . . . so you guys that need-

ed Alaska and did not listen this way just missed out. (KL7IXZ) Stop using high band/low band. Single band is more feasible. Some overseas QTHs just aren't situated to work 160-80 or 15-10 except for a very few minutes/hours and it's a waste of their time as they have no way to compete with the rest of the world. Give them an opportunity too. (N7DC/YV5) I burned out the xformer and the 6146s in my rig. Motto: Never use too big a fuse in the primary! (N7CT) I still hate the boys with the *big* kilowatts, who haven't really heard you, but listen to those who are calling, sit on top of you and call, blotting out all else. Unfortunately, the best way to get rid of them is to work them, otherwise, they will not let you alone. Might is, unfortunately, right. (ZL1AFW) Operating both cw and phone, I dished out some 3800 QSOs so no one can complain anymore of a lack of activity from Vermont. I am simply *swamped* by QSL requests for VT by DX stations and still answering cards from the '77 DX Contest. The last load of cards received from the bureau weighed seven lbs. Be patient. . . . (K2LE/1) I've been in every one since 1939. In 1921, DX with my Ford spark coil was 76 miles. (W5RUH) Best thrill was hearing a UL7 call us on 10 m at 3 A.M. local time. (VE6WQ) Unfortunately, too many people have the latest toy, a speech processor, which they don't know how to use. (Some of them) have about as much need for one as a centipede has for another leg. (PJ9KW) Best ops: K0AX/DU2, HG5A, LU8DQ, all UAs and JAs. (K8GL) Missed the second weekend while in Taiwan — wish I could operate from there. (WA7YHP) Next year, I will mount a DXpedition to Volland as that part of the country seems not to be inhabited. (W1DKB/OA4BZ) More weight should be given to multipliers — to make it more of a DX test again. I refuse



WB0KWI, one of the ops at WB0RET, the top multi-single operation on phone in Kansas.



Multi-Multi Madness

	<i>Band</i>	<i>Primary Operator</i>	<i>Total QSOs/Multipliers</i>	<i>First Weekend QSOs/Multipliers</i>
W2PV Phone M-M	160	WB2GXW	15/13	11/10
	80	K1XX	338/89	165/69
	40	W3AZD	252/80	152/59
	20	K1AR	2212/159	1267/122
	15	K1DG	2671/140	1394/111
	10	K2XA	1360/117 (12.3M points)	532/85 (4.8M points)
W4BVV CW M-M	160	WA3AMH	33/17	7/5
	80	W3ZZ/K1JX	432/80	301/61
	40	K3NPV	1173/95	779/87
	20	K3KU	1401/119	863/93
	15	W3IUU	1438/105	841/87
	10	W3ZZ/K1JX	495/86 (7.5M points)	308/68 (3.7M points)

to sit there and run JAs — that's moron's work! (W6PM) Only took three hours and 40 minutes for WAS on 10 meters! (VP2LEU/K6SVL) Last year operating from home. (WB2SJG) Our school was locked, so we parked a car close to the shack and operated in the car. The result is not so good. (JA7YAF)

Feedback

In addition to the adjusted scores and club competition results listed on page 36 of June 1978 *QST*, the following mistakes crept into the listings: CW — W7JFG (now N7NG) was the Rocky Mountain Division leader. K7VPF was the operator of W7RM. HG5A was the top multi-single station in Europe. I3GNQ was the high-band winner, IK2FGP the all-band winner. SM3GSK's corrected score is 201,708-862-78-B, making SM3EVR the high-band winner. Central Virginia CC winners were W4XR on cw and W4QCW (WA8ZDT, op) on phone.

Phone — W2GXD's score should have been listed as 1,836,987-1817-337-C-87.

DX Continental Champs

<i>Phone</i>			<i>CW</i>	
<i>Single Operator</i>	<i>Multioperator</i>	<i>Continent</i>	<i>Single Operator</i>	<i>Multioperator</i>
EL2T	—	Africa	EL2T	—
JA1KSO	JA9YBA (M-M) JA3YKC (M-S)	Asia	JR1JFO	JA7YAA (M-M) JA3YKC (M-S)
OZ5KF	I0RDJ (M-S) SK6JA (M-M)	Europe	DK3GI	DK0TU (M-S)
FP8DX	PJ8CO (M-S)	North America	KP4EAJ	KG4OO (M-S)
KH6IJ	KH6DL (M-S)	Oceania	KH6IJ	—
HC1BU*	—	South America	PJ2VDF	CP1AT (M-S)

Calls in italics are repeaters from 1976.

*High band only.

WA2PCF was the Old Barney ARC club winner. W3BWZ's unlisted numbers were 2,081,583-1739-399-C-96. Add 100 QSOs to N5DX's score for 977,815-1105-301-C-96. W9CL was the Central Division leader with 2,233,032-2242-332-C-96. W4SME was in Northern Florida. VE7BGK should have been listed at 233,730-735-106-C. KP4EPN (K4WVT, op) was a one-weekend DXpedition. IK4BFY (+I4s

USC VEQ) (M-S) had 186,960-820-76-B-18. UK5IAZ (M-S) should have been at 154,326-578-89-B. And lastly, K9KDI/6Y5 was a one-weekend DXpedition with a score of 660,552-1619-136-A-10. Apologies for the errors.

Disqualifications

Phone: W1CF (K1OME, op), W7ISX
(multiop), KH6DD. CW: None.

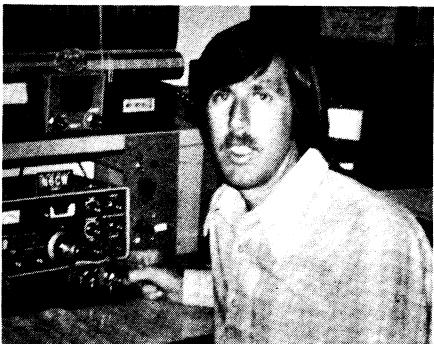
**PHONE
DX**

Single Operator

Singa Spec...-	G4BWP	810-105-1343-175-C-03	VP5DF	36,-636- 172- 71-B- 5	ZS6PN	852,-144-164-181-B-32	JAHVBJ	26,040- 201- 147- 45-B-20		
	G5CFJ(K6PU,opr)		4650- 62- 25-A	ZF2AI(WC9)	1,122,-912-1671-224-A-17	ZS6ABO	728,622-2358-103-B-39	JHAEOX	20,040- 171- 172- 73- 39	
Africa				ZF2AR(W9ABA,opr)	90,-900- 300-101-A- 8	ZS6WW	113,490- 390- 97-A-12	JAAAT	10,727- 122- 112- 52-B	
C5ABC	50,274- 266- 63-A- 7	HB9BVA 1,529,910-2865-178-C-75	13MAU	2,963,448-4168-237-C-70	Oceania	3B8CV	737,793-1673-147-B-36	J21ITH	16,074- 154- 154- 38-A	
EL2T	4,402,125-5375-273-C-62	HB9LP 1,135,530-242-155-B-56	14LX	2,307,015-3715-207-B-48	KG6JHJ	1,523,280-2308-220-C-28	Z54AA	24,012- 348- 69-B	JF1TBK	13,260- 130- 34-A-21
7X4MD	785,565-1587-165-B-	LA6HL 2,165,-436-396-182-B-62						JADXX	11,772- 109- 109- 36-B-15	
Asia		OE5CWL 846,600-1660-170-B	KH6JL 5,702,-052-676-281-C-74	Asia	5Z4AA	11,361- 36- 116- 32-A-18	JF3JMO	11,361- 36- 116- 32-A-18		
		KH6WF 3,364,-296-4264-263-B-65	CR9AJ	5658- 82- 23-A			JUICRV	7,738- 107- 23-A- 9		
JAIKSO	2,067,048-3022-228-B	OK1AGN 1,138,-686-2194-173-B	VK4VU	714,-714-1309-182-B-34	HM2JN	4662- 74- 21-C	JH9HQP	6237- 77- 27-A		
JEIISSE	1,548,420-2620-197-B-80	ON4XG 224,-910- 630-119-B-24	VK3AKM	193,-649- 542-119-B-30	JAIHG	1,054,284-2156-163-B-52	JAVBDN	6174- 98- 21-A- 8		
JATDME	432,450- 930-155-C-01	ON6AH 29,-964- 227- 44-B	VK3AQI	36,-960- 160- 77-B-10	JAIPCY	564,303-133-137-B-52	JH3FHR	5616- 78- 24-A- 7		
JAIELYI	411,-411-100-155-C-24	ZQ5KF 3,316,-776-499-226-B	ZL1AFW	553,905-1119-165-A-34	JAM7AKM	534,798-1221-146-C-80	JH1MTR	4731- 83- 19-B- 6		
JAIPIJK	31,-620-100-100-155-C-24	025EV 879,-264-1704-172-B-48	ZL1AGO	350,424- 744-157-B	JAG2XQ	525,-864-1234-142-C-37	JH1AIX	3670- 23- 19-A- 7		
JAIKCD	155,-184- 488-106-A-46	ZQ5VT 1320- 36- 13-A	ZL1AGO		JAD7DAH	497,898-1194-139-C	JH1RDN	23,20- 47- 20-C- 3		
JASBW	120,900- 403-100-C	PA0YNN 8448- 88- 32-B			JAIFO	2622- 46- 19-A	JAIFO	2622- 46- 19-A		
JACCNL	88,476,-403-100-C				JH1ACQ	479,415-1031-155-C	JAIABV	2550- 50- 17-B- 5		
JIRBRV	82,308- 361- 78-B-20	SM2DMU 1,514,-976-2936-172-B-57	CE3ZM(K1MM,opr)	1,460,-592-2898-168-B-20	JAT7PA	427,-592-1039-136-B-34	JG1RJB	2208- 32- 23-A- 5		
JIRIGSE	51,224- 225- 76-B-18	SM7BUR 1638- 26- 21-B	CP1LAT	383,-040- 840-152-B-12	JAT7PK	268,-656- 772-1116-C-29	JF3LON	1722- 41- 14-A- 5		
JAA4BKL	44,880- 287- 76-B-24	SP3DOI 101,-637- 491- 69-B			JAZ4YH	266,647- 679-131-23	JAAUZY	1596- 38- 14-A- 9		
JAF2BEM	200,-210- 360- 50-A	LU2A 2,450,-880-3404-240-C	JAT7BS	202,620- 614-110-C-35	JAB7KS	11,70- 30- 13-B- 2	JAKXDD	11,70- 30- 13-B- 2		
JAT7JNF1	18,408- 118- 52-A	YU1GMN(YU1QEF,opr)	JH6NAC	161,-250- 625- 86-B-15	JAT7CA	31,-11- 31- 11-B- 4	JARJW	31,-11- 31- 11-B- 4		
JAT7FFN1	16,128- 96- 56-A-12	681,-681-1589-143-C-30	LU2A	150,450-1003- 50-B-15	JAX3XG	648- 24- 9-A- 4	JASWJA	648- 24- 9-A- 4		
KA6DX(N1DX,opr)		ZB2DZ(K4YT,opr)	PJ9JT(W1BIH,opr)	103,-335- 449- 99-C-30	JAT3XG	101,-503- 50-B-15	JAIJXU	540- 24- 9-A- 4		
JAJ9BK	12,075- 115- 35-C- 7	625,-860-1220-171-B	PJ9KW(K7NE,opr)	2,583,-774-3634-237-C-26	JAT7PN	102,688- 31- 82-B-29	JAT7HN	459- 17- 9-A- 3		
JAJ1AJC	6000- 80- 25-B-10			1,133,-946-1909-198-C-	JF1ISEK	91,666- 31- 82-B-29	JAT7HN	459- 17- 9-A- 3		
9K2DR(K1VR,opr)	2415- 35- 23-B	North America			JF1ISEK	102,688- 31- 82-B-29	JG1RDV	459- 17- 9-B- 5		
					JAI1RQ	112,-147- 299- 86-B-19	JH4UDG	360- 20- 6-A		
					JJ1HOF	58,-374- 537- 54-B	JH2WDT	357- 17- 7-A		
					JJJ1PL	52,206- 226- 77-24	JE2JW	264- 22- 7-A		
					JH3FWZ	51,957- 251- 69-B-26	JG3WMA	22,-16- 7-A		
					JAA9VS	51,516- 212- 81-B	JABVVO	54- 6- 3-A- 1		
					JAD6JL	49,701- 263- 61-B-21	JAD3MFE	45- 5- 3-A- 1		
					JAX3XRC	46,980- 288- 45-B-12	JAEPL	36- 4- 3-A- 1		
					JAD4QY	44,500- 220- 65-B-15	JK1LRLH	30- 5- 2-B- 1		
Europe	38,976- 224- 58-B-12	FG9AYO(W2KN,opr)	N7DC/YV5	1,408,-008-2023-232-B-33	JAD4QX	39,000- 200- 65-B	JH1OEL	12- 2- 2-B- 3		
CT1TM	137,940- 418-110-C-16	FP8DX 2,860,-260-3860-247-B-62	H18CDS	2,517,000-3356-250-C-22						

JT1AN	1254- 38- 11-B	OH7TO	612- 17- 12-B	VK8VO	355,416-1004-118-C-25	HA3KNA(Multipop)	W1YN	957,312-1108-285-C-51
UW8IX	709,988-1621-146-B	OH1JW	330- 11- 10-B	VK4AK	171,765-1041- 55-B	HAKKKN(HA55W KN,ops)	W1VW	108,360- 301-120-C-13
UA9CBO	201,600- 82- 84-B	OK1TA	805,482-1839-146-B-28	VK3OT	144,144- 858- 56-B	W1XK	49,240- 240-110-B-	
UA9FU	160,506- 72- 74-B	OK2QX	250,470- 846- 89-C	VK2XT	3363- 59- 19-B	KI2Z	44,064- 202- 72-C-5	
UA9SAU	101,244- 649- 52-B	OK1AWZ/P	234,927- 693-113-B- 8	VK3NHL	2652- 52- 17-A	N1JW	21,600- 90- 80-B-5	
UA9QS	29,469- 209- 47-B	OK1DWA/P	496,488-1208-137-B-22	VY0BACT	44,496- 217- 72-B-24	KIDD	21,018- 113- 62-A-10	
UA9CCW	15,048- 135- 38-A	OK1DWA/P	975- 25- 13-A	VY0BACH	16,215- 117- 47-B-31	W1FTX	14,652- 74- 62-C-9	
UA9ABA	11,018- 108- 36-B	OK1DWA/P	218,766- 722-101-B	ZL3BK	353,506-1078-109-B-30	W1XX	1638- 26- 21-A-1	
UA9ABA	8,670- 85- 34-B	OK1DWA/P	612- 17- 12-B	ZL4IJ	5220- 60- 29-A	HB9AUS(+HB9NH)		
UD6DER	432- 18- 8-A	OK1IAVE	69,191- 361- 51-B		1,757,640-3020-194-C-75	Eastern Massachusetts		
UD6DER	75,582- 323- 78-B	OK1IAVE	58,275- 259- 75-A-24			I0RDJ(+16FLD,I95,IJ,JX,MGM)		
UL7QF	17,550- 150- 39-B	OK3TAB	46,968- 206- 76-A	N4VV/CE3	4,979,712-6484-256-B-96	W1YN	2,009,463-2113-317-C-76	
UL7NW	8,728- 91- 36-A	OK1IAHV	29,568- 234- 44-B	WA2WYR/CX	1,471,884-2836-173-B	W1FJ	396,060- 644-205-C-30	
UL7NAC	3722- 40- 23-B	OK1IAVI	27,219- 211- 43-B		1,316,715-2141-205-B-89	W1DYH	389,241- 709-183-C-57	
Europe		OK1IDKS	26,208- 168- 52-A			NIAB	301,896- 599-168-B-	
CT1QZ	1,029,600-2145-160-C-24	OK1KFO	9471- 77- 41-A			W1RVR	246,000- 400-139-C-42	
CT1TY	59,000-168-130-C-24	OK1KFO	9728- 82- 31-A			W1RQW	166,800- 400-139-C	
CT1DF	48,049-179-139-B	OK2PEQ	4500- 60- 25-A			W1KRM	48,804- 166- 98-C-20	
CT1LV	144,759- 661- 73-B-39	OK1JVT	2499- 49- 17-A			W1HX	31,773- 119- 89-C-24	
DJ3HJ	1,309,170-2890-151-B	OK2ABU	2442- 37- 22-A					
DL7OK	92,000-168-130-B-29	OK2BGN	2052- 36- 19-A	LU1HE	600,642-1362-147-B-82	Maine		
DL5TH	55,112-1696-149-B	OK1KJ	897- 92- 31-A-3	OA4BZ	1,814,988-3689-164-C-74	W1OQ	1,461,834-1518-321-C-63	
DK7ZT	567,405-1401-135-C-31	OK1KJ	432- 5- 1-A			W1SD	58,968- 182-108-C	
DL2HQ	152,487- 459-111-B	OK5KP	445,120-122-124-B			New Hampshire		
DL7XR	100,386- 338- 99-B	OK8HF	61,488- 244- 84-B	PT7DCP	370,305-1055-117-B-20	K1RX	1,727,208-1788-322-C-75	
DL3RA	67,697- 291- 89-B	OK2ZBM	323,998-468- 98-B	PT12DK	348,831-1029-113-B-20	W1UR	1,489,047-1649-301-C	
DL2DR	58,083- 289- 84-B	OK2ZBM	138,998-468- 98-B	PT28GO	143,910- 615- 78-C-12	W1LQQ	157,410- 330-159-C-35	
DF2KD	41,814- 186- 59-B-18	OK1ZBAN	17,250- 115- 50-A	PT2TF	70,713- 291- 81-C-23			
DJ7XB	34,515- 195- 59-B-10	OK1ZO	10,500- 140- 25-A	PT1PKU/8	8004- 26- 22-B	Rhode Island		
DL1OY	15,480- 120- 43-B	OK1ZAP	7254- 93- 26-A	PT1PKU/8	3672- 51- 24-B	K1HMO	549,120- 832-220-C-50	
DK5GX	10,530- 130- 27-A	OK2BT	7224- 86- 28-A-14	PT1YVT	3- 1- 1-B	WA1TFF	225,000- 600-125-B-30	
DK8JK	10,290- 98- 35-B	OK2BT	1887- 37- 17-A	VV5EDD	719,795-1558-154-A	K1BV	56,610- 255- 74-C-16	
DU7Z	10,000- 62- 28-B	OK2BT	561- 17- 11-B-8	VV5FOI	308,222- 812-127-B	NIRI	4830- 46- 35-B	
DA2JA	4836- 262- 5	OK2ZBN	5- 5- 5-A-1	VV5DDY	108,540- 402- 90-C	Vermont		
DF6QF	4752- 66- 24-B				K2LE/1	1,923,726-1967-326-C-65		
DL8GZ	2820- 47- 20-C	PAT2MTS	261,954- 891- 98-B			Western Massachusetts		
DK4HD	1734- 34- 17-A	PA8AY	82,290- 422- 65-A-15			K1BW	2,592,636-2414-358-C-71	
DA1NC	431- 12- 12-B-2	PA8LOU	50,600- 500- 160-A			W1GD	65,208- 209-104-C-26	
DK8AX	270- 10- 9-B-1	PA8MSM	31,785- 163- 65-A-23					
DM2CDL	114,957- 727- 53-B	PA0TUK	11,253- 121- 31-A					
DM4PDR	62,370- 338- 66-B	PA0KDM	7326- 74- 33-B					
DM3WMJ	49,988- 275- 74-A	PA0VST	462- 14- 11-B-8					
DM3VUH	24,255- 177- 49-B	SM3EVR	1,247,196-2809-148-B					
DT3BE	21,684- 140- 52-A	SM4DQE	572,520-1468-130-B					
DT3RMD	18,612- 141- 44-B	SM5CAK	383,040-1140-112-B					
DM4ORA	16,992- 118- 48-B	SM5AQD	323,998-915-120-B					
DM2ARA	14,355- 145- 33-B	SM7DMN	119,856- 454- 88-B					
DM4BPK	11,340- 119- 35-B	SM6ADW	116,025- 425- 91-B-10					
DM5VNU	6,600- 36- 35-B	SM9BDS	102,828- 418- 82-B-11					
DM4VCO	4425- 79- 25	SM7HCW	85,779- 353- 81-B					
DM3WB	3600- 60- 20-A	SK4DM(SM4C4R,Op)	53- 50- 255- 67-B					
DM5XIG	3456- 48- 24-B	SM4HPL	3380- 50- 170- 65-B					
DM4VZA	3360- 40- 28-B	SM2HZQ	30,267- 171- 45-B					
DM7TNA	31,400- 49- 23-A	SM3DXV	11,808- 123- 31-A					
DM5UVL	2760- 36- 23-B	SM5CS	9282- 91- 34-B					
DM4OLG	972- 36- 9-A	SM5DY	7047- 87- 27-A					
DM3WYJ	792- 24- 12-A	SM7TBV	4896- 51- 32-B					
DM5FBN(DM3HN,opr)	621- 23- 9-B	SM7BTB	4316- 41- 31-B					
DT2AJH	528- 16- 11-B	SM7HSP	3380- 50- 170- 65-B					
DM2FLN	180- 10- 6-A	SM5EMR	2970- 45- 22-B					
EA4QB	1,018,248-2204-154-B-30	SM2PCK	25,413- 87- 45-B					
EA5AX	296,010- 759-130-C	SM6HIO	1581- 31- 17-B					
EA3SA	184,680- 540-114-C-10	SM6HIO	1386- 33- 14-B					
EA2IA	15,846- 139- 38-B-1	SM6GGK	1387- 33- 14-B					
EA6EU	299,628- 812-123-B-49	SM5AHK	714- 17- 14-A					
E12BB	1,198,449-2611-153-A-32	SM7AAQ	90- 6- 5-B-1					
F2RO	144,348- 523- 92-A	SP9PT	149,142- 459-105-B-19					
F2ZG	110,000- 275- 82-B	SP9PEZ	53,580- 85- 76-B					
F6LFN	56,623- 245- 75-B-14	SP9CTW	25,413- 87- 45-B					
F6VBV	58,893- 293- 67-B-27	SP9BDQ	24,450- 163- 50-B					
F6CLM	39,195- 195- 67-B-24	SP1GHW	5751- 71- 27-B					
F6DRP	8370- 90- 31-A	SP9FLY	3795- 55- 23-A					
F8ZF	6960- 145- 16-B-3	TF3CW	21,168- 126- 56-A-8					
F8WE	4158- 63- 22-A	UV3CE	598,944-1468-136-B					
F6DMV	2508- 44- 19-B-7	OK3PAZ	188,277- 647- 97-B					
F6DLM	2280- 40- 19-A-3	OK1IMU	106,590- 418- 85-B					
F5RC	648- 18- 12-A-2	OK1CQ	76,650- 350- 73-B					
F6CMO	513- 19- 9-A	OK6JAD	58,212- 396- 49-B					
F6BRK	210- 10- 7-A	OK3TRP	10,141- 300- 49-B					
G3ZQW	2,516,976-4994-168-B	OK3AEZ	16,560- 316- 69-B					
G4CLK	462,000-1055-146-A-56	OK3DF	12,600- 105- 40-B					
G4CVZ	412,125-1099-125-B-45	OK1UIA	4446- 57- 26-B					
G3CAZ	221,610- 685-112-B-34	OK6ADC	4224- 44- 32-A					
G3YBH	123,232- 463- 88-B	OK3LCU	2025- 45- 15-A					
G5CP	64,500- 500- 47-B-24	OK1TEN	1014- 26- 13-A					
G5CES(K1FN,opr)	63,900- 300- 71-A	OK2TRP	16,200- 236- 65-A					
G3NT	33,075- 175- 63-B-20	OK2EC	46,020- 236- 65-A					
G4FFY	28,710- 165- 58-B-14	OK2AFA	29,728- 362- 73-B					
G14BBV	214,380- 794- 90-A-18	OK2AFA	27,084- 244- 37-A					
GU3HFN(K5MM,opr)	29,682- 194- 51-A-10	UT5OV	6131- 73- 28-B					
GW4BNJ	136,500- 650- 70-B-12	OK5HDX	4995- 75- 22-B					
HAI2ZD	79,704- 324- 82-A-37	OK5HBY	231- 18- 5-A					
HA0KLU(HA0MM,opr)	101,672- 96- 44-B-20	OK5BAJ	120- 8- 4-A					
HA6KNP(HA6NN,opr)	2550- 50- 17-B	UP2PAQ	144,918- 498- 97-B*					
HAN6NP	1512- 42- 12-B-4	UP2PAQ	481,950-1275-126-B					
HB9T	426,195-1155-123-B-25	UR2DU	1050- 42- 16-A					
HB9DX	376,530-1141-110-B	VE06KEI(Y06AWR,opr)	299,025-1329- 75-B					
HB9BLQ	20,304- 144- 42-B	Y06KEI(Y06AWR,opr)	299,025-1329- 75-B					
HB9AYZ	4617- 57- 27-B-3	Y1UNYP	1,248,150-2650-157-C-60					
I8MPO	1,807,107-3607-167-B	Y1UNYP	1,248,150-2650-157-C-60					
I6NOA	1,418,670-2865-165-B-50	Y1UOFT	923,400-2052-150-C					
I6NOA	1,100,000-1000-155-B-54	Y1UOFT	2898- 46- 21-B-4					
I5SDG	576,350-1670-135-B	Y1UOFT	2898- 46- 21-B-4					
I5VXG	523,056-1282-136-B-30	FGGEX(K7GEK,opr)	553,020-1418-130-A-30					
I0AMU	433,020-1031-140-B-18	FGGEX(K7GEK,opr)	553,020-1418-130-A-30					
I8ZLW	372,294- 962-129-B-19	Y1UOFT	553,020-1418-130-A-30					
I2MQP	133,227- 393-113-B-13	OX3ZM	342,720- 960- 960-119-A-35					
I2LNV	3108- 37- 28-B-4	Y1UOFT	3108- 37- 28-B-4					
I50MVE	50,853- 253- 67-B-8	Y1UOSRH	571,428-1443-132-C					
LA1NG	282,762- 683-138-B	KL7FJ	997,407-2173-153-B-30					
LA4HH	56,376- 261- 72-B	KL7FJ	738,738-1595-159-B-46					
LA2IJ	51,504- 232- 73-B	KL7ITG	429,723-1077-133-A-60					
LA9ZV	27,720- 140- 66-A- 6	OK4PKY	936- 126- 12-B-2					
LA8E	18,126- 114- 53-A- 6	OK4PKY	936- 126- 12-B-2					
LA44Q	6,671- 35- 31-B	OK4PKY	936- 126- 12-B-2					
LA9CQ	2,337- 38- 28-B- 3	OK4PKY	936- 126- 12-B-2					
LA5KK	1800- 40- 15-B- 3	VP2LEU(K65VL,opr)	1,605,744-3186-168-C-29					
LA4EU	672- 28- 8-B	VP2LEU(K65VL,opr)	1,605,744-3186-168-C-29					
LZ1WJ	9216- 128- 24-A	VE3PE/VP9	6000- 100- 20-B- 9					
OH6JW	1,067,904-2472-144-C	6F8J(XE)	1,794,273-3539-169-B-47					
OH1GIC	889,593-2207-133-C	6F8J(XE)	1,794,273-3539-169-B-47					
OJ1WW	1,011,900-2207-133-C	ZF1AK						

W3GRF	384,462- 689-186-C-35	Santa Barbara	Iowa	W2GLE	8436- 74- 3B- 6	WB4PRU	96,465- 295-109-C-34
LUIBAR/W3	354,123- 539-139-C-20	W7CB/6	345,582- 789-146-C-27	WB4EJ	488,265- 757-215-C-41	N4BS	83,490- 242-115-C-37
N3EC	352,800- 502-224-C-40	W6SWM	176,022- 462-127-C-7	K9SVX	391,851- 631-207-C-66	AA4RR	38,979- 183- 71-B-23
W3AZ	317,856- 602-176-C-44	K6DZT	113,400- 390-108-C-54	N9GA	280,188- 516-181-C-31	North Carolina	
K2ITG/3	276,129- 487-189-B-60	N6VR	10,080- 80- 42-C-10	Kansas			
N3II	246,078- 434-189-A-30			WB4LGE	8436- 74- 3B- 6	WA4NHP	491,184- 758-216-B-61
W3MR	111,339- 267-139-C-12	WA6PGB	1,950,078-2174-299-C-85	WB4TVE	5841- 59- 33-C-6	WD4JRS	383,292- 758-169-C-75
K3AV	90,962- 237-142-C- 9	W7QDE	1,401,530-100-253-C-59	WB4OVG	4440- 40- 37-C-10	N4WX	260,925- 497-175-C-32
WA3EKL	68,244- 242- 94-C-18	W6VGN	580,113-1499-C-59	WB4WUB	1725- 25- 23-C-3	WD4AAM	172,215- 445-129-C-46
4		W6VJ	198,009- 449-147-C-27	WB4TSF	81- 21- 12-C-9	WAUNZ	123,786- 299-138-C-37
		W6BJB	77,400- 300- 86-C-35	WB2DWP	663- 17- 13-C-9	WA4ADAN	118,603- 353-128-B-16
		W6YVK	61,716- 278- 74-B-19	WB2DZD	504- 14- 12-B-6	WA4MOK	47,196- 171- 62-A-20
		WB6JAX	54,282- 218- 83-C-36	WB2QAN	216- 9- 8-B-6	K4WKS	34,719- 163- 71-B-40
Georgia		N6HR	27,105- 139- 65-C-10	WB2RNT	12- 2- 2-A-1	WA4TFY	6930- 66- 35-B-9
		K6TL	21,004- 128- 95-C-10			WA4VMZ	4320- 48- 30-B- 7
		WB6QDE	1,997- 118- 63-C-7			WA4LWO	990- 22- 15-A- 3
Kentucky		W6SC	14,112- 96- 49-C-25			N4UH	243- 9- 9-A- 1
		W6SZN	4059- 87- 19-A-12				
WA4QMQ	485,523- 739-219-C-66	San Diego	WB4KX	208,572- 382-182-B-39	Northern New Jersey		
North Carolina		W6UQF	84,132- 365- 76-C-11	WB2LY	13,029- 101- 43-A- 4	W4ZTW	215,760- 464-155-C-35
WA4TLL	677,586- 949-238-C-70	N2LT	2,093,340-2510-278-C-77	WB2LY	2039- 31- 23-A- 4	WA4WEG	88,500- 250-118-B-41
N4AA	456,210- 685-222-C-21	N6BV	1,598,358-1966-271-C-74	WB2LW	1920- 32- 20-C- 8	WA4VQ	19,596- 92- 71-C- 5
K4FGH	168,720- 370-152-C-21	W6PM	155,628- 396-131-C-29			W4EAO	2100- 28- 25-A-20
W4OMW	49,921- 156- 96-C-20						
WB4KZG	3744- 39- 32-B- 5						
W4AMC(V4)MW,opr)	1020- 20- 17-C- 3						
Northern Florida							
W4WKQ	309,636- 564-183-C-43	K6YK	388,341- 757-171-C-38	South Carolina			
WB4OKY	71,997- 233-103-B-45	WB6VM	8988- 107- 28-C- 8	N2RM	890,340-1420-209-C-58		
South Carolina		W6RLG	924- 28- 11-A- 8	N2CW	683,640-1055-216-C-58		
N4LL	213,993- 403-177-C-36	K6DT	324,576- 662-161-C-75	WB4PWF	647,082-1042-207-C-45		
Southern Florida		K6SG	187,068- 476-131-C-26	K5VN/2	476,932- 546-214-C-44		
7				K2SNK	33,069- 151- 73-C-3		
Tennessee				WB2HJW	20,250- 150- 45-C- 9		
Arizona		K6YK	208,572- 382-182-B-39	WB2KXD	20,223- 107- 63-C-13		
K4CL	270,000- 500-180-C-45	WB6QY	12,300- 100- 41-C-31	WB2RN	12- 2- 2-A-1		
W4HVU	21,243- 97- 73-C-19	WB6FF	41,76- 48- 29-A- 8				
K4XU	688,800- 820-280-C-40	WD9CTV	429- 13- 11-A- 7				
WA4EVA	407,421- 609-223-C-27						
N4TN	364,170- 610-199-C-36						
WA4HHW/A4AVZ	308,112- 524-196-C-65						
K4XO	15,600- 104- 50-C-20						
N4OI	4770- 53- 30-C- 8						
Virginia							
N4RV	2,874,690-2535-378-C-80	W7EJ	2,120,400-2480-285-C-92	Southern Florida			
N4RA	1,211,822-1342-301-C-26	WB7NI	2,022,189-2729-217-C-81	WB2NBM	85,668- 231-124-C-32		
W4DM	603,306- 831-242-C-26	WB7ZR	448,884-1011-148-C-37	WB2GST	77,700- 158- 85-B- 6		
W4QAW	519,108- 724-239-C-47	WB7JVR	48,504- 188- 86-A-27	N4CWL	134,937- 319-141-C-37		
W4E1	306,936- 588-174-C-4	WB7WZ	37,170- 177- 70-B-40	N4CBL	19,530- 105- 62-C-15		
WEZ	245,952- 448-183-C-28	K6YK	151,848- 684- 74-C-28	WB2LW	26,838- 126- 71-C-1		
W4DR	22,982- 159-166-C-20	WB7YJW	255,420- 777-110-C-41	WA2KZP	18,228- 98- 62-C-18		
N4DW	140,748- 317-148-B-38	W7HS	246,126- 646-127-C-58	WB2HAZ	18,054- 102- 59-B- 8		
W4KMS	58,764- 166-118-C-20	K7JL	221,559- 437-169-C-34	WB2VKG	15,408- 107- 48-B-15		
WB4BZR	47,430- 155-102-C-26	W7QY	19,215- 105- 61-C-15	WB2DJO	22,232- 31- 14-C-15		
K1FR/4	34,452- 133- 87-B-17	W7QY	19,215- 105- 61-C-15	WB2ZEU	1482- 26- 19-B- 4		
W4KOQ	10,812- 68- 53-C- 9			N2SL	11,30- 25- 16-C- 3		
5				WB2FDE	780- 20- 13-C- 2		
Arkansas				K2HPV	702- 18- 13-A- 4		
K5UR	1,751,586-1654-353-C-81	K6YK	150,768- 349-144-C-22	WA2PFC	162- 9- 6-B- 8		
WA5HNN	462- 14- 11-C- 3	WB7WZ	140,768- 349-144-C-53	WB2GND	147- 7- 7-A- 1		
Louisiana							
K5KLA	1,332,240-1456-305-C-71	K7JVR	1,164,030-1610-241-C-60	Western New York			
W5OB	9,476- 242-126-C-26	WB7WZ	48,504- 188- 86-A-27	WB2BYV	1,050,192-1768-198-C-60		
K5JA	84,880- 280-103-C-26	WB7JVR	37,170- 177- 70-B-40	K2IGW	272,850- 535-170-C-27		
K5KX	43,524- 156- 93-B-12	WB7WZ	18,054- 102- 59-B- 8	WB2LOF	320,319- 489-157-C-29		
Mississippi				WB2KIM	156,264- 383-136-C-57		
W5MUB	263,934- 473-186-C-35	WB7YJW	255,420- 777-110-C-41	WB2WZO	145,800- 360-135-C-41		
New Mexico				WB2AIO	131,652- 318-138-A-10		
W5YZ	326,652- 668-163-A-64	WB7HS	246,126- 646-127-C-58	WB2ABD	69,936- 248- 94-A-18		
K5JEW	272,412- 483-188-C-62	K7JL	221,559- 437-169-C-34	WB2ECA	50,101- 192- 87-C-20		
Northern Texas		W7QY	19,215- 105- 61-C-15	WB2FJ	21,948- 118- 62-B-46		
K5NW	740,154- 878-281-B-75	WB7WZ	19,215- 105- 61-C-15	WB2MAF	19,800- 110- 60-B-17		
WB5UKI	89,700- 230-130-C-24	WB7YET	44,215- 195- 79-C-24	WB2TME	18,054- 102- 59-B-16		
WB5TDO	76,260- 205-124-A-60	WB7WZ	44,215- 195- 79-C-24	WB2TNE	28,554- 32- 28-B-7		
W5SSD	19,926- 123- 54-B-40	WB7YET	28,554- 32- 28-B-7	WB2FTV	1380- 23- 20-A-16		
N5PL	12,000- 80- 50-A-12	WB7WZ	28,554- 32- 28-B-7	WB2LCC	189- 9- 7-A- 1		
N5AW	8832- 64- 46-A-12	WB8BHLI	5832- 54- 36-C- 6				
Oklahoma		K8BA	2496- 32- 26-C- 6				
WSJME	189,819- 393-161-C-60	WB8GLC	2496- 32- 26-C- 6				
K5DEC	23,868- 117- 68-B-31	WB1BWS	14,508- 93- 52-C-16				
Southern Texas							
K5DX	971,295-1105-293-C-80	Ohio					
K5DF	291,276- 558-174-C-60	K8MN	370,821- 661-187-C-				
N5WV	15,620- 230-148-C-20	K8EF	263,025- 501-175-C-39				
W5LUU	129,504- 304-142-C-32	WB8XUS	212,625- 405-175-C-20				
K5RF	103,776- 376- 92-C-48	WB8XW	238,928- 507-175-C-46				
WA5IYX	93,912- 301-104-B-80	WB8XW	238,928- 507-175-C-46				
K5TSQ	59,692- 220- 98-C-26	K9HMB(WA4PBK,opr)	2,831,688-2348-402-C-74				
K5DUI	32,760- 130- 84-C-26	K9R	206,562- 398-173-C-47				
K5GE	12,702- 73- 58-C- 8	WB8XW	176,235- 379-155-C-24				
WB5PDQ	7224- 56- 43-C-18	WB8XW	140,070- 322-145-A-				
K5WA	840- 20- 14-C- 3	K9BQL	45,105- 155- 97-C-10				
6		WB8XW	10,296- 66- 52-B-14				
Indiana		WB8XW	2856- 34- 28-C-12				
East Bay		WB9ZRX	2,902,698-2462-393-C-92	Georgia			
K5GOE/6	9,120- 80- 38-A-15	W9RE	2,221,229-189-239-C-76	N2LH	836,340-1052-265-C-		
N6NE	8448- 64- 44-A-15	N9NS	1,819,250-1850-335-C-80	WB4LJM	559,908- 906-206-C-45		
Los Angeles		N9RC	72,252- 223-108-C-16	WB4EJ	428,220- 585-244-C-23		
N6AR	451,560- 710-212-C-34	WB9OP	427,770- 679-210-C-50	N3K	424,242- 777-182-C-53		
W6OK	37,422- 198- 63-C-36	K9QXY	97,857- 249-131-C-28	WB4WUB	323,794- 479-157-C-45		
K6OC	24,480- 120- 68-C- 6			WB4TVE	34,719- 163- 71-B-40		
W6NOL	61,05- 55- 37-B-15			WB4VZP	4320- 36- 28-B- 8		
Orange				WB4WUH	123,786- 299-138-C-37		
K6RR(N6IN,opr)	1,605,000-2140-250-C-81	Colorado	WB2RJM	34,719- 163- 71-B-40			
W6BA	267,534- 534-167-C-	WB9CP	56,936- 194- 98-C-14	WB4PRU	38,979- 183- 71-B-23		
W6TDO	1116- 31- 12-B- 7	WB2RJM	9522- 69- 46-C-18	WB4AFG	1764- 28- 21-A- 1		



N6CW, the top single-operator (high band) codeman from W6 land.



Number one single operator on cw for South America, PJ2VD. After many fine years of participation in the DX Competition, Joeke will be leaving PJ2 for The Netherlands, where he will be PA0VDV. Good luck.

6	WB0DRL(+WA0TKJ) 398,412- 714-186-C-63	ZS6WW 96,612- 332- 97-A-12	F8VJ 1,313,760-1955-224-A-51	UK5QBE 70,560- 420- 56-B-
East Bay	Minnesota	W6NV/3D6 192,930- 545-118-A-20	F6EID 265,820-1952-224-B-54	UB5VAD 381,44- 221- 58-A-
WA6JUD(+K6XO,W65 DGX,DIL) 2,082,605-220-269-C-94	K9KX(+K9WGX) 2,629,836-2519-348-C-92	F6CZU 620,784-1362-158-B-51	UB5VBD 14,982- 111- 58-B-	
K6XV(+K9PV,FJ VVI) 1,791,736-248-244-C-81		F3AT 148,086- 433-114-A-10	UB5AAQ 5816- 71- 32-B-	
W6QL(+W6KG) 1,184,274-1638-241-C-92		F6API 70,227- 289- 81-A-	UB5JFP 3630- 55- 22-A-	
Los Angeles	K9AZV(Multioop) 8316- 63- 44-C-23	F6BHX 48,312- 244- 66-A-	UC2ACA 3900- 50- 26-B-	
K6YRA(+WA9IBT) 305,118- 737-138-C-35	Nebraska	F6EQV 40,548- 218- 62-B-31		
K6ELX(Multioop) 96,960- 404- 80-C-26	WA9PY(+K9GND,W9MYT) WA9ASM,W99JHM,W9FGV 206,847- 489-141-C-65	F9BB 35,604- 172- 69-B-	UP2NV 854,304-1618-176-B-	
Santa Clara Valley	WA9ZPM(+WB0PZH) 28,272- 124- 76-C-25	F8TM 31,110- 170- 61-A-36	UP2PAO 41,892- 218- 64-B-	
N6TU(+K6RM,N65 KT LC,W1ARR) WA6VEF,WB6SHD)		F6CC1 16,383- 127- 43-A-13	UP2PAS 41,892- 218- 64-B-	
W6YL(+WA6HC1,WB6YJC,WD65) CHF,BM, ^(+Net) 8,604,640-1760-163-C-70	JR1UFO 1,537,848-2418-212-B-	G5CFJ(K6PU,opr)	UP2BAW 13,653- 111- 41-B-	
K6SMH(+Net) 107,256- 328-109-B-35	JA1IBX 1,287,264-2042-212-B-56	G3FXB 2,425,116-3313-244-A-84		
N6RZ(+WA6OCV,WB6CIE) 27,939- 139- 67-C-	JE1LSO 898,092-1482-202-B-96	G3MXJ 2,369,664-3264-242-A-78	Y03AC 110,970- 411- 90-B-	
N6GG(+Net) 5217- 47- 37-C- 7	JA1BWA 875,892-1553-188-B-50	G2QZT 1,048,944-1681-208-A-62	Y03CR 49,266- 238- 69-B-	
San Francisco	WA1YUN(VE1s BCZ BEC BHA) BJC QT, ^(+Net)	JE1SE 795,018-1646-161-B-70	Y03EP 30,912- 182- 53-A-	
Saskatchewan	WA1ZXX 1,210,482-1478-273-C-96	JA1ZDAH 652,226-1422-156-B-40	Y03AQJ 11,442- 152- 53-A-	
W6BIP(Multioop) 296,070- 710-139-C-35	JA2EKR/3 412,965-1035-133-A-50	JG5FJ(K6PU,opr)	Y09HP 4131- 51- 27-A-	
San Joaquin Valley	JA5FDJ 372,321-1009-123-C-60	J0267 30,267- 177- 57-A-		
K6AYA(+WA6OEC) 555,894-1041-178-C-55	JG1BUB 364,524- 821-148-B-41	YU3EF 2,278,380-2290-254-C-85		
7	VE	JG3VXH 340,368-1013-112-A-24	YU1PCF 1,669,662-2507-222-C-70	
Arizona	JR1I0S 28,024- 681-129-B-18	GD5CAA(K3RV,opr)	YU2RR 433,008-1010-143-A-60	
N7DD(+N6DT) 3,298,746-3322-331-C-	JG4CNL 198,008-166-161-B-19	JG5FJ(K6PU,opr)	YU1GQP 3240- 104- 22-A-	
Nevada	JG5TZX 168,732- 516-109-A-38	HB9KC 465,630- 935-166-B-25	YU1OQA 9090- 101- 30-A- 7	
WA7NIN(+K7OX,N6s BT RO SF) TV,WB6DSV)	JA2AJO 21,230- 449- 90-C-35	HB9AYZ 1716- 26- 22-B-		
Oregon	JG6AKW 110,208- 448- 82-A-	L21KOZ 35,148- 202- 58-B-	North America	
W2PVL(+K1rs AR DG GX XX, W1RR,K2s TR VV XA,WB2GXW,	JG6LW 82,554- 378- 81-B-38	LZ1BY 6786- 87- 26-B-		
W3AZD(12,285,312-6848-598-C-56)	JG6LZ 82,554- 378- 81-B-38	L21KOZ 35,148- 202- 58-B-	H18MOG 1,584,081-2479-213-C-38	
W3AU(+C9V,DK5AD,W1AIEO)	JG6LY 80,388- 248- 77-A-18	I1FGP 1,255,104-2179-192-B-42	HP1AC 43,947- 257- 57-A-	
K3EST,W3TA1V	JG6NAH 73,080- 290- 84-B-24	15Y2 55,350- 225- 82-B-21	KL7RW 3,087,576-4514-228-C-80	
WA7NIN(+K7OX,N6s BT RO SF) TV,WB6DSV)	JG6NAJ 71,040- 320- 74-B-16	KL7AF 1,101,492-1692-217-C-7	KL7GN 10,350- 75- 46-B- 3	
W3GM(Multioop) 8,629,524-5566-538-C-96	JG6DZ(X1NDX,opr)	KA6DZD(N1DX,opr)	KL7GN 10,350- 75- 46-B- 3	
W4BVV(+K2OII,K3s KU RT,W3s) 3,476,520-3480-333-C-96	JG6PZ 287- 82-B-18	OE5CWL 668,733-1319-169-B-	KP4EAJ 6,110,235-6345-321-C-76	
W3GM(+W3L,R0 NNA) 8,356,320-4974-560-C-96	JG6TFS 66,922- 278- 83-C-3	OE6HZG 668,733-1008-144-24-B-40	WA2CMX/KP4	
W7IVX(+K7WPL,W7WHY, WB7PQU)	JG7FFN/1 60,000- 250- 80-A-54	OE1TKW 63,987- 277- 77-B-24	188,496- 714- 88-A-12	
Washington	JG9LX 46,314- 249- 62-B-	OE6DX 944,649-1779-177-C-60	PJ7CL 352,434- 778-151-A-	
N7RQ(+W7s DQM EKM,WA7s) ZWG,WB7YB)	JG9LX 45,828- 268- 57-A-30	OH7NW 24,180- 124- 65-B-	ZF2AI(W9CW,opr)	
WA7NIN(+K7VW,W3KVJ,W3AR3D) K8LX(+K9GM,W38-38/2-529-C-96)	JG9LZ 44,210- 234- 50-B-19	OH1FM 19,344- 125- 52-A-	ZF2AM(W8J,UI,opr)	
WA7NIN(+K7VW,W3KVJ,W3AR3D) K8LX(+K9GM,W38-38/2-529-C-96)	JG9LZ 44,210- 234- 50-B-19	OK3CEE 210,180- 571-124-B-	W9WGG/6Y5	
WA7NIN(+K7VW,W3KVJ,W3AR3D) K8LX(+K9GM,W38-38/2-529-C-96)	JG9LZ 44,210- 234- 50-B-19	OK1AKF 180,360- 501-120-A-	392,345- 969-135-A-	
Michigan	JG9LZ 44,210- 234- 50-B-19	OK2BWL 128,304- 432- 99-A-	Oceania	
N8JW(+K8NA) 2,108,799-1969-357-C-96	JG9LZ 44,210- 234- 50-B-19	OK2BKR 59,511- 239- 83-A-11	KG6JIH(N6AJ,opr)	
K8MJZ(+K8s LF TK) 559,728-1014-184-C-52	JG9LZ 44,210- 234- 50-B-19	OK2BEC 56,638- 337- 58-A-	KG6SW(K7JA,opr)	
WB8JDA(+WB7JQ) 429,408- 672-213-C-71	JG9LZ 44,210- 234- 50-B-19	OK2ABU 25,536- 266- 32-A-	331,423- 778-142-C-10	
9	JG9LZ 44,210- 234- 50-B-19	OK3CA 27,212- 216- 39-A-	ZF2AM(W8J,UI,opr)	
Illinois	JG9LZ 44,210- 234- 50-B-19	OK3RA 510,531-1057-161-A-30	W9WGG/6Y5	
K9KA(+K9RS,W9NB,WA9JCO, WB9EBP)	JG9LZ 44,210- 234- 50-B-19	OK1MWN 627- 19- 11-A-	KG6SW(K7JA,opr)	
1,057,056-1144-308-C-92	JG9LZ 44,210- 234- 50-B-19	OE4XG 556,411-1152-161-B-38	65,93-1141-191-A-15	
Indiana	JG9LZ 44,210- 234- 50-B-19	ON4FD 206,640- 574-120-B-	ZF2AI(W9CW,opr)	
K9XA(+N9s NB NC,WB9AH0) 835,590-1211-230-C-80	JG9LZ 44,210- 234- 50-B-19	ON4XT 23,460- 171- 46-A-	ZF2AM(W8J,UI,opr)	
Wisconsin	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	VK2GW 562,320-1136-165-A-	
WB9TXJ(+WB9DIA) 32,025- 175- 80-C-52	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	VK4LX 498,576- 799-208-A-	
0	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	VK3QI 48,705- 191- 85-B-10	
Colorado	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	ZL1ADI 2,591,820-3388-255-A-	
WB9LLR(+K9KE,WB9s IKN NYY), 3,283,812-3297-332-C-94	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	ZL3BK 1,258,385-184-223-A-60	
WB9WML(+WB9RY,VY) 76,140- 282- 90-C-40	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	ZL2TX 146,718- 418-117-A-	
CW	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	South America	
DX	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	N4VV/CE3	
Single Operator	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	877,464-1741-168-B-22	
Africa	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	HC2SL 2,551,500-3402-250-C-53	
Europe	JG9LZ 44,210- 234- 50-B-19	OE5WOB 80,380- 307- 88-A-	WA4UAZ/HC1	
N3AD(+N6s BT RO SF) 3,117,976-1801-392-C-	DK3GI 2,536,578-3342-253-C-	SM6DHU 881,280-1632-180-B-60	827,391-1429-193-B-18	
W2GD(+Net) 1,885,020-1780-353-C-64	DK5AX 203,562- 526-129-B-	SM3GSK 329,040- 914-220-B-40	HK1AMW 577,917-1227-157-A-32	
N3LR(+WB3HEQ)	DK5AX 108,000- 400- 50-A-40	SM6BZE 262,104- 525-134-B-	OA8V 254,910- 586-145-A-15	
W3DHM(+W3MA)	DK5AX 94,400- 384- 50-A-40	SM0BDD 158,595- 485-109-B-28	PJ2VD 5,423,898-6067-298-C-72	
K2TD(+N2ME)	DK5AX 82,334- 323- 86-B-14	SM6AVM 138,012- 434-106-B-40	PJ9JT(W1BH,opr)	
N5TV(+WB5VAN,WB5s DFB) GKP)	DL7BQ 81,918- 333- 82-C-14	SM6CCM 139,000- 434-106-B-40	2,628,417-3463-253-C-33	
W3KT(Multioop) 541- 673-293-C-96	DL7BQ 81,918- 333- 82-C-14	SM0GMG 66,834- 282- 79-B-	PY5AHR 138,123- 447-103-B-40	
WB0WML(+WB9RY,VY) 76,140- 282- 90-C-40	DL7BQ 81,918- 333- 82-C-14	SM0DJZ 60,984- 242- 84-B-17	JA1PIG/PZ 2,548,200-3100-274-B-59	
WB0RET(+K9VWU,WB9s SEM YR, WB9s EZQ KW1)	DL7BQ 81,918- 333- 82-C-14	SM0GNU 55,350- 225- 86-B-	YV1NX 1,969,500-2626-250-A-44	
WB0WML(+WB9RY,VY) 76,140- 282- 90-C-40	DL7BQ 81,918- 333- 82-C-14	SM0CGO 25,400- 155- 56-A-	N7DC/YV5 840,294-1482-189-B-45	
WB0RET(+K9VWU,WB9s SEM YR, WB9s EZQ KW1)	DL7BQ 81,918- 333- 82-C-14	SM0CGO 25,400- 155- 56-A-	JA2NDQ 685,665-1693-135-C-40	
WB0RET(+K9VWU,WB9s SEM YR, WB9s EZQ KW1)	DL7BQ 81,918- 333- 82-C-14	SM0CGO 25,400- 155- 56-A-	JA7GAX 561,750-1498-125-C-34	
9	DM4JSDA 107,856- 428- 84-A-	SP8ECV 878,964-1646-178-B-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM3NFK 80,676- 332- 81-A-	SP8ECV 878,964-1646-178-B-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM4N 48,890- 235- 56-A-	SP6ASD/6 192,930- 545-118-B-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM4N 48,890- 235- 56-A-	SP7DT 51,903- 237- 73-A-33		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM2FEI 32,188- 142- 38-A-	SP9EY 50,515- 225- 52-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM3VTL 14,112- 98- 48-A-	SP2AYC 16,800- 165- 30-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM2CZJ 10,791- 109- 33-A-	SP4INT 14,763- 133- 37-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM2GHL 8316- 99- 28-A-	SP7HWN 10,530- 135- 26-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP9HWN 7704- 107- 24-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP4BMO 7107- 103- 23-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP7LH 6210- 69- 30-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP9VY 50,515- 225- 52-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP3CQ 3600- 50- 24-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP6PEI 720- 24- 10-A-		
WB0JMT(+WB4VGL,WA4s GFL OIP,WB4EUP,opr) 37,440- 160- 78-C-15	DM6AF/DM5WQD 78,303- 87- 30-A-	SP4EKY 273- 13- 7-B-		

JR1AMK	509,679-1317-129-B-40	EA2OP	210,540- 605-116-A-17	SP6AEG	153,468- 520- 98-B-	Europe	GU3HFN(GU3MBS, GU4s CHY EON,K5MM,opr)s 400,500- 890-150-A-32
JH1ACQ	490,194-1446-113-C-80	EA4BV	41,400- 230- 60-A-	SP9CTW	59,202- 253- 49-B-	DJ9MH	205,146- 786- 87-B-39
JH1JKG	445,125-1187-118-B-5	EI2BB	458,832-1264-121-A-27	SP4GHT	29,400- 245- 40-B-15	DJ9PK	195,465- 785- 83-C-
JH2AIR	351,792-1047-112-C-42	EI4CP	6300- 100- 21-A- 9	SP3JDZ	27,324- 198- 46-A-	DK3PK	98,940- 485- 68-B-
JH3CJAE	335,124-1044-107-C-35	F6DNR	115,632- 438- 88-A-35	SP9BBH	13,650- 130- 35-A-	DK3AD	61,803- 327- 63-C-
JH2XMP	166,176- 82- 98-C-6	F8TQ	253,752- 776-109-A-	SP2HMT	10,947- 89- 41-A-	DK3FB	33,240- 277- 40-B-16
JH2IJ	149,760- 520- 96-A-2	F6ENR	87,600- 400- 73-B-	SP5TU	9588- 94- 34-A-	DK7FP	26,568- 164- 54-C-18
JH4AHT/1	112,746- 437- 86-A-32	F6PZ	56,16- 247- 76-A-	SP3EQE	8184- 124- 22-B-	DA2LJ(W4NT,opr)	9690- 95- 34-C- 6
JH1GLT	108,800- 520- 86-B-2	F3DA	6048- 96- 92-A-	SP5GRU	6426- 102- 21-A-	DA2LJ(W4NT,opr)	338,432- 952-122-B-
JF1SEK	80,817- 341- 86-B-2	F8NS	150- 10- 5-A- 3	SP2JKC	5544- 84- 22-A-	OH3AA(OH3s TQ WS XT XZ, oprs)	99,360- 345- 96-C-30
JH1CSB	78,000- 520- 86-B-2			SP9IGY	4104- 76- 18-A-		
JJ1BBO	76,440- 490- 52-B-14	G3MZV	333,060- 910-122-A-24	SP6FER	3819- 67- 19-A-	DM4VUG	85,680- 408- 70-B-
JH1OP	70,632- 327- 72-B-36	G5CES(K1FN,opr)	243,960- 760-107-A-13	SP9ERC	3306- 58- 19-B-	DM3WMJ	46,488- 298- 52-A-
JH1JW	66,528- 396- 56-A-	G5CEY(K5N,opr)	198,162- 654-101-A-16	SP9ZDU	312- 58- 18-B-	DT3XM	35,640- 220- 54-B-
JH8FBM	58,140- 285- 68-B-13	G3NKS	70,917- 307- 77-A-15	SP9ZD	2374- 44- 18-B-	DM2CUJ	34,393- 294- 39-B-
JR3COZ	57,564- 369- 52-B-21	G3FAS	46,431- 231- 67-A-	SP2HMT	924- 28- 11-A-	DM2DEO	3300- 55- 20-A-
JR3EXX	49,770- 237- 70-A-	G6NKN	35,712- 248- 48-A-30	SP3HC	990- 33- 10-B-	DM4NQV	3120- 52- 20-A-
JH4S9V	44,019- 219- 67-B-	G3YBH	25,596- 158- 54-A- 4	SP6WLG	486- 18- 9-A-	DT2DN	2400- 50- 16-B-
JH1LQ	41,52- 222- 63-A-19	G8DI	5925- 159- 25-A-1	SP9IXG	384- 16- 8-A-	DM5QDL	1800- 40- 15-A-
JH7KXD	40,83- 150- 56-A-1	G3IRM	480- 16- 10-A-	SP9JBE	351- 13- 9-A-	DM4WJG	180- 10- 6-A-
JA5XFS	40,656- 242- 56-A-24						
JG1LEB	36,456- 196- 62-B-15	G14BBV	249,630- 785-106-A-25	UA4HDZ	47,082- 266- 59-B-	EA2IA	194,376- 728- 89-B-
JH0VBJ	34,584- 262- 44-C- 9	GM4CXM	112,200- 440- 85-A-37	UA3ST	26,676- 234- 38-B-	F8ZF	79,794- 429- 62-B-26
JH1MTR	34,344- 216- 53-B-	GM3LYY	58,656- 416- 47-A-23	UA3ER	20,868- 188- 37-B-		
JH2AKD	27,671- 236- 39-B-19	GM4CXW	10,200- 100- 12-A-	UA3MBD	10,545- 92- 37-A-	G4AMT	85,698- 414- 69-A-14
JH2LES	25,920- 81- 125-C-16	HASJK	16,335- 165- 33-A-13	UA3TR	935- 105- 29-B-	G3TXF	70,380- 340- 69-A-
JH4HLLN	25,872- 176- 49-A-17			UA6LLI	4284- 68- 21-A-	GM4RV	46,458- 267- 58-A-
JF1WPB	25,596- 158- 54-A-15	H9BDX	307,740- 892-115-B-	UA3TA	3036- 44- 23-B-	I0JX	401,568-1244- 94-B-33
JF1MY1	25,272- 218- 39-B-30	H9BLQ	117,288- 543- 72-B-	UA3AQ	1632- 32- 17-A-	I2XXG	340,431-1247- 91-B-
JH3CFS	21,600- 150- 48-B-	H9AGH	81,786- 317- 86-A-	UA1ARF	864- 24- 12-A-	OK1OKF(Multiop)	21,285- 165- 43-A-
JH2RJH	21,280- 150- 36-A-1	H9BOW	25,410- 154- 55-A-	UA4CDC	759- 23- 11-A-	OK1KCF(Multiop)	2754- 51- 18-B-
JH2CGB	12,096- 144- 28-B-	HB0AON/M	27- 3- 3-B- 1	UA4CK	459- 17- 9-A-	LZ2JF	87,360- 455- 64-B-24
JH2BJC	11,970- 95- 42-B-	I0MGMI	1,276,506-2763-154-B-1	UA2EC	107,460- 398- 90-A-	OE5KE	246,906- 946- 87-B-
JH0COR	11,931- 97- 41-B-14	I1FOX	904,425-1945-155-B-55	UA5KAM	22,866- 206- 37-B-	OE5KE	246,906- 946- 87-B-
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JH9FT	4,899- 71- 23-B- 2	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
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JG1GJB	3,828- 56- 22-A- 4	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
JE2GHO	2,301- 59- 13-A- 8	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
JR6LP	1,710- 30- 19-A-11	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
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JH6EF	925- 20- 21-A-	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
JH6JL	765- 17- 15-A-	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
JH1PAQ	651- 31- 21-A-	I50MWE	104,517- 441- 79-A-27	UB5KZ	10,200- 39- 37-B-	OE5KE	246,906- 946- 87-B-
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JH1YOE(K7JA,opr)	90- 10- 3-A-	OH6HQ	208,530- 662-105-C-	UA5AP	11,760- 112- 35-A-	PA0GN(PA3ADC,PA5 BRERA GIN,opr)	PA0GN(PA3ADC,PA5 BRERA GIN,opr)
JH0GZ	84- 14- 2-A-	OH6ZAB	169,011- 633- 89-C-40	UR2QD	65,928- 328- 67-B-	PI2MHN(+PA3ABA)	1,030,000-1855-200-A-75
JH0ZG/1	18- 3- 2-A-	OH6ZAB	169,011- 633- 89-C-40	UR2RWA	3828- 58- 22-A-	SP6PZV(SP6s ANY ATG,opr)	349,118- 843-142-B-
JT1AN	25,530- 230- 37-B-	OH5SS	20,955- 127- 55-A-	UO5AP	11,760- 112- 35-A-	SP9KRT(Multiop)	1,062,860- 674-130-B-
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UA9AQ	15,651- 141- 37-B-	OK1QKF/O	368,868-1042-118-C-	UO5OD	11,760- 112- 35-A-	UK1NA(A Multiop)	84,807- 349- 81-B-
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UA9AAB	6018- 59- 34-B-	OK3IF	103,320- 410- 84-B-	HP4USNI(K5PM,opr)	1,890,504-3751-168-C-46	UK4FAV(Multiop)	2232- 31- 24-A-
UD9DVM	332- 32- 24-B-	OK1JHR	99,702- 382- 87-A-	KP4BKY	40,680- 339- 40-B-14	UK5WAZ(Multiop)	268,812- 786-114-B-
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UD6BW	483- 23- 7-B-	OK1ADW	11,250- 122- 46-A-	PJ9AD(K1VR,opr)	8022- 191- 42-C- 2	UK5XBA(Multiop)	184,275- 675- 91-A-
UD6DKW	456- 19- 8-A-	OK2PBG	15,330- 146- 35-A-	TF3CW	196,695- 705- 93-B-60	UK5UBB(Multiop)	163,098- 697- 78-B-
UF6BN	7056- 84- 28-B-	OK1AMW	10,989- 111- 33-B-	UQ2GEC	1053- 27- 13-A-	UK5JAO(Multiop)	163,098- 697- 78-B-
UH8DC	14,364- 126- 38-B-	OK2SMO	8748- 108- 27-A-	UQ2RHF	1581- 31- 17-A-	UK5JCN(Multiop)	14,706- 114- 43-A-
UJ8JCL	210- 10- 7-B-	OK1ATB	7968- 83- 32-A-	N7ET/DU6	45- 5- 3-A- 5	UK5UBF(Multiop)	11,320- 115- 34-A-
UL7PBI	8262- 81- 34-A-	OK1KUF	3591- 63- 19-A-	FK8CL	55,800- 300- 62-A-	UK5HAZ(Multiop)	780- 20- 13-A-
UL7LBM	7200- 80- 30-A-	OK1C1J	3354- 43- 26-A-	FK8CL	55,800- 300- 62-A-	UK5JCN(Multiop)	780- 20- 13-A-
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4Z4UX	60,480- 280- 72-A-	OK2KOO	648- 18- 12-B-	KH6JFT	274,596- 934- 98-C-19	UK2BAS(UP2s GF PAJ,opr)	1,160,898-2026-195-B-65
4Z4TA	60,480- 280- 72-A-	OK1MSO	180- 10- 6-A-	KH6JHS	140,340- 435-108-26	UK2PAO(UP2s LDN OS1 JUN,opr)	1,380,300- 461-100-B-
Europe	206,721- 669-103-A-	SM3SEVR	521,088-1357-128-B-	YV5AAZ	1,018,314-2442-139-A-58	UK2PBP(UP2s BEF TDE,opr)	27,187- 222- 57-A-
DM3X50	176,040- 652- 90-B-24	SK9HB(SMG9ZM2,opr)	358,087-1133-113-A-	YV5AAZ	1,018,314-2442-139-A-58	UK2GKW(Multiop)	1,024,164,200-1374-B-
DM2FFL	73,320- 376- 65-A-24	SM3SCMP	10,155- 383- 37-B-	YV5AAZ	1,018,314-2442-139-A-58	UK2GAC(UG2s GDX GGM GIN,opr)	600,780-1324-155-B-
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DM3BPF	44,124- 261- 58-A-	SM5XX	38,793- 193- 67-B-	YV5AAZ	1,018,314-2442-139-A-58	UK2GAY(Multiop)	8610- 82- 35-B-
DM2CKD	31,660- 192- 55-A-	SM5AKT	38,793- 193- 67-B-	YV5AAZ	1,018,314-2442-139-A-58	Y08KAN(Y08s ME QH,opr)	729- 27- 9-B-
DT2FWL	27,120- 226- 40-A-	SM5CAK	31,146- 179- 58-B-	YV5AAZ	1,		

The view from the other side



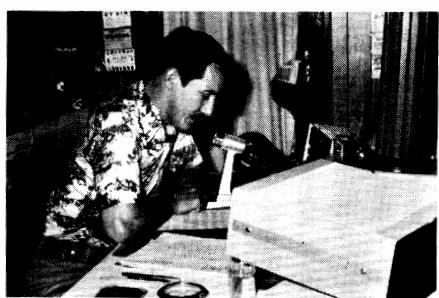
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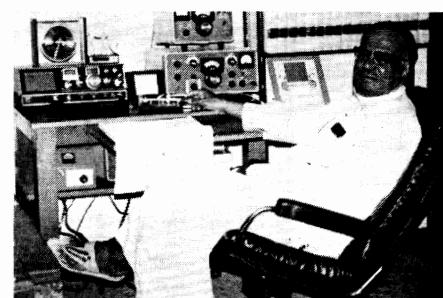
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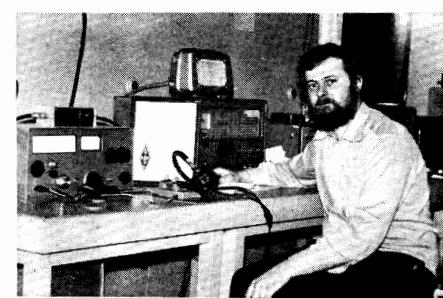
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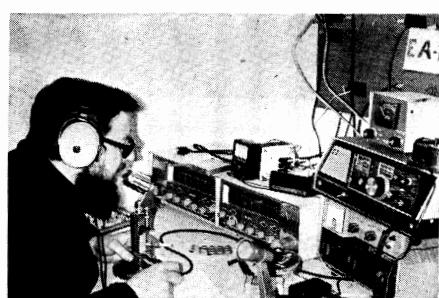
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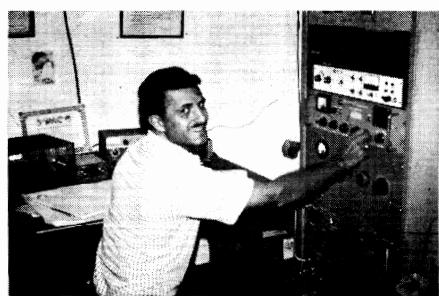
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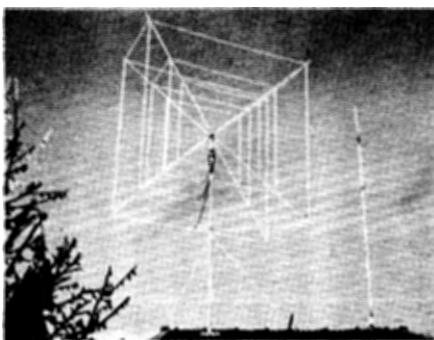


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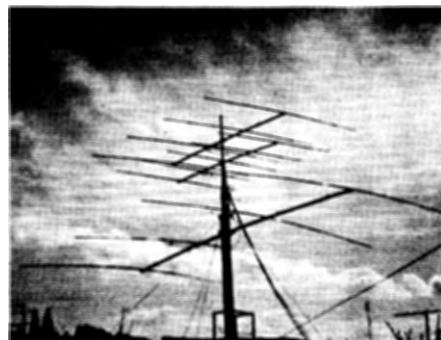
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N.Y.C. - L.I.	W4JD 269,928- 652-138-C-29 WA4ZAL 209,192- 481-144-C-39 WA4ZAL 32-184- 45- 72-C-35 WA4RRJ 16,692- 107- 52-B-38	Tennessee W0RIB/4 4725- 45- 35-B- 8 K4JEZ 810- 18- 15-B- 5 W4OGG 684- 19- 12-A- 1	Washington W7GUR 82,170- 330- 83-C-39 WA7GZA 25,155- 195- 43-B-20	Alberta VE6KW 369,369-1001-123-C-56			
W2AYJ 386,289- 753-171-C-40 N2GC 280,245- 595-157-A-59 K2OB 103,275- 425- 81-C-36 W2IRV 88,290- 270-109-C-14 W2AFM 41,580- 180- 77-B-55 W2GC 29,346- 134- 33-C-3 WB1UHQ 17,572- 108- 58-C-14 WB2QNF 15,500- 88- 59-C-13 W2GNH 5301- 57- 31-B-12 W2ILL 41,31- 51- 27-A- 2 K2TY 3480- 40- 29-C-5 W2TE 1425- 25- 19-C- 2 WB2RNT 12- 2- 2-A- 1	W4HBK 788,238-1327-198-C-62 N4MM 497,361- 859-193-C-25 K4GKD 289,467- 639-151-C-36 W3YVY/4 100,035- 351- 95-C-18 N4VJ 32,028- 157- 68-A-15 WB4DNL 3612- 43- 28-A-25	Virginia W7AGE 10,710- 70- 51-A-26 K7XX 6885- 153- 15-B- 5 K7XX 6384- 168- 38-C- 8	British Columbia VE7DTA 62,514- 302- 69-B-47 VE7AV 43,605- 285- 51-C-	W6DNM 26,019- 177- 49-C-11 Sacramento Valley N6DM 51,597- 273- 63-C-			
Northern New Jersey	W2WD 388,170- 681-190-C-45 WA2ZWH 207,111- 527-131-A-59 WL2KH 26,544- 112- 79-A-13 WA2YLY 17,136- 136- 42-C-13 K2VY 12,000- 26-A- 8 W2GND 8526- 58- 29-A- 9 W1GD/2 6825- 65- 35-C-5 N2IN 1188- 22- 18-A- 4 WA2PQU 684- 19- 12-A- 3 W2UL 360- 12- 10-C- 5 WA2EPK 126- 7- 6-A- 1	5	Washington W7WA 555,255-1371-135-C-59 K7NF 315,489-1021-103-C-41 W7WMO 117,189- 449- 87-B-37 W7BUJ 95,700- 580- 55-C-23 K7RA 65,475- 291- 75-C-11 W7WPK 13,995- 280- 67-B-23 N7CT 13,250- 110- 67-B-23 W7WPK 10,710- 70- 51-A-26	Alberta VE6KW 369,369-1001-123-C-56	7		
Southern New Jersey	N2OO 1,614,600-2300-234-C-81 N2RM 243,390- 610-133-C-79 N2IT 174,750- 466-125-B-34 N2CM 122,610- 335-122-A-45 WB6GFE 18,952- 354- 96-C-26 W2ZET 40,010- 138- 28-C-10 W2IFE 38,010- 181- 70-B-30 WA2PKC 13,197- 83- 53-C-17 WB2ZEU 10,080- 80- 42-C-16 W2FGY 3150- 35- 30-B- 6	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4	
Western New York	W2ABM 122,223- 311-131-C-40 W2FTY 75,570- 229-110-A-50 WA2LOG 67,077- 255- 87-C-39 W2SEC 58,308- 226- 86-B-20 WA2SON 47,304- 216- 73-B-13 WA2MYU 23,040- 128- 60-B-24 WA2ECA 20,029- 119- 57-A- 8 WB2AIQ 9324- 24- 42-A-5 WB2YGH 7350- 70- 35-A- 5	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Southern New Jersey	W2WD 388,170- 681-190-C-45 WA2ZWH 207,111- 527-131-A-59 WL2KH 26,544- 112- 79-A-13 WA2YLY 17,136- 136- 42-C-13 K2VY 12,000- 26-A- 8 W2GND 8526- 58- 29-A- 9 W1GD/2 6825- 65- 35-C-5 N2IN 1188- 22- 18-A- 4 WA2PQU 684- 19- 12-A- 3 W2UL 360- 12- 10-C- 5 WA2EPK 126- 7- 6-A- 1	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Northern New Jersey	N2OO 1,614,600-2300-234-C-81 N2RM 243,390- 610-133-C-79 N2IT 174,750- 466-125-B-34 N2CM 122,610- 335-122-A-45 WB6GFE 18,952- 354- 96-C-26 W2ZET 40,010- 138- 28-C-10 W2IFE 38,010- 181- 70-B-30 WA2PKC 13,197- 83- 53-C-17 WB2ZEU 10,080- 80- 42-C-16 W2FGY 3150- 35- 30-B- 6	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Western New York	W2ABM 122,223- 311-131-C-40 W2FTY 75,570- 229-110-A-50 WA2LOG 67,077- 255- 87-C-39 W2SEC 58,308- 226- 86-B-20 WA2SON 47,304- 216- 73-B-13 WA2MYU 23,040- 128- 60-B-24 WA2ECA 20,029- 119- 57-A- 8 WB2AIQ 9324- 24- 42-A-5 WB2YGH 7350- 70- 35-A- 5	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Eastern Pennsylvania	W2ABM 122,223- 311-131-C-40 W2FTY 75,570- 229-110-A-50 WA2LOG 67,077- 255- 87-C-39 W2SEC 58,308- 226- 86-B-20 WA2SON 47,304- 216- 73-B-13 WA2MYU 23,040- 128- 60-B-24 WA2ECA 20,029- 119- 57-A- 8 WB2AIQ 9324- 24- 42-A-5 WB2YGH 7350- 70- 35-A- 5	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Delaware	WA3WPY 1125- 25- 15-C- 3	5	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Alabama	W4NKK 136,740- 430-106-C-27 W4RAL 60,180- 236- 85-A-21 WA4HOQ 5565- 53- 35-A-20	6	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Georgia	N4NX 515,823- 847-203-C-53 N4SV 386,019- 841-153-B-65 W4DXI 277,884- 558-166-C-58 WA4GQJ 11,772- 109- 36-C-18	6	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Kentucky	WB4PRU 155,610- 455-114-C-34 WA4QMQ 113,226- 334-113-B-56 AA4AR 61,008- 248- 82-B-16 WB4ZLJ 22,000- 32- 22-B- 6	6	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana K5KLA 621,918-1047-198-C-57 WA5NUK 349,323- 689-169-C-42 W5WCO 106,470- 338-105-C-49 K5BLV 251,736- 177- 56-B- 9 WB5UQW 7347- 79- 31-C-24	Michigan N8JW 832,644-1374-202-C-26 WB7FF 263,370- 145- 135-C-26 WB7TQ 200,000- 460-145-C-49 K8SY 185,712- 584-106-C-39 W8UD 162,513- 463-117-C-36 K8RCT 47,970- 195- 82-B-15 WB7LJG 42,334- 181- 78-B- 8 WB7NAAX 30,885- 145- 71-B-19 WB7W 22,200- 110- 67-A-20 WB7TW 15,288- 98- 44-B-14 K8QWG 8040- 67- 40-B-14 WA8LTZ 5751- 71- 27-C- 8 K8DAC 4554- 46- 33-A-12 WB8LCU 2961- 47- 21-A-12 WB8VBC 2640- 40- 22-C- 3	Connecticut WA1UAC 98,040- 380- 86-C-39	W7PSO 1404- 26- 18-C- 4
Western Pennsylvania	W3GRF 938,736-1476-212-C-50 WB2ZLJ 505,736- 918-184-B-88 W3HVM 98,088- 268-122-C-20 W3DSO(N4ZR,opr) 86,292- 282-102-C-14	6	Arkansas WA5SOG 32,571- 139- 63-B-17 WE5IJ 969- 19- 17-B- 3	Louisiana</			

Tower Power

W2PV	
160	Inverted V @ 160' Beverages
80	2-el Delta loop @ 160' (top) Dipole @ 150' Sloper Beverages
40	3/3 @ 170' (top) 85' (bottom) 3-el @ 85'
20	7/5 @ 150' (top) 100' (middle) 50' (bottom) 6/6 @ 105' (top) 42' (bottom)
15	8/8 @ 91' (top) 46' (bottom) 4-el fixed arrays
10	10/10 @ 92' (top) 53' (bottom) 4/4 fixed arrays



The quad at HB9KC (built by HB9MB) stands out with a coating of frost.



I5VXG's 4 elements on 20 and 15, and 5-el on 10.



I3MAU's big signal comes from a 2-el quad on 40-10 M plus a 4-el 80-M loop.