

# Results, 1981 ARRL International DX Contest

“The secret of success is constancy to purpose.” — Benjamin Disraeli, Earl of Beaconsfield (1804-1881)

By Mark J. Wilson,\* AA2Z and Bill Jennings,\*\* K1WJ



Bears do not bear radios, and that is all, says Ville, OH2MM, that kept him from being shot as a bear while he trudged through the snow to his countryside contest location. Ville was able to bear up under the competition and take the top 20-meter phone award for Europe and the 20-meter phone DX plaque.

## 1982 ARRL International DX Contest

CW	Phone
February 20-21	March 6-7

single plaque by a healthy margin, while the gang at KØRF finished first on phone. Besides having big antennas and good operators, both groups took advantage of good European and JA openings to fill the log pages, while the multiplier station operators patiently waited for the East and West Coast aluminum curtains to open so they could work the rare ones. Of note is KØRF's QSO total of 517 on 40-meter phone. We didn't believe that number either, but we checked it out, and they really did work an incredible number of 20- and 100-watt JA stations.

The multi-multi competition is usually hot and heavy, with the big stations battling for the lower band edges until the loudest station wins and the loser slinks off to lick his wounds. The Frankford Radio Club crew at K2UA hung in there on code and came out on top for the first time, while the Yankee Clipper Contest Club teams at W2PV and K1OX slugged it out on phone.

N2AA deserves mention as winner of the QRP category on both modes. Using fairly modest antennas, Gene worked some really nice DX such as VS6 and KX6 on cw. Among the 91 countries he worked on 10-meter phone were 6W8, CEØA and D4. Not bad for 5 watts and a 3-element beam at 20 feet.

Many thanks to the 4162 DX contesters who submitted 2175 cw and 1987 phone logs, helping to celebrate the return of the ARRL International DX contest. The February 21-22 (cw) and March 7-8 (phone) running of the contest signaled the end of the “world works the world” experiment conducted last year. Overwhelming opinion by contesters worldwide brought back the “world works W/VE” to the 1981 contest and brought it back to stay.

The great experiment of 1980 was far from a flop in terms of what it added to the contest, however. It gave us the popular single-band entry categories for single-operator stations, an expanded awards program (plaques) and a new philosophy for the multi-single category. Bertrand Russell was right when he said, “Change is one thing, progress is another.” He might have taken that one step further and said, “Change without progress is change without purpose.” We did gain something from the 1980 experiment.

Excellent band conditions both weekends apparently helped increase the number of logs received by 153 from last year's total of 4009. Activity was so good that the top two phone single-op stations and the top four cw single ops all managed to clear 2000 QSOs. K1KI also sniffed out 397 multipliers on phone, a total not seen since the days of two weekends per mode.

The Top-Ten W/VE single-operator scores came, for the most part, from the northeast (so what else is new?). Conditions were better for those farther west on phone, with W9ZRX, N7DF, VE7BTV and KD6PY all making the grade. Cw was a different story, however, as WØUA at KØRF was the only one outside the first three call areas to make it. K1JX, N3BB and N2LT showed their skill and endurance by appearing in the Top Ten on both modes. K1VTM, operated by K1JX, just narrowly



K1JX operated K1VTM to a first-place finish on phone and second place on cw. This is the second year in a row that someone won on phone from K1VTM, but that won't happen again, thank God!

squeaked past K1KI for the top phone honors, and both of these top contesters were a cool half-million points ahead of the nearest competition. On cw, N2NT put the W2PV antenna farm to good use and easily swept past the competition to fill the top slot.

Single-band competition, retained from last year, again proved popular as about 30 percent of the W/VE single ops chose that category. The attractions are obvious: some sleep is possible, it's easier to build a competitive antenna system for one band than for all bands and there is no worry about missing an odd long-path opening or a rare multiplier that only shows up for a few contacts. There were several outstanding single band operations that outshined even the biggest multi-multis. On phone, K1UO used his quiet location in Maine (a mere stone's throw from Europe) to run stations earlier and later than most other competitors on 10, while W7WA used K7RI's fabulous shot to Japan to rack up almost 2400 QSOs on 15 meters alone. On cw, W8LRL found the patience to track down 37 QSOs and 24 multipliers on 160 meters.

Although the western stations didn't fare too well in the single-operator category, they dominated the multi-single class. The K5RC group again walked away with the cw multi-

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## United States and Canadian Plaque Winners

### Phone

Single operator	Winner	Donor
All Band	<b>K1VTM (K1JX)</b>	Frankford Radio Club
1.8 MHz	<b>W8LRL</b>	ARRL
3.5 MHz	<b>W1CF (K8UR)</b>	Gary Firtick, K1EB/W1EBC
7 MHz	<b>K7UR</b>	David Thompson, K4JRB/K5MBX
14 MHz	<b>K3KG</b>	Richard Loehning, N9ACP and Mark Michel, W9OP
21 MHz	<b>K7RI (W7WA)</b>	Hamfesters Radio Club, W9AA
28 MHz	<b>K1UO</b>	Roy and Kathryn Tucker, N6TK and AA6TK
QRP	<b>N2AA</b>	Rockford Amateur Radio Assn.
Multi-Single	<b>KØRF</b>	Mid-Ohio Contest Club
Multi-Multi	<b>W2PV</b>	Buffalo Area DX Club

### CW

Single Operator	Winner	Donor
All Band	<b>W2PV (N2NT)</b>	Frankford Radio Club
1.8 MHz	<b>N4IN</b>	W1TX Roy Fosberg Memorial (Connecticut Wireless Assn.)
3.5 MHz	<b>W1ZM (K1ZM)</b>	Northern Illinois DX Assn.
7 MHz	<b>W5UN</b>	DX Awards Guide — Ellis— Doucett Memorial
14 MHz	<b>K5IY (KA5CHW)</b>	Neenah-Menasha Amateur Radio Club
21 MHz	<b>K1RM</b>	Willamette Valley DX Club
28 MHz	<b>WØZV</b>	Mike Badolato, W5MYA
QRP	<b>N2AA</b>	Hollywood Amateur Radio Club
Multi-Single	<b>K5RC</b>	Mid-Ohio Contest Club
Multi-Multi	<b>K2UA</b>	North Florida ARS—Hollis Graves Memorial

The top DX scores came from the Caribbean, as usual, but all continents except Asia were represented in the DX Top Ten. On cw, veteran single-ops HH2VP, W1BIH/PJ2 and VP2VI vied for first place, with HH2VP the eventual winner. Only slightly discouraged by the results of last year's cw effort, K2YY again traveled to Montserrat, this time for phone. The results were a little more rewarding as John won the DX phone plaque by a good bit. Rounding out the DX Top Ten were some fine scores from Europe, Africa and South America, as well as several from Oceania. The Caribbean was also the site of an outstanding phone multi-single effort at VP2E. K8ND and friends put on quite a show, breaking 10,000 QSOs before dupes and working 330 out of a possible 342 multipliers. They averaged 214 QSOs per hour for the entire contest, made 326 QSOs the first hour and bought all the throat lozenges on the island of Anguilla.

There was an increase in the affiliated club



JAØNL — 15-meter cw competitor.

competition this year, with 88 clubs meeting the criteria. The Frankford Radio Club won the Unlimited Class gavel again this year with a whopping 106 megapoints and 126 entries. There was, however, some serious competition from the Yankee Clipper Contest Club this time. Seems the YCCC was only about 9 million points behind after the cw weekend (traditionally Frankford's strong mode), and this led to some good-natured rivalry and joking among members of the two clubs. FRC managed to mobilize the troops and field a number of small phone multi-multis to win out in the end. Murphy's Marauders took the honors in the Medium Class for the third year in a row, with the North Texas Contest Club pack hot on the trail. Last, the Ill Wind Contesters used their big multi-multis to blow away the Central Virginia Contest Club in the Local Class. The club competition has grown over the past few years to become as intense as the competition among individual stations.

## DX Plaque Winners

### Phone

Single Operator	Winner	Donor
All Band—World	<b>VP2MP (K2YY)</b>	North Jersey DX Assn.
Africa	<b>EL2AV</b>	John Farrington, WA1TQP
Asia	<b>JA1ELY</b>	Lafayette ARC and Acadiana DX Assn.
Europe	<b>I6FLD</b>	Murphy's Marauders
North America	<b>N1GL/VP9</b>	Chod Harris, VP2ML
Oceania	<b>KH6NO</b>	Ray Stone, W5RBO
South America	<b>PP2ZDD</b>	Roy and Kathryn Tucker, N6TK and AA6TK
1.8 MHz	<b>H18JAG</b>	Arkansas DX Assn.
3.5 MHz	<b>H18PGG</b>	Robert Peterson, W3YY
7 MHz	<b>FMØFJE</b>	KN6M Contest Machine
14 MHz	<b>OH2MM</b>	Don Wallace, W6AM
21 MHz	<b>YU3TU</b>	Worldradio
28 MHz	<b>FGØFOO/FS (N6RA)</b>	Mike Badalato, W5MYA
QRP	<b>I5NSR</b>	William Shepherd, K3WS
Multi-Single World	<b>VP2E</b>	Delta DX Assn.
Africa	<b>EL9A</b>	Indy DXers
Asia	<b>JA2YKA</b>	Kansas City DX Club
Europe	<b>CT2ARA</b>	Roger De Busk, K8LSG, Memorial
North America	<b>NP4A</b>	Lynn and Rosie Lamb, W4NL and KA4S
Oceania	<b>ZL3BK</b>	Carl Smith, WØBWJ
South America	<b>W4PRO/CEØ</b>	Liga Colombiana de Radioaficionados
Multi-Multi World	<b>G4ANT</b>	Gloucester County ARC-SNJ
Africa	<b>EA9IE</b>	Randy and Sharon Stegemeyer, W7HR and WB7DBP
Asia	<b>JA7YAA</b>	Mike Badalato, W5MYA
Europe	<b>N2BVJ/LX</b>	Grosse Point Farms DX Assn.
North America	—	Southeastern DX Club

### CW

Single Operator	Winner	Donor
All Band—World	<b>HH2VP</b>	North Jersey DX Assn.
Africa	<b>5T5CJ</b>	San Diego DX Club
Asia	<b>JA1BWA</b>	Sonoma County Radio Amateurs
Europe	<b>EA2IA</b>	Clarke Greene, K1JX
North America	<b>VP2VI (WØDX)</b>	Pete Grillo, W6RTT
Oceania	<b>KH6ND</b>	Ray Stone, W5RBO
South America	<b>W1BIH/PJ2</b>	Alamo DX Amigos—San Antonio
1.8 MHz	<b>OK3CPL</b>	Arkansas DX Assn.
3.5 MHz	<b>EA8RL</b>	Earl D. Merry Memorial (W8KI; donor)
7 MHz	<b>KP4EQF</b>	Art Boyers, K3KU
14 MHz	<b>OH5TQ</b>	Bencher, Inc.
21 MHz	<b>TF3YH</b>	Southern New England DX Assn.
28 MHz	<b>G4GIR</b>	West Jersey Communications Products
QRP	<b>G4BUE</b>	AJ7S—Nashua Amateur Radio Club
Multi-Single World	<b>JA7YAA</b>	Texas DX Society
Africa	<b>TL8WH</b>	Red Stick DX Assn.
Asia	<b>UKØQAA</b>	Red Stick DX Assn.
Europe	<b>DLØAA</b>	South Florida DX Assn.
North America	<b>FMØFOL</b>	The K5RC Multiop Crew
Oceania	<b>KH6IFY</b>	KN6M Contest Machine
South America	—	Mike Badalato, W5MYA
Multi-Multi World	<b>NL7M</b>	QRZ DX
Asia	<b>JF1ZRQ</b>	Colorado Contest Conspiracy
Europe	<b>OH1AF</b>	George Schultz, WØUA, and John Brosnahan, WØUN
North America	<b>NL7M</b>	Ventura County ARC, K6MEP

## Special Plaque Winners

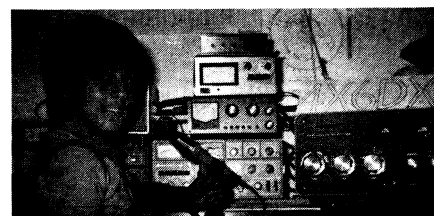
Single Operator	Winner	Donor	Single Operator	Winner	Donor
Republic of South Africa (phone)	<b>ZS6ABO</b>	Bill Jennings, K1WJ	Dominican Republic (cw)	<b>HI8LC</b>	Jose Barecelo, HI7UP
Scandinavian Award (combined)	<b>OZ1LO</b>	John Lindholm, W1XX	Reciprocal Operator (foreign in U.S.)	<b>LA4LN/W3</b>	Amateur Bilingual Radio Operators and DX Southern California Contest Club
W/VE Low Power (top, both modes)	—	Ken Bolin, W1NG	California (cw)	<b>K6NA</b>	Dave Bell, W6AQ
World Combined Score (both modes)	<b>KH6ND</b>	Yankee Clipper Contest Club	California (phone)	<b>KD6PY</b>	Dennis Motschenbacher, KA5CHW
Israel (cw)	<b>4Z4RS</b>	Martin Hartstein, N6WW	Texas (cw)	<b>K5NW</b>	Wireless Institute of the Northeast
Israel (phone)	<b>4Z4RS</b>	Martin Hartstein, N6WW	W/VE Low power (cw)	<b>N5AW/1</b>	Ak-Sar-Ben Amateur Radio Club, Inc.
West Coast Big Gun (14 MHz west of Mississippi)	<b>WA7GVM</b>	Larry Pace, N7DD	U.S. Ø Call Area (phone)	<b>WØEJ</b>	Tom and Jan Middleton, WB4CKY
Canada (cw)	<b>VE3IY</b>	CANAD-X	U.S. 4th Call Area (cw)	<b>N4RV (N3TR)</b>	Herb Twitchell, W6BL
Japan (phone)	<b>JA1ELY</b>	Western Washington DX Club	Middle East (cw)	<b>HZ1HZ</b>	Jess Guaderrama, W6LEN
Japan (cw)	<b>JA1BWA</b>	Tom Morrison, K5TM and Randy Thompson, K5ZD	Japan (15 meters cw)	<b>JH1BBU</b>	Armond Noble, N6WR
W/VE Operator (combined)	<b>K1JX</b>	<i>National Contest Journal</i>	Australia (phone)	<b>VK4VU</b>	Jay Carr, W6FAY
Europe 3.5 MHz (cw)	<b>EA2OP</b>	South Florida DX Assn.	Australia (cw)	<b>VK3AEW</b>	Arturo Gigante, HI8GB
U.S. 8th call area (phone)	<b>K8AZ</b>	Livonia Amateur Radio Club, Inc.	Caribbean Resident	<b>HH2VP</b>	W5QBM Joe Johnston Memorial The YASME Foundation, Inc. Steve Place, WB1EYI
Japan (combined)	<b>JA1ELY</b>	Northern California Contest Club	Multioperator	<b>VP2E</b>	John Minke, N6JM
Europe (3.5 MHz phone)	<b>CT1FL</b>	W3LKG Memorial—K3ND and Family	Caribbean (phone)	<b>FMØFOL</b>	Long Island DX Assn. in memory of Howard Geberth, W2NUT/1
Poland (combined)	<b>SP3DOI</b>	Rich Assarabowski, K1CC	Most Improved Club	<b>Murphy's Marauders</b>	
Dominican Republic (phone)	<b>HI8GB</b>	Jose Barecelo, HI7UP	Contest DXpedition (cw)	<b>FMØFOL</b>	
			Contest DXpedition (phone)	<b>VP2E</b>	



Gustavo, CT2CY, used his Swan 350 and a dipole antenna in a 20-meter monoband phone effort from Sao Miguel Island in the Azores.



W3XU handled 15 meters for K2UA, who ended up at the top of the heap on cw for multi-multi stations.



4X6DX, Seth, put in 48 hours on 20 meters in the phone weekend and emerged as the top Asian 14-MHz operator.

## SOAPBOX

**DX** — We ran into a little trouble during the contest on Sunday afternoon. It seems that we mixed up the feed lines on the 10- and 20-meter beams so that for about six hours we were on 10 meters with the 20-meter antenna beaming to the *Indian Ocean*. Unbelievable! (I3ON). We welcome back the old ARRL DX Contest rules . . . We are convinced that this is the number one contest for those who love to contest (JA3ODC/JA3YKC). At 14 years of age, I am the youngest Advanced class ham in Israel and also hold the call sign, N2BZQ . . . This was my first contest, and I hope that I did well (4X6DX). [You did real FB, Seth. You turned in the number one Asia 20-meter phone score. — Ed.] Conditions during the contest were good to the East Coast and spotty to W5 and WØ. Didn't hear anything from W7 though (DK8FS). I can boil down my feelings about this contest to this simple equation: FB condx + good rig + poor antennas = by best results ever (OK2BLG). Just running a vertical antenna and a barefoot rig, so couldn't keep the pile-ups going. Fortunately, there was a multi-single operation up on the hill that made about 3500 QSOs and helped fill the need for the Easter Island multiplier (CEØAE). Poor Hawaiian and Alaskan stations! Please include KH6s and KL7s as "new states" next year (YB2SV). As a longtime competitor, I am delighted that the old form of the contest has been restored, with W/VE stations at the focus of it. That has restored the unique zest and pace of this contest. By the second day, most competitors (including myself) were using the rubbishy 599. I urge you to replace the report with a serial number, irrespective of movement among the bands, starting at 001 and restarting after each 999. The exchange would then again have meaning (G2RO). A lot of you W and VE stations have very good ears — you had to hear my weak signal (JF2BDK). See you next year from some other DX QTH. Once you get a taste of the other side, it's hard to quit (K8ZH/6Y5). We had a lot of problems with interference between stations at our multi-transmitter/multi-operator site. We will try to correct this for next year's contest (JH1CNT/JF1ZRQ). There is no electricity on my island so I can't use a linear amplifier. I do have an old generator that sometimes works and sometimes doesn't. This time I used only automobile batteries to power my five-watt rig. I try again next year and hope that the ice is thick enough to drive over to my island. This year we had to walk because the ice was only 2 inches thick (OHØPA). One of our operators (GW4DZE, Lin) worked 36 out of the 48 hours, surviving on a diet of curried beef, boiled rice and coffee (GW4KHQ). After spending a wet afternoon threading a 160-meter dipole through some trees, we were a little disappointed that we didn't even hear anything on that band. However we got some comfort from N6CW who said that we were the only Europeans he heard on 80 meters . . . Our peak



The Man, himself, HH2VP, number one score in the 1981 cw contest. That 2.5-million point score came from 200 watts to a trap vertical antenna and a 160-meter dipole — and from 33 hours of hard operating time.



K2YY (I) conducts a pre-contest strategy meeting with host VP2MF. John kept his composure throughout and turned in the top phone score, worldwide. FB!

### Top Ten, Phone — Single Operator

W/VE	Score
K1VTM (K1JX)	2,447,550
K1KI	2,443,404
W9ZRX	1,870,848
N3BB	1,847,055
W2YV	1,648,290
N7DF	1,555,245
VE7BT	1,388,004
N2LT	1,298,232
KD6PY	1,292,004
K1LL	1,287,600
<b>DX</b>	
VP2MP (K2YY)	5,449,095
N1GL/VP9	4,092,300
TG9GI	3,969,252
EL2AV	2,548,665
KH6NO	2,156,952
I6FLD	2,118,675
KH6BZF	1,948,089
KH6ND	1,920,702
SP3DOI	1,576,800
VK4VU	1,416,564

### Top Ten, CW — Single Operator

W/VE	Score
W2PV (N2NT)	2,007,936
K1VTM (K1JX)	1,832,436
K1BW	1,814,127
KØRF (WØUA)	1,762,713
K1AR	1,717,455
N2LT	1,669,221
K3LR	1,556,415
N3BB	1,550,640
W2RQ	1,448,172
AE2A	1,333,284
<b>DX</b>	
HH2VP	2,564,298
W1BIH/PJ2	2,498,688
VP2VI (WØDX)	2,473,688
EA2IA	2,302,977
OZ1LO	2,010,663
KH6ND	2,003,637
9Y4VU	1,651,545
KH6NO	1,562,340
SP3DOI	1,461,438
5T5CJ	1,330,035

### Division Leaders — Single Operator

Phone	Division	CW
N3BB	Atlantic	K3LR
W9ZRX	Central	A19J
KØDD	Dakota	KBØRC
W5XZ	Delta	K4XU
K8AZ	Great Lakes	WA8YVR
W2YV	Hudson	W2PV (N2NT)
WØEJ	Midwest	KBØRC
K1VTM (K1JX)	New England	K1VTM (K1JX)
K7WQD	Northwestern	K7NHV
KD6PY	Pacific	N6MG
N4UH	Roanoke	N4RV (N3TR)
N7DF	Rocky Mountain	KØRF (WØUA)
WA4FBH	Southeastern	K4BAI
N6AR	Southwestern	K6NA
N5IH	West Gulf	K5NW
VE7BT	Canada	VE3IY

### Affiliated Club Competition

Unlimited Class	Score	Entries	CW Winner	Phone Winner
<b>Frankford Radio Club</b>	106,823,216	126	N2LT	N3BB
Yankee Clipper Contest Club	87,012,597	99	W2PV (N2NT)	W2YV
Potomac Valley Radio Club	53,155,632	64	N4RV (N3TR)	N3RL
Northern California Contest Club	44,774,432	65	N6MG	N6BV
<b>Medium Class</b>				
<b>Murphy's Marauders</b>	21,572,634	25	K1VTM (K1JX)	K1VTM (K1JX)
North Texas Contest Club	20,435,845	46	K5NW	K5NW
Mad River Radio Club	18,342,981	13	K3LR	K8AZ
San Diego DX Club	11,387,442	13	K6NA	WA6EJL
Texas DX Society	10,245,975	16	KN5H	K5DX
Colorado Contest Conspiracy	8,039,529	9	KØRF (WØUA)	WØZV
Wireless Institute of the Northeast	7,827,522	17	W2RQ	W1GD
Kansas City DX Club	6,949,128	21	NØTT	WBØISW
Southern California DX Club	6,491,659	14	N6AA	N6AR
Western Washington DX Club	6,360,384	36	W6RR	K7WQD
Willamette Valley DX Assn.	5,836,818	12	W7NI	W7EJ
Northern Illinois DX Assn.	4,752,513	20	A19J	A19J
Northern California DX Club	4,630,179	35	N6AN	N6OJ
Flyweight DX Group	3,442,799	16	N4DW	AB4H
Eastern Iowa DX Assn.	3,247,526	20	WØEJ	WØEJ
Southeastern DX Club	2,806,836	19	AA4NC	WA4FBH
Michigan DX Assn.	2,609,772	11	K8GL	W8TWA
Northern Ohio Amateur Radio Society	2,542,242	28	K8US	N8ATR
Rochester DX Assn.	2,143,596	17	W2TZ	W2TZ
Gloucester County AR Club	1,832,916	13	W2YC	K2SNK
North Alabama DX Club	1,705,172	11	N4KG	WN4KKK
South Jersey Radio Assn.	1,490,889	23	WB2BYU	WA2NBM
Order of Boiled Owls—NY	1,465,512	5	K2LE/1	—
Fort Wayne Radio Club	1,273,828	14	K9TUS	W9LT
Grumman Amateur Radio Club	1,025,361	12	WA2LQQ	W2INJ
Alamo DX Amigos	1,005,540	11	W5DV	W5DV
Four Lakes Amateur Radio Club	876,284	12	—	K9QXY
Columbus Amateur Radio Assn.	858,495	15	W8ELE	W8DWP
<b>Local Class</b>				
<b>Ill Wind Contesters</b>	12,093,828	9	AF9C	N9AEJ
Central Virginia Contest Club	9,348,468	4	—	—
Fraser Valley DX Club	4,319,349	10	VE7BT	VE7BT
Red Stick DX Assn.	4,041,897	8	WA5IGD	W5XZ
Central Arizona DX Assn.	3,233,814	7	N7MW	W9FI
Halifax Amateur Radio Club	3,117,441	5	VE1AIH	—
Point Radio Operating Society	3,084,285	7	K3MD	—
Mississippi Valley DX/Contest Club	2,874,396	10	K9BGL	KBØRC
Albuquerque DX Assn.	2,786,493	5	—	W5JW
Southern California Contest Club	2,739,057	3	W6AM (N6TJ)	—

came at 1500-1600Z on 10 meters on Saturday when our QSO rate climbed to 155 (GU4CHY, GU3MBS, N6RA/GU3HFN). When going through the logs, one can see that far too many dupes were worked (238 dupes in 3186 QSOs). We never call any stations but try to hold a frequency and work the pile-up. Therefore, it's the stations that are calling us who are causing the dupes. This situation has been getting worse in the last couple of years and applies mostly to W stations, not to JAs or any others. It used to be that you almost never duped a W station. I think it calls for a very strong reminder from the contest manager (SM2EKM/SL2ZZU). [Good point, Jim. Consider the reminder given. There is no reason that someone going around calling stations cannot keep up the dupe sheet. — Ed.] Our DXpedition to St. Vincent coincided with the contest, and we decided to give it a try. As a string of 600-foot hills surrounded our rented house on three sides, including the side toward the U.S., we borrowed a battery from VP2SQ (now J88AQ) and lugged it, the rig, antenna tuner and rest of the gear to the top of the ridge for the phone contest. With 90° heat, high humidity and that sun directly above our heads, you can only imagine the dedication needed to drag that gear and ourselves up the hill (WB1ABF, W1JP, K11JU/J87BM). All W6s please QSL via the bureau for NCDXC Award (GM4FDM). I was surprised that Mississippi should be the rarest one, had rather expected Nevada, N. Dakota or Rhode Island to be the difficult ones (DJØIV). Surprising what a pile-up one can get on cw from the Caribbean (K4LTA/ZF2EX).

W/VE — I think that I burned a hole in JA land with only the 200 watts to a vertical (KA3FMH). The contest "bug" sure bites hard. A week after the contest, I was laid up for four days. Gave me time to do my logs (KB8PK). Never had this good a percentage before. Worked 39 out of 40 called (WA8FCH). Sorry

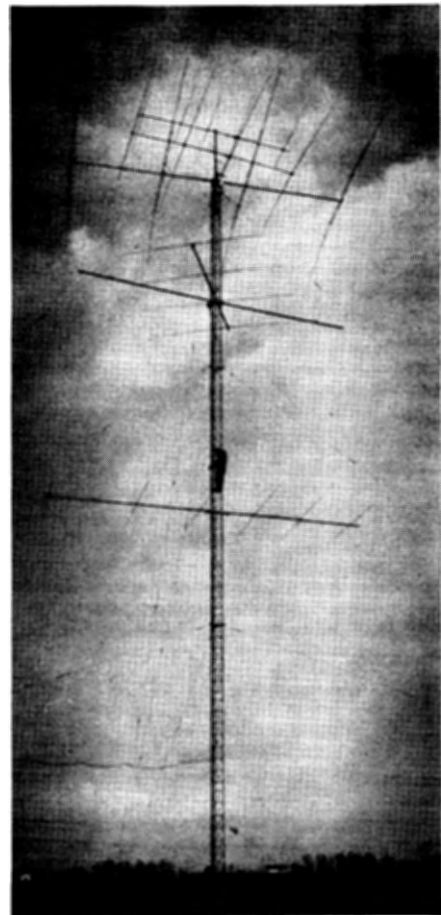


K1XA (front) and AA2Z at the K1XA multi-single cw effort. (WB1EYI photo)



G4GIR smoked the rest of the competition to win the 10-Meter CW DX Plaque.

Local Class	Score	Entries	CW Winner	Phone Winner
Greater Milwaukee DX Assn.	2,216,463	6	—	W9GIL
Overlook Mountain AR Club	1,834,822	7	—	WB2NFG
Milford Amateur Club	1,791,927	5	—	K8CMO
Lynchburg Amateur Radio Club	1,374,945	8	N4UA	NI4R
Neenah-Menasha AR Club	1,337,016	5	—	W9OP
Rubber Circle Contest Club	1,236,068	7	K7UU	N7ABJ
Long Island DX Assn.	1,130,118	9	K2MFY	KA1DS
DX Assn. of Connecticut	1,040,343	8	WA1CCR	K1WJ
Eastern Michigan AR Club	909,360	6	N8BKO	AC8W
Meriden Amateur Radio Club	775,917	4	W1KKF	—
Redwood Empire DX Club	619,506	6	N6OJ	—
Montgomery Amateur Radio Club	508,830	4	WA3NQJ	KC3H
Dauberville DX Assn.	475,923	9	—	KA3ARQ
Western Illinois AR Club	475,218	3	—	N9GB
Sheboygan County DX Assn.	463,950	4	—	KE9A
Split Rock Amateur Radio Assn.	423,900	7	KD2G	KD2G
Kansas DX Assn.	421,401	5	—	WA0TKJ
Northern Ohio DX Assn.	418,728	9	WD8MOV	WD8KKF
Hollywood Amateur Radio Club	363,687	3	—	—
Lincoln Amateur Radio Club	354,552	4	—	K0GND
Natchaug Amateur Radio Assn.	348,672	4	—	WB1C8Y
Central Florida DX Assn.	297,528	4	—	—
Ventura County Amateur Radio Club	285,009	6	—	WA6DJS
Radio Amateur Club of Knoxville	283,821	6	—	KA4RJC
Mitre-Bedford AR Club	282,306	6	—	W1FM
Long Island Mobile AR Club	255,459	8	—	WA2JCX
Greater Lansing DX Group	250,778	7	—	WB8YQX
Ohio Valley AR Assn.	240,954	4	W8GOC	—
Southern New England DX Assn.	239,226	4	—	—
Winnipeg DX Club	197,490	3	—	—
St. Cloud AR Club	172,803	3	—	—
Motor City Radio Club	169,089	6	—	K8SIA
Longview Amateur Radio Club	168,198	3	—	—
Radio Association of Erie	158,277	3	—	—
Stamford Amateur Radio Assn.	156,321	4	—	—
Carbon County AR Club	155,589	5	—	WB3JYY
Lake Success Radio Club	132,039	8	WA2ISH	W2NBI
Saginaw Valley AR Assn.	103,281	6	—	WB8AYW
Arinc Amateur Radio Club	93,147	6	W3HVQ	W3PWC
Southington AR Assn.	72,948	4	—	WB1BVQ
Reading Radio Club	63,819	6	WA3JXW	WB3EPW
San Angelo Amateur Radio Club	47,688	3	—	K1DWQ/5
Chicago Radio Traffic Assn.	28,111	4	—	—
Columbus Amateur Radio Club	13,044	3	—	—
Rockford AR Assn.	11,847	3	N9UN	—
Larkfield Amateur Radio Club	9450	3	—	—



The multi-single cw station at AD8P includes: 5 elements on 10 meters at 115 feet, 4 elements on 20 meters at 110 feet, 4 elements on 40 meters at 105 feet, 4 elements fixed on Japan at 87 feet, 2-element delta loop on 80 at 85 feet, 6 elements on 10 meters fixed on Europe. A second tower (not shown) has 6 elements on 15 meters at 55 feet and is shunt fed for 160 meters.

### DX Continental Leaders — Phone

	Africa	Asia	Europe	North America	Oceania	South America
All band	EL2AV	JA1ELY	I6FLD	VP2MP	KH6NO	PP2ZDD
28 MHz	ZS6HZ	JH7FMJ	I0MGM	FG0FOO/FS	ZL1AAS	ZZ5EG
21 MHz	S83T	JH1BBU	YU3TU	H18GB	DU1EFZ	CE3TK
14 MHz	—	4X6DX	OH2MM	HT5JAR	ZL1AXB	YV4BOU/2
7 MHz	ZS6DW	JA2BAY	I5NPH	FM0FJE	—	OA4AWD
3.5 MHz	—	JA1BTB	CT1FL	H18PGG	—	ZP5PT
1.8 MHz	—	—	—	H18JAG	—	—
QRP	—	JA0BMS/1	I5NSR	—	KH6CP	OA8V
Multi-single	EL9A	JA2YKA	CT2ARA	VP2E	ZL3BK	W4PRO/CE0
Multi-multi	EA9IE	JA7YAA	G4ANT	—	—	—

### DX Continental Leaders — CW

	Africa	Asia	Europe	North America	Oceania	South America
All band	5T5CJ	JA1BWA	EA2IA	HH2VP	KH6ND	W1BIH/PJ2
28 MHz	EA9GT	JH1EDD	G4GIR	—	KG6DX	LU2KAK
21 MHz	—	JH1BBU	TF3YH	—	KH6JWK	PY8ZLC
14 MHz	EA9GK	UA0SAU	OH5TQ	HP1XPA	—	PY1BOA
7 MHz	ZS5VP	JA1KSO	YU4FRS	KP4EQF	K8CW/KH6	YV4BOU
3.5 MHz	EA8RL	JA1SJV	EA2OP	KP4EHP	VK3XB	HK3YH
1.8 MHz	—	JA1BK	OK3CPL	—	—	—
QRP	EA8EY	JA1MCU	G4BUE	—	KH6CP	OA8V
Multi-single	TL8WH	JA7YAA	DL0AA	FM0FOL	KH6IFY	—
Multi-multi	—	JF1ZRQ	OH1AF	NL7M	—	—

for late log. Parents say school comes first (KB7G). I live only 300 yards from K6RU — band overload for both of us. I actually got Cam Pierce (yes, *THE* Cam Pierce) to take notice of my measly little operation. Overload hurt both of us, but we tried to stay apart and bring the QRM down to S-6 . . . If any stations from Northern California do really well, I will be shocked. Low rates to JA and low multipliers really hurt me. The W1s and W2s should take this one — no sweat (N6BZA). It took a lot of calling to get my 37 QSOs, but it was all worth it when N0NO/CE0 on Easter Island answered my two-watt signal for my first QSO with Easter Island in 26 years of hamming (W8EAO). My only complaint in the whole contest is how the BIG GUNS try to edge you off the frequency to try to work the station that you just finished working. They just call right over you (WB1CNM). Contest highlights. WA8MEC answering a DX "CQ" then getting halfway through the QSO DE K8 B4 and K8B4 got a 599 200. Blowing the moisture off the quarter-wave 80/half-wave 40 vertical tuner with the SB-200. Better than a hair dryer. Beating K8LX in a 40-meter pile-up (K8DD).

### FEEDBACK

Please note the following corrections to the 1980 ARRL International DX Contest on pages 76-89 of October 1980 QST. Add K3WS to the list of single-operator stations on cw, 15 meters only in the Maryland/DC Section. Credit Bill with 114 QSOs and 53 multipliers, running over 200 watts for a total score of 17,808 points. This makes K3WS the 15-meter monoband winner in Maryland/DC. WB8JBM (WB8DQP, opr.) should be listed as the phone winner for the Northern Ohio ARS. Finally, K0VUW, not K0WM, is the phone certificate winner for the Mississippi Valley DX and Contest Club.

### WVE Area Leaders (QSOs/Multipliers)

#### Phone

Single Operator	160	80	40	20	15	10
K1VTM (K1JX)	4/4	60/42	122/50	485/86	737/93	801/98
W2YV	5/5	60/38	82/50	388/80	593/80	517/81
N3BB	—	39/11	83/45	187/71	513/91	973/107
K4XU	—	13/13	24/16	230/75	217/80	626/91
N5IH	—	24/18	75/40	183/60	395/75	877/82
KD6PY	1/1	50/15	275/30	159/60	536/59	680/77
N7DF	7/7	27/19	178/26	195/62	855/69	771/72
K8AZ	2/2	22/22	45/37	265/73	291/76	481/80
W9ZRXX	11/10	30/26	97/52	202/74	608/98	846/88
WØEJ	4/4	27/22	24/21	268/63	274/77	497/75
VE7BTV	—	21/11	23/16	230/57	1196/73	692/57
<b>Multi-single</b>						
KØRF	4/4	63/42	517/65	398/102	1335/100	797/102
<b>Multi-multi</b>						
W2PV	19/14	167/72	211/73	1379/136	1726/142	1269/125

### WVE Area Leaders (QSOs/Multipliers)

#### CW

Single Operator	160	80	40	20	15	10
K1VTM (K1JX)	3/3	108/41	392/46	676/69	477/61	510/62
W2PV (N2NT)	3/3	114/56	308/58	599/70	497/68	495/76
K3LR	6/6	45/37	318/60	445/69	376/62	615/71
N4RV (N3TR)	3/3	51/32	118/41	452/48	407/55	521/66
K5NW	1/1	21/16	163/52	286/69	296/61	319/60
K6NA	—	44/13	287/46	170/53	196/53	465/68
N7DF	3/2	25/17	273/36	280/56	628/51	486/50
WA8YVR	—	21/17	150/40	543/79	356/50	484/53
A19J	—	53/31	110/39	446/59	318/53	495/67
KØRF (WØUA)	4/4	101/32	422/46	378/61	559/66	627/72
VE3IY	—	55/39	118/48	531/79	353/62	443/60
<b>Multi-single</b>						
K5RC	9/9	71/54	381/68	779/108	519/84	840/80
<b>Multi-multi</b>						
K2UA	20/18	240/71	792/97	1436/112	1180/89	985/97

### DX Continental Leaders (QSOs/Multipliers)

#### Phone

Single Operator	160	80	40	20	15	10
EL2AV (no QSO breakdown)	—	/26	/34	/50	/55	/52
JA1ELY	—	87/21	162/39	392/52	500/54	759/57
I6FLD	—	34/12	100/25	1379/57	717/55	1215/56
VP2MP (K2YY)	25/14	381/53	459/53	834/55	2112/57	2474/57
KH6NO	8/4	284/46	235/46	514/53	418/50	1317/55
PP2ZDD	—	—	20/18	338/56	471/47	800/54

#### Multi-single

VP2E	195/47	524/56	699/56	1394/57	2782/57	4196/57
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#### Multi-multi

G4ANT	—	109/22	499/44	1043/55	1328/56	2022/55
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#### CW

##### Single Operator

5T5CJ	—	294/45	366/50	312/47	442/51	441/46
JA1BWA	—	65/27	90/34	564/53	348/50	586/53
EA2IA	—	211/37	317/52	903/56	821/56	735/56
HH2VP	143/36	454/53	456/53	550/51	511/51	764/53
KH6ND	46/28	286/49	387/49	473/54	575/53	544/56
W1BIH/PJ2	64/26	368/48	338/49	678/56	641/55	803/54

#### Multi-single

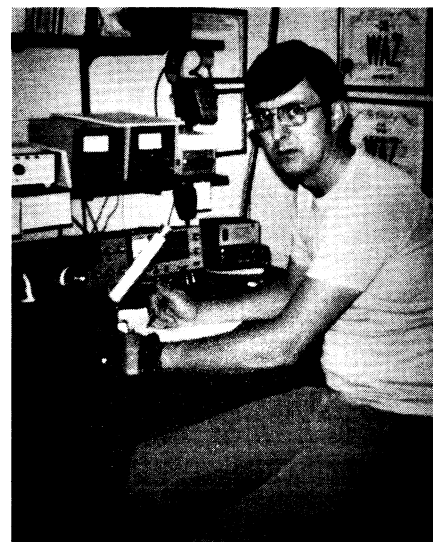
JA7YAA	9/4	171/37	457/52	941/55	952/55	996/55
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#### Multi-multi

NL7M	—	165/35	465/48	923/56	1124/56	1280/55
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### SCORES

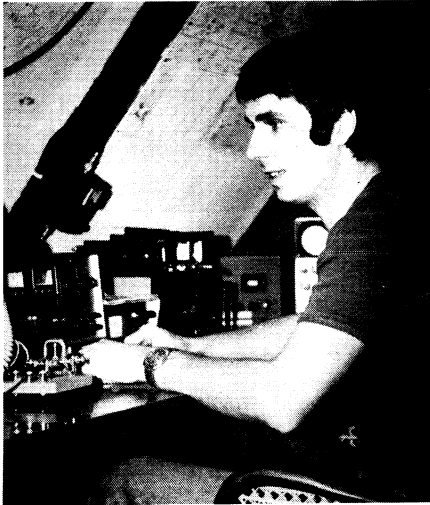
The scores are listed by mode — phone or cw. Within each mode there are continent and country subdivisions for DX stations and ARRL Section headings for W/VE participants, single-operator stations only. Under each subheading, scores are listed in descending order by category, all band first, 160-meter monoband next, followed by 80-meter monoband entries, then 40-, 20-, 15 and 10-meter monoband scores, with QRP entries listed last. The individual linescore gives call sign of the station, the total score achieved by that station, number of contacts, number of multipliers, a letter that indicates the greatest level of power used by that station (where A indicates up to 10 watts of input power, B means greater than 10 watts but 200 watts or less, and C means that a power input of over 200 watts was used). A sixth column is used to indicate the entry category of the station (single-operator stations only). AB indicates single-operator, all band, 160 for 160-meter monoband, 80 for 80-meter monoband, 40 for 40-meter monoband, 20 for 20-meter monoband, 15 for 15-meter monoband and 10 for monoband operation on that band. QRP is for 10 watts or less of input power (5 watts output), of course. The sixth col-



Larry, K1UO, W/VE 10-meter plaque winner on phone.

### W/VE Low-Power Leaders (200 W or less)

Phone	
W2TZ	534,303
N2GC	366,378
N5AW/1	344,223
VE6MP	311,928
KA10	303,510
WB2TCQ	282,150
AA4KT	253,308
VE1CCC	252,297
KX4R	247,464
W3ARK	245,784
<b>CW</b>	
N5AW/1	698,000
W2TZ	644,170
N2GC	545,664
N4HI	538,740
K2MFY	439,587
WØUC	425,862
W7YAQ	356,706
W3ARK	349,641
K2PH	334,368
VE2WA	289,980

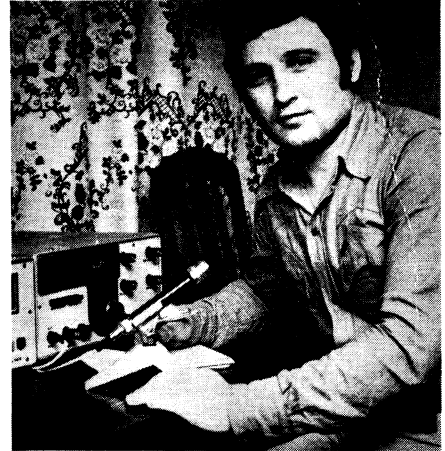


DJ1XT — all-band cw.

multiplier category indicator is listed only for the first occurrence of that particular category. All the entries that follow are assumed to be in that same category until a change is indicated in that sixth column.

Example: Let's take the W/VE-phone, single-operator listings in the first U.S. call area in the Connecticut Section. K1VTM, with K1JX as operator, is the first listing. He has a score of 2,447,550 points, 2205 total QSOs, 370 multipliers, runs "C" (greater than 200-watts input) power and is in the all-band category. Since there are no changes in the sixth column, all the following calls up to K1XA are also all banders. K1XA's score is indicated as a 40-meter monoband entry, as are all those below his until we come to K1RM, whose 141,960 points represent a 15-meter-only entry. The next change occurs with the K1TN (AAZZ, operator) 10-meter-only score. The next nine scores listed are also 10-meter monoband scores and end when we come to WB1CCH, the only QRP phone entry from Connecticut. Multioperator, single-transmitter entries are listed under U.S./Canada in descending order by call area only (with ARRL Section indicator in the last column of the score) and by continent and country for DX stations.

Multioperator, multi-transmitter scores are separated by country and listed in descending score order. W/VE multi-multis have an ARRL Section indicator tacked onto the end of the linescore.



SP2FAP home-built this 100-watt rig, coupled it to a W3DZZ antenna and made over 11 kilopoints in the all-band category on phone.

**W/VE - PHONE**

**Single Operator**

**1**

**Connecticut**

**K1VTM(K1JX,opr)**  
 2,447,550-2205-370-C-AB  
 K1KI 2,443,404-2044-397-C  
 NSAW 344,223-549-109-B  
 W1WFEF 281,052-633-148-C  
 AKIN 274,482-663-138-C  
 K1VDF 159,390-385-138-C  
 KA1ADS 150,639-337-149-C  
 K1W 125,208-296-141-B  
 KIDD 106,590-323-110-B  
 AK1B 103,563-311-111-B  
 KN1DPS 94,713-241-131-C  
 K1JW 91,324-263-116-C  
 KIBOF 68,100-227-100-C  
 K1WB 64,614-242-89-C  
 WA1CCR 57,750-175-110-C  
 W1VV 48,267-173-93-C  
 W1DO 30,000-100-100-C  
 W1VW 25,523-117-73-C  
 W1BICRH 60,400-50-48-B  
 KICE 5400-75-24-C  
 K1VSC 5265-45-39-B  
 KA1AUC 4320-38-31-B  
 WB1FVO 3078-38-27-B  
 AB1U 2880-64-15-B  
 K1XA 37,620-190-66-C-40  
 WB1EAZ 10,350-75-46-C  
 W1BWS 1197-21-19-C  
 K1RM 141,960-305-108-C-15  
 K1A1V 93,285-305-108-C  
 W1CH 40,512-211-64-C  
 KA1DZV 36,720-204-60-C  
 WB1DTY 4464-48-31-B  
 K1WA 297-11-9-B  
**K1TN(AA2Z,opr)**  
 503,504-1448-116-C-10  
 WB1CBY 137,448-552-83-B  
 WA1FCN 108,000-450-80-C  
 K1E1F 82,656-336-82-C  
 WA1LOU 63,279-267-79-C  
 WB1BVQ 49,140-252-65-B  
 WA2HXV 34,503-217-53-B  
 W1GVZ 10,464-109-32-B  
 W1HJE 4320-38-31-B  
 W1CNU 144-12-8-B  
 WB1CCH 13,617-89-51-A-QRP

**Eastern Massachusetts**

KA1R 1,028,880-1429-240-C-AB  
 W1IHN 396,258-626-211-C  
 KA1GG 178,263-683-87-C  
 W1PST 226,872-548-138-C  
 W1FM 146,550-360-138-B  
 K1XM 116,610-299-130-C  
 AD1Z 83,385-255-109-C  
 KB1Q 63,315-201-105-C  
 N1ABX 23,240-10-8-B  
 KA1CEI 34,314-133-86-B  
 WA1YV 17,250-115-50-C  
 KA1EKR 42,421-160-69-C  
 WB1DFV 3690-41-30-C  
 W1ZF 363-11-11-B  
 W1BF (K8UR,opr) 60-5-4-B-160  
 W1CF (A8BV,opr) 41,736-188-74-C-80

**Maine**

KA1CVM 188,088-461-136-C-AB  
 WA1DIO 96,300-300-107-B  
 W1GX 33,120-160-69-C  
 KA1CNI 3162-34-31-B  
 KA1CPN 300-10-10-B  
 KB1B 70,222-304-77-C-15  
 K1UO 605,694-1711-118-B  
 KA1AIF 7665-73-35-B  
 W1CTR 594-18-11-B

**New Hampshire**

K1LL 1,287,600-1480-290-C-AB

**K1QG(K1DG,opr)**

1,160,352-1224-316-C  
 W1PH 652,944-892-244-C  
 WA1TZV 406,386-642-211-C  
 WA1W 306,510-670-161-B  
 W1RR 158,256-471-112-C  
 KA1IM 114,660-294-130-B  
 N1NH 38,394-158-50-C  
 KA1BXN 18,972-124-51-B  
 W1ICU 6144-64-32-B-10  
 W1GMM 3588-52-23-B  
 N1BBV 274,500-500-183-A-QRP

**Rhode Island**

WA1BYE 215,358-502-143-C-AB  
 WB7NRE 84,042-322-87-C  
 K1VJ 98,496-288-114-B  
 W1RFQ 77,952-232-112-C  
 KA1CDW 101,088-432-78-C-10

**Vermont**

W1KQ 31,680-220-48-C-10

**Western Massachusetts**

K1ST 1,028,166-1102-311-C-AB  
 W2TA/1 792,480-1016-260-C  
 K1BW 549,822-689-266-C  
 KA1BBD 22,557-103-73-C  
 N1AD 12,648-56-36-C  
 WB1HIH 3072-32-32-A-QRP

**2**

**Eastern New York**

W2YV 1,648,290-1645-334-C-AB  
 K2XA 940,155-1165-269-C  
 KB2CR 330,096-529-208-C  
 K2OH 199,398-388-167-C  
 N2BI 115,008-360-108-B  
 N2JJ 95,106-262-121-B  
 WB2NFG 60,720-220-92-B  
 W2W 26,880-125-70-C  
 W2IB 19,305-99-65-C  
 KB2FC 10,320-86-40-B  
 K2MM 9752-68-48-B  
 WB2LS 6848-47-24-C  
 WB2KHE 4800-50-32-B  
 KA2HZN 4050-45-30-B  
 K2NA 90-90-5-B-160  
 KF2O 11,340-90-42-C-40  
 W2KHQ 10,449-81-43-B-20  
**W2SZ(N2AL,opr)**  
 122,706-401-102-C-15  
 W2SI 57,700-229-84-C  
 WB2THN 46,575-207-75-C  
 K2IBW 38,610-195-66-C  
 KA2DYG 4704-56-28-C  
 N2BI 6426-34-34-B-10  
 WB2NXF 3120-52-20-C  
 W2CRS 143,748-363-132-A-QRP

**New York City - L.I.**

WB2SJK 1,249,740-1310-318-C-AB  
 N2GC 366,378-538-227-B  
 WB2RCQ 282,650-550-171-B  
 W2MO 261,650-492-84-C-20  
 W2QL 100,224-288-116-C  
 N2UN 80,073-217-123-C  
 WA2JGX 74,945-189-90-B  
 WA2GUR 39,516-148-89-B  
 W2NBI 37,647-141-89-C  
 WB2BK 34,188-147-77-C  
 WB2RKA 35,872-148-77-C  
 W2MT 22,875-125-61-B  
 W2NL 22,572-114-66-C  
 W2R 14,592-76-64-C  
 WA2OVQ 13,356-84-53-C  
 W2A 12,158-102-43-B  
 WB2PIE 11,322-74-51-C  
 K2HTV 8733-71-41-B  
 K2HPV 5700-50-38-C  
 W2MA 5930-59-30-B  
 W2II 2691-39-23-B  
 W2TF 2325-31-25-B  
 WA2SF 1426-23-19-B  
 K2CMI 1423-23-19-B  
 WA2LTP 1242-23-18-B  
 W2CHQ 768-16-16-B  
 WB2FZO(K1EB,opr) 41,520-173-80-C-80  
 WB2AMU 810-18-15-B-40  
 W2A 93,996-373-148-C-20  
 KB2WS 209,790-630-111-B-15  
 WA2SEL 12,600-100-42-B  
 N2RQ 35,292-173-68-C

WA2TQT 5742-58-33-C  
 K2LJH 1650-25-22-C  
 W2YJH 912-19-16-C  
 K2MFY 75,816-351-72-B-10  
 KA2AEV 65,280-68-B  
 KA2DFO 25,308-148-57-B  
 K2PE 21,924-116-63-C  
 W2YJ 18,120-11-11-B  
 K2MZ 351-13-9-B

**Northern New Jersey**

N2LT 1,298,232-1482-292-C-AB  
 N7TY/2 1,265,682-1397-302-C  
 K2NJ 740,592-888-278-C  
 W21FK 686,880-848-270-C  
 W2VJN 459,036-622-246-C  
 W1GD 340,191-513-221-C  
 KD2L 319,920-620-172-C  
 K3OK 305,592-476-214-C  
 KD2G 122,802-422-97-C  
 W2HN 80,598-266-101-C  
 W2ZZ 54,432-189-96-B  
 WA2PID 50,652-252-67-B  
 A1ZK 43,608-158-92-C  
 WB2PGA 41,280-160-86-C  
 WA2PQU 10,080-84-40-C  
 WA2IFS 15,900-55-34-C  
 K2NJ 6195-59-35-B  
 WB2HJW 12,432-112-37-C  
 WB2UL1 137,000-457-100-C-15  
 WB2FVT 147-7-7-B  
 K2TW 73,800-300-82-C-10  
 KA2BC 40,176-186-76-C  
 W9NTU 4125-55-25-B  
 N2AA 293,760-576-170-A-QRP  
 WB2GYA 15,900-466-87-A  
 K2RF 16,932-83-68-A

**Southern New Jersey**

N2SS 1,054,800-1172-300-C-AB  
 WA2DPU 443,940-755-196-C  
 N2YF 389,640-780-80-C  
 K2SNK 247,414-418-169-C  
 N2VW 241,344-439-192-C  
 K2PF 34,891-131-70-C  
 WA2NBM 191,920-369-173-C  
 W2FY 169,920-354-160-C  
 K2QJ 151,248-368-137-C  
 WB2LS 149,670-316-116-C  
 WB2YOF 147,600-400-123-C  
 WB2BYU 114,840-290-132-B  
 KN2DO 75,705-245-103-C  
 WA2AU 48,670-181-90-C  
 W2BLV 43,452-142-102-B  
 K3DYX 22,764-132-56-C  
 WA2PQ 34,428-151-76-C  
 WB2RF 28,470-146-65-B  
 KA2BWC 25,830-123-70-C  
 W2UBS 25,308-111-77-C  
 K2KA 24,024-104-76-C  
 K2J 21,600-100-75-B  
 N2YU 15,900-67-53-B  
 WB2SJI 14,976-78-64-B  
 W2XN 13,224-76-58-C  
 K2HPV 12,600-100-42-B  
 AC2J 144,060-343-140-C  
 N2RG/2 10,032-76-44-B  
 WA2NPD 6834-67-34-C  
 W2R 6827-30-30-C  
 AF2G 504-14-12-C  
 WB2VFT 2028-26-26-C-80  
 WB2JWL 4752-200-76-B-20  
 W2O 7020-90-53-B  
 WA2WS 21,150-150-77-C

**Western New York**

W3HKK 857,526-1091-262-C-AB  
 W2TZ 534,303-771-231-B  
 AC2J 144,060-343-140-C  
 WA2BDW 133,488-412-208-B  
 W2RRP 65,805-205-107-B  
 KB2SE 35,805-155-77-B  
 W2V 32,610-149-75-B  
 W2FUI 26,703-129-69-B  
 WA2EQQ 16,320-80-68-C  
 K2G 1476-7-7-B  
 K3GJ/2 11,700-75-52-C  
 N2F 147-7-7-B  
 N2LU 11,388-73-40-B  
 KB2SG 78,408-297-86-C  
 WA2RLQ 57,600-200-99-C  
 K2VNU 113,145-397-95-C-15  
 WA2PVA 37,854-148-75-B  
 K2VW 147-7-7-B  
 W21J 243,600-812-100-C-10  
 K2SPO 30,723-133-77-C

**N2CBS 11,400-100-38-B**

**3**  
**Delaware**  
 W3GL 320,850-465-230-C-AB  
 W3WD 156,087-369-141-C  
 W3HDP 142,044-681-88-B-10  
 K3JL 43,011-243-59-C  
 AC3T 13,338-78-57-A-QRP

**Eastern Pennsylvania**

N3BB 1,847,055-1995-343-C-AB  
 K3ZUF 897,756-947-316-C  
 W3AP 746,334-918-271-C  
 K3FN 467,280-590-264-C  
 WA3NHO 436,278-817-178-C  
 W3NCH 417,291-641-217-C  
 W3GK 287,127-523-183-C  
 K3OO 271,440-464-195-C  
 N3HW 255,024-528-161-C  
 W3DHM 251,220-395-212-C  
 W3RKR 109,484-251-142-C  
 K3HP 229,896-412-186-C  
 K4JLD/3 205,296-364-188-C  
 W3EUV 197,532-372-177-B  
 W3R 180,360-360-167-C  
 K3KNN 177,975-339-175-C  
 WB3EAG 161,406-366-147-C  
 W3GRS 147,269-321-183-C  
 WB3KIL 150,120-360-139-C  
 K31 147,339-321-153-B  
 W3AQR 147,339-321-153-B  
 K3IE 146,376-321-152-C  
 WB3VFL 135,750-362-125-B  
 AD3Z 133,620-262-170-C  
 W3NA 109,484-251-142-C  
 W3YFV 122,157-277-147-C  
 AC3A 115,902-289-137-B  
 W3NA 109,484-251-142-C  
 W3ETB 63,600-212-100-C  
 KA3BK 61,692-212-97-C  
 WA3IM 60,720-220-92-B  
 K3D 58,800-230-85-B  
 WB3FPA 57,459-179-107-B  
 WB3DNA 54,378-171-106-B  
 W3B 49,590-174-95-B  
 WB3NQ 49,590-174-95-B  
 K3R 47,259-177-89-C  
 K3KH 31,872-156-64-C  
 WB3YX 26,532-132-67-C  
 WB3EF 25,842-118-73-B  
 K3DYX 22,764-132-56-C  
 WA3YT 19,764-108-61-B  
 WB3EPW 19,716-106-62-B  
 WB3CAC 19,350-150-43-B  
 W3EAN 18,150-121-50-C  
 KB3NE 12,375-75-55-C  
 N3AMY 12,312-76-54-B  
 W3JGL 11,858-58-28-B  
 KB3JJ 4140-46-30-B  
 W3EQA 3960-44-30-C  
 WA3VUE 1656-24-23-B  
 K3D 15376-353-147-C-20  
 WA3JXW 6552-78-28-C-15  
 KA3BTG 5894-58-31-C  
 W3AZ 52,440-390-92-C  
 WA3VPQ 55,476-276-67-B  
 WB3XF 39,396-268-49-B  
 N3AHF 26,100-145-60-A-QRP

**Maryland - D.C.**

N3RL 863,760-976-295-C-AB  
 W3UJ 773,604-1044-247-C  
 K2ITG/3 495,390-674-245-C  
 W3J 282,048-452-208-C  
 W3JPT 205,587-431-159-C  
 W3ICM 174,432-316-184-C  
 KC3H 171,288-366-156-B  
 W3AZ 159,735-353-147-C  
 K3CN 132,354-387-114-C  
 K3SA 131,856-268-164-C  
 WA3VHE 81,000-250-108-C  
 W3HM 77,720-190-92-C  
 K3VY 27,594-126-73-B  
 WA3YKR 14,820-95-52-B  
 N3E 1566-2-2-C  
 W3TUX 6018-59-34-B  
 AG3S 396-12-11-B  
 WB3QCC 52,440-390-92-C-160  
 W3PWO 31,104-128-81-C-10  
 N3API 3726-54-23-B  
 K3DQ 2268-36-23-B  
 WA3JYV 1566-2-2-C  
 W3EXP 12-2-2-C  
 W3EWL 256,074-469-182-A-QRP  
 W3WS 218,592-414-176-A

**Western Pennsylvania**

WB3KXX 207,825-425-163-B-AB  
 AG3H 160,681-329-163-B  
 WA3FAL 62,300-246-85-C  
 W3DKL 58,782-202-97-C  
 K3HFB 51,156-196-87-B  
 K3TJM 40,465-143-93-C  
 W3GJ 39,816-158-84-B  
 WA3UXP 30,954-134-77-B  
 W3HDP 142,044-681-88-B-10  
 K3HL 5220-58-30-B  
 LA4LW/W3 1575-25-21-C-40  
 K3RN 44,810-70-47-C  
 W3WZ 89,640-332-90-C-15  
 WA3PFX 43,326-249-58-B-10

**4**

**Alabama**

K4XH 54,944-144-126-C-AB  
 KR4F 36,666-126-97-C  
 WA4WLB 34,920-120-97-C  
 WB4GX 18,177-83-73-C  
 NA4J 3330-37-30-C  
 WA4KKR 391,776-1232-106-C-10  
 WA4M 89,870-388-77-C  
 WA4VEK 1710-30-19-C

**Georgia**

WA4FBH 576,081-759-253-C-AB  
 K4GFH 339,885-581-195-C  
 KX4R 247,408-474-168-B  
 K4BA 226,884-511-148-C  
 W9KTB/4 151,152-376-134-B  
 KC4GR 78,183-219-119-C  
 AK4T 60,885-205-99-C  
 WA4BU 50,925-175-97-C  
 W4JFL 15,048-88-57-B  
 NA4R 33,408-174-64-40  
 W82F/4 20,496-112-61-C-80  
 K4JPD 7308-58-42-40  
 K4R 80,370-388-77-C  
 K3KG 338,742-918-123-20  
 NA4Z 4200-50-28-C  
 N4RT 193,200-575-112-C-15  
 WA4TPS 47,464-87-88-B  
 W4DXI 53,361-231-77-C-10  
 K4BAM 43,188-244-59-B  
 WB4LM 38,400-251-47-C  
 W4BFR 19,683-81-81-C

**Kentucky**

WA4QM/Q 453,546-681-222-C-AB  
 NA4DS 407,592-629-216-C  
 WB4O 276,705-429-27-C-20  
 NA4D 125,250-324-125-C  
 KA4IDW 55,620-206-90-B  
 WA4YOF 4650-50-31-C-40

**North Carolina**

NA4H 795,249-971-273-C-AB  
 K4KZ 577,584-764-252-C  
 WD4AA 416,070-690-201-C  
 W6NWS/4 173,010-365-158-B  
 NA4M 80,369-29-27-C  
 WD4MVX 40,851-153-89-B  
 W4ZZ 1026-19-18-B  
 W4TLI 31-11-11-B  
 WD4AVY 39,600-200-66-C-20

**Northern Florida**

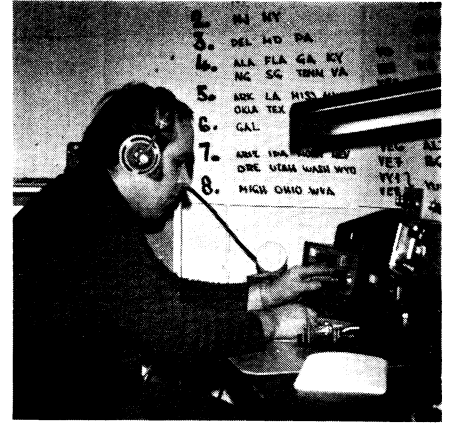
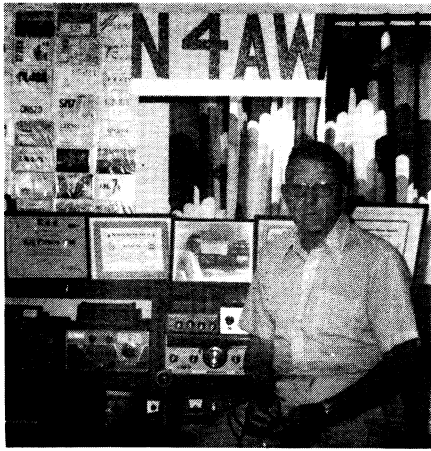
W4WKK 210,222-458-153-C-AB  
 KT4P 201,600-420-160-C  
 AJ2E 171,180-371-180-C  
 WA4AT 77,220-234-110-C  
 WA4SVO 40,896-192-71-C-40  
 WB4KXF 75,884-281-90-C-15  
 W4IIF 25,229-99-67-B  
 NF4L 7560-27-35-B  
 WA4V 2070-30-23-B  
 AA4Q 19,152-112-57-B-10

**South Carolina**

WD4NPN 61,776-198-104-C-AB  
 WA4TNI 2448-34-24-B  
 W4N 297,000-825-120-C-20  
 W1WV/L4 19,398-122-53-C-15

**Southern Florida**

K8UNP/4 328,020-497-220-C-AB  
 WB4M/A 152,460-308-165-C  
 W4PC 65,340-198



N4AW, Albert went monoband (40-meter cw) from Southern Florida.

From the left — K8AQM, WB8ZFB and WA8ARS of the K8AQM multi-single on cw, managed to double their 1980 cw score.

OH5TQ submitted the highest 20-meter cw score from Europe and will be rewarded with a plaque for his efforts.

N4DMI	14,364	84	57-C	K8TD	161,214	554	97-C-10	KA6V	32,580	181	60-C-10	8	WB8BMX	5814	57	34-B			
K4KUZ	12,060	67	60-C	K5IID	129,000	500	86-C	Santa Clara Valley				Michigan							
KA4OCL	9768	88	37-B	KA5BLQ	73,278	354	69-B	KD6PY	1,292,004	1709	252-C-AB	WA8BTQ	928,359	1159	267-C-AB				
WA2VZ	243	9	9-B-160	WSVQX	124,542	374	114-C-QRP	N6BV	1,195,920	1661	240-C	W8UA	818,082	967	282-C				
W25DB/A	14,004	26	11-15	WSSVB	11,766	106	37-A	K6W	570,900	951	200-C	K8SS	450,429	623	241-C				
KCAVA	280,617	1051	89-C-10	Oklahoma				W6GKJ	446,064	708	210-C	AC5Y	334,377	701	159-C				
N4BP	13,392	93	48-A-QRP	NSIH	1,255,650	1522	275-C-AB	W6OKF	279,390	670	139-C	K8BP	205,578	486	141-C				
Tennessee																			
K4XU	915,750	1110	275-C-AB	WSJME	220,008	412	178-C	W6ZSN	121,230	449	90-B	W8BYQX	74,124	213	116-C				
AB4H	477,015	649	245-C	KM5H	32,736	124	88-C	NGUW	45,630	195	78-C	N8AJF	152,847	333	153-C				
KC4OV	269,136	504	174-C	WSVBE	9288	72	43-B-10	WA6TKT	42,804	174	82-C	K8W	108,620	265	136-C				
AA4KT	253,308	418	202-B	Southern Texas				KA6DXN	25,668	186	46-B	W8BYQX	66,420	205	108-C				
K4LVH	224,910	431	170-C	K5DX	625,968	828	252-C-AB	W6ISQ	19,890	102	65-C	K8W	66,420	205	108-C				
KA4RJC	100,500	268	125-B	W5DV	108,174	298	121-C	W5SC	19,200	128	50-C	K8IA	53,298	189	94-C				
WA2WZ	64,728	232	93-C	W5IYX	32,760	195	56-C	KA6IEIX	18,174	233	26-C	W8BRYN	49,686	182	91-C				
WA4TN	59,700	199	100-C	W5KCR	25,773	121	71-B	NGUW	45,630	195	78-C	K8LJC	46,323	147	105-C				
WA4MCZ	54,696	212	86-C	NSHB	18,306	113	54-B	W6ERS	12,672	88	48-C	W8AYW	38,784	202	64-C				
WB4GHZ	24,198	109	74-B	WB5BSB	9720	60	C	NGW	52,875	235	75-C-20	N8BRQ	33,060	145	76-C				
WB4JBP	18,668	102	90-B	KA5N	3420	38	30-B	NGG(WA6HCL,opr)	208,539	799	87-C-15	K8BT	31,365	123	85-C				
KA4AHU	12,483	73	17-B	KC5DU	585	15	13-C	N6BZA	149,760	624	80-C-10	NSAHA	29,718	127	78-C				
KA4FLP	3024	36	28-B	K3WA	1620	30	18-C-40	W6YVK	24,168	212	38-A-QRP	K8BEA	28,638	111	86-C				
NE4G	10,557	69	51-C-80	K5BU	197,208	664	99-C-15	N6NF	6150	82	25-A	W8TJQ	28,638	111	86-C				
KB4KA	61,529	247	80-C-20	K5IY(WD5GX,opr)	166,152	543	102-C	7				K8DD	15,552	72	72-C				
W4JD	77,736	316	82-C-15	K5SF	15,842	507	102-C	W7GT	19,458	138	47-C-AB	W8BWM	6630	65	34-C				
WB4UMS	78,660	345	76-B-10	K85FU	37,800	168	75-C	W7FKP	13,932	129	36-C	N8MK	22472	48	38-C				
N4IR	44,534	198	109-B	W5GO	79,200	330	80-B-10	W7WJK	23,934	38	16-B-80	W8CRV	3780	42	30-C				
W4OGG	26,100	145	60-C	K5RHU	65,880	366	69-C-20	W7LKV	81,606	469	58-C-15	K8IFE	3750	50	25-B				
Virginia																			
A12C	589,470	802	245-C-AB	K5R	61,320	280	73-C	W7AUV	60,102	378	53-C-10	W8WUV	34,125	175	65-C-40				
KC4LQ	517,440	770	224-C	NSCIA	16,698	121	46-B	WA7KLK	19,890	130	51-A-QRP	W8LQZ	20,130	122	55-C-15				
WA4NRQ	231,254	717	154-C	6				W8TWA	222,365	797	98-C-10	W8WV	46,323	147	105-C				
W4RW	262,056	488	179-C	East Bay				W8WV	222,365	797	98-C-10	K8T	68,952	338	68-C				
N4MM	228,324	359	212-C	N6CCN	269,514	558	161-C-AB	K8T	68,952	338	68-C	W8BJA	51,027	233	73-C				
KG4F	170,676	431	132-C	AD6D	39,960	148	90-C	W8VNP	14,700	100	49-C	W8VNP	14,700	100	49-C				
W4DW	137,414	297	144-C	W6BOB	35,028	139	85-C	K8LPT	1980	30	22-B	W8VNP	14,700	100	49-C				
N4AR	93,744	248	126-C	K5GOE/6	38,400	200	64-B-15	N8BIE	1980	30	22-B	W8VNP	14,700	100	49-C				
W4YE	88,920	247	120-C	K5Q	9720	108	30-B-10	W8LUC	1173	23	17-A-QRP	W8VNP	14,700	100	49-C				
K4TSL	85,101	181	107-B	K6S6	1053	39	9-C	Ohio				W8VNP	14,700	100	49-C				
WB4ZPF	58,101	147	107-B	Los Angeles				K8AZ				959,610	1103	290-C-AB					
W4KMS	55,440	176	105-C	N6AR	549,045	747	245-C-AB	K8CMO				373,068	641	213-C					
WB4FHM	42,842	238	63-C	W6BZHT	315,354	626	158-C	K8BTR				324,174	557	194-C					
K4QAQ	5445	55	33-C	K6FZN	98,280	280	117-C	K8BJJ				323,190	512	210-C					
W3VY	241,512	694	116-C-20	K6YRA	51,156	174	98-C	K8D				188,352	357	174-C					
W4KFC	25,340	242	90-B-5	K6DWW	49,832	276	92-C	N8TN				175,570	378	155-C					
K4KGD	25,900	853	100-C-10	K6ELD	390	13	10-C	K8BK				156,870	315	166-B					
K4CTV	102,090	415	82-C	K6SE	528	16	11-B-160	W8MRF				114,375	305	125-C					
WA4FHQ	90,720	252	120-A-QRP	W6OK	28,200	137	60-C-20	K8DJC				81,270	210	129-C					
5																			
Arkansas																			
WD5HSX	159,588	403	132-C-AB	N6A	549,045	747	245-C-AB	K8DB				75,934	314	60-C					
K9VB	71,286	218	109-B	W6ZHT	315,354	626	158-C	W8MRF				114,375	305	125-C					
WE5EJ	12,474	66	63-C	KA6FZN	98,280	280	117-C	W8MRF				114,375	305	125-C					
WA5SOG	10,731	73	49-B	K6YRA	51,156	174	98-C	W8MRF				114,375	305	125-C					
K5UR	330	11	10-B-160	N6DWM	49,832	276	92-C	W8MRF				114,375	305	125-C					
Louisiana																			
WSXZ	1,235,970	1329	310-C-AB	KA6LDU	390	13	10-C	W8MRF				114,375	305	125-C					
K5KLA	1,084,542	1334	271-C	K6SE	528	16	11-B-160	W8MRF				114,375	305	125-C					
WSZR	207,600	400	173-C	W6OK	28,200	137	60-C-20	W8MRF				114,375	305	125-C					
WD5GC	152,556	359	129-C	N6AW	28,812	137	60-C-20	W8MRF				114,375	305	125-C					
K5QA	106,110	270	131-C	N6DHV	27,528	148	62-C	W8MRF				114,375	305	125-C					
WSHEZ	85,281	210	131-C	K6Q5	27	3	3-C	W8MRF				114,375	305	125-C					
W5OB	68,373	213	107-C	Orange				W8MRF				114,375	305	125-C					
K5EOA	68,208	196	46-C	N6HR	21,000	100	70-C-AB	W8MRF				114,375	305	125-C					
WB5HBR	64,974	221	98-B	WA6NGO	726	22	11-C	W8MRF				114,375	305	125-C					
WB5ZRD	59,502	211	94-C	WA6SUZ	2640	55	16-C-15	W8MRF				114,375	305	125-C					
K5GGO	56,000	259	128-C	WD6EWG	17,292	131	44-B-10	W8MRF				114,375	305	125-C					
K5LVZ	54,324	199	92-C	KA6JHU	1608	67	8-B	W8MRF				114,375	305	125-C					
WA5JWU	6930	55	42-B	Sacramento Valley				W8MRF				114,375	305	125-C					
WA5AP	9660	70	46-B-10	K6DR	75,945	305	83-C-AB	W8MRF				114,375	305	125-C					
Mississippi																			
WA5OYU	132,435	327	135-C-AB	N6JM	23,433	107	73-C	W8MRF				114,375	305	125-C					
K5FC	174,096	558	104-C-15	WA6BRV	1980	30	22-B	W8MRF				114,375	305	125-C					
W5UCY	14,100	100	47-B-10	WA9WAC/6	5112	71	24-A-QRP	W8MRF				114,375	305	125-C					
W5OSL	2736	48	19-B	San Diego				W8MRF				114,375	305	125-C					
New Mexico																			
W5JW	328,467	1063	103-C-10	WAGEJL	284,400	600	158-C-AB	W8MRF				114,375	305	125-C					
K5JW	8190	70	39-C	W6TPC	169,575	475	119-C	W8MRF				114,375	305	125-C					
Northern Texas																			
K5NW	786,201	1061	247-C-AB	K76V	50,445	177	95-C	W8MRF				114,375	305	125-C					
W5FO	666,630	823	270-C	W6AFY	178,852	276	92-C	W8MRF				114,375	305	125-C					
W5LKF	232,404	428	181-C	KD6BP	30,576	208	49-C	W8MRF				114,375	305	125-C					
K25CU/5	208,656	432	161-C	W6LAG	22,815	117	65-C	W8MRF				114,375	305	125-C					
KC5EA	198,387	359	129-C	W6VNR	30,420	376	80-B-10	W8MRF				114,375	305	125-C					
W5LWG	112,200	275	136-C	K6GKU	26,400	176	50-C	W8MRF				114,375	305	125-C					
K5CSP	106,200	300	118-C	San Francisco				W8MRF				114,375	305	125-C					
W5LW	95,000	250	128-C	N6OJ	607,728	1151	176-C-AB	W8MRF				114,375	305	125-C					
K5QA	90,036	246	122-C	K6ANP	398,592	768	173-C	W8MRF				114,375	305	125-C					
NSUD	64,770	254	85-C	AF6F	129,276	378	114-C	W8MRF				114,375	305	125-C					
W5FJ	62,848	136	66-C	WSWB	89,964	221	119-C	W8MRF				114,375	305	125-C					
W5ONL	16,281	81	67-C	N6QC	69,255	243	95-C	W8MRF				114,375	305	125-C					
K85VF	18,360	90	68-B	WB6FCR	46,230	230	67-C-15	W8MRF				114,375	305	125-C					
W5DYH	9900	75	44-B	WD6ENZ	1320	22	20-C-10												



KB0PR 353,088-613-192-C  
W0VW 203,850-450-51-B  
K8VY 115,676-292-132-B  
W6VX 98,889-277-119-C  
W0PFF 77,826-118-119-C  
W8RU 72,885-215-117-C  
W5J 53,520-223-80-B  
AK0M 31,992-124-86-B  
KF02 29,304-132-74-B  
N0CAV 19,450-100-62-B  
K80U 16,740-90-62-B  
KA0D 11,016-72-51-C  
W8WDCB 9,546-74-43-C  
W4VWV/W 9,326-74-43-C  
K0GT 10,332-82-42-C-40  
AQ0M 15,336-32-16-B-10  
W8V8VW 77,826-238-109-A-QRP

Kansas  
WA0TKJ 389,610-585-222-C-AB  
W0ISW 304,290-490-207-C  
W6FN 130,935-301-145-C  
W0DCCW 55,200-200-92-B  
K8BLV/W 17,002-86-69-B  
K8BJ 2415-35-23-C  
AC0A 5814-51-38-C-40  
A80X 18,726-26-83-C  
N8AVT 15,651-111-47-B  
K809B 5,760-60-32-B  
W9YZL 1914-29-22-C

Minnesota  
K0DD 552,972-812-227-C-AB  
K0TFF 203,373-383-177-C  
AC0W 143,031-343-139-C  
W0BF 75,600-225-112-C  
W0P 37,599-151-83-C  
WA0TO 4182-41-34-B  
K0HG 168-8-7-B-80  
K80C 68,270-93-15-B  
W0HW 13,950-93-50-C

Missouri  
AC0N 244,956-548-149-C-AB  
K0RWL 17,350-350-167-B  
AC0U 129,000-444-125-C  
W0GML 80,730-207-130-C  
W0UXI 63,600-265-80-B  
W0PKO 48,000-160-100-C  
W0PFC 41,748-196-71-C  
A80K 19,602-99-66-C  
N0TT 2349-29-27-C  
K80P 105-5-5-B  
K80S 3605-26-83-C-80  
K80L 3600-40-30-B-15  
K80RC 311,163-1007-103-B  
N8TLA 18,720-104-60-B

Nebraska  
W0LL 43,500-145-100-B-AB  
K80QH 1241-23-18-B  
K80ND 15,990-130-41-C-20

North Dakota  
K80G 242,273-467-173-C-AB  
K0DO 77,361-251-07-C  
K0FA 21,504-112-64-C  
W0LHS 1368-24-19-B  
W0DHC 68,742-402-57-C-10  
K0CW 48-4-4-B

South Dakota  
W0BHV 132,804-372-119-C-AB  
W0UW 39,831-187-71-C  
W0ACT 74,934-362-69-C-10

VE  
Maritimes - Newfoundland  
VE1CCC 252,927-471-179-B-AB  
VE1ANU 136,394-258-81-B  
VO1CA 36,252-159-76-C  
VE1FW 23,598-138-57-B  
VO1AW 14,560-63-40-C  
VE1DJ 46,800-300-52-20  
VE1BNN 342,804-1078-106-10  
W85UW/VE1 93,528-433-72-C

Quebec  
VE2DW 413,205-845-163-C-AB  
VE2AY 408,000-680-200-C  
VE2DZE 5358-47-38-C-80  
VE2DKK 12,090-130-31-C-10

Ontario  
VE3GGO 881,244-1076-273-C-AB  
VK3WA/VE3 828,900-1228-225-C  
VE3FA 136,890-351-130-C  
VE3GCE 41,208-136-101-C  
VE3GWM 5400-50-36-C  
VE3BBN 108-6-6-B-160  
VE3J 2533-37-23-C-60  
VE3ICR 97,704-354-92-C-20  
VE3JQT 102,648-364-94-B-15  
VE3K1 431,892-175-92-C-15  
VE3BMV 564,750-1506-125-C-10  
VE3MFT 190,026-782-81-C  
VE3SV 24,453-143-57-C  
VE3CYX 17,594-77-17-B  
VE3KKB 162,600-365-148-A-QRP

Manitoba  
VE4RP 54,990-235-78-C-AB  
VE4SL 912-19-16-C-80

Saskatchewan  
VE5RA 723,357-1101-219-C-AB  
VE5ADA 33,831-179-63-C-20

Alberta  
VE6MP 311,298-634-164-B-AB

British Columbia  
VE7BT 1,388,004-2162-214-C-AB  
VE7VX 105,570-510-69-C-20  
VE7AVU 14,892-146-34-C  
VE7IN 431,892-175-92-C-15  
VE7AWT 87,804-542-54-C-10

Yukon - N.W.T.  
VY1AC 30,951-181-57-B-AB  
VY1DD 600-20-10-C  
VY1DV 297-11-9-C-20

W/V-E PHONE  
Multioperator  
Single Transmitter

1  
N1TZ(+K1) IU,KNQ,SF,KA1ERF,

N1ACU,W1BR,W1UZH)  
W100(+K1) 2,711,703-2059-439-C-WM  
W100(+K1) 2,537,115-2555-331-C-AZ  
W7NI(+A1/B,K5MM)  
K1IK(+K1) 1,256,616-2723-264-C-OR  
W121(+K1) 1,256,616-2723-264-C-OR  
K1NG(+K1) 1,309,896-1356-322-C-CT  
K81T(+K1) 1,309,896-1356-322-C-CT  
PH,W81HJF 1,99,448-1234-324-B-NH  
A61C(+W1VY) 1,921,911-1263-299-C-EM  
K1GSK(+W1ZJ) 724,164-932-259-C-EM  
K1EM(+K1RM) 2,201,171-531-147-C-CT  
K1FWF(Multi) 201,852-356-189-C-EM  
W1BK(+N1CW,W1UAR) 135,474-337-134-C-EM  
K1GW(+K1KA) 123,750-330-125-C-NH  
K1CF(+K1IR) 114,318-261-146-C-EM

K2VV(+N2J) 1,670,760-1785-312-C-WNY  
W2REH(+K1) 1,424,595-1301-365-C-SNJ  
W2RQ(+W2) 1,382,763-1427-323-C-NNJ  
AE2A(+K1) 1,226,148-1327-308-C-NNJ  
K2CL(+W1BG,RP,N2BHP,W2XL) 658,052-802-249-C-ENY  
K2OY(+W2YX,W2STM) 643,188-806-266-C-ENY  
K2QF(+Net) 591,084-842-234-C-ENY  
W2LQK(+K2) 502,455-785-221-C-NLI  
W2DKM,W2PFF,W2BZMP 520,455-785-221-C-NLI  
W2UI(+N3KR) 349,524-532-219-C-SNJ  
N2CDD(+K2) 270,484-442-189-C-ENY  
W2S KQN,W2BZ 114,243-337-113-B-NLI

3  
W3BGN(+K2CX,N3ED) 2,924,220-2119-460-C-EPA  
K83AG(+W83) 685,692-907-252-C-WI  
K3HP(+K3B3FOG) 1,173,690-1242-315-C-MDC  
W3VUQ(+W3) 895,965-1127-265-C-MDC  
W3GG(+N3TO) 1,452,1013-268-C-MDC  
W3GNQ(+N5AL) 319,725-523-203-C-IL  
K89Z(+K8) 705,159-861-273-C-MDC  
W3SEK(+K3ON,K3EJ,N3CV,W3BDF) 645,516-774-278-C-EPA  
W3AEUL(+W3) 426,384-658-216-B-EPA  
W3BZK(+N3S,W3BJR) 420,357-541-255-C-MDC  
K3AO(+K4J,W3BLN) 422,230-467-230-B-MDC  
W3IGS(+Net) 298,566-513-194-C-EPA  
K83KE(+K8) 280,245-595-157-C-EPA  
K3BKW(+K3RUC,W3OSZ,W3SKXV,W3CS,CMF,F,N,T,S) 280,245-595-157-C-EPA  
W3KT(+Net) 84,608-237-113-C-EPA

4  
W4QAW(+K3) 3,535,028-2295-492-C-EPA  
N4RV(+A1) 2,503,488-1888-442-C-VA  
K8BH(+K8) 2,462,805-2027-405-C-VA  
W4BZ(+K4) 1,458,126-1373-354-C-VA  
N4TJ(+W8) 571,362-787-242-C-SC  
N4AJ(+W8) 407,026-461-222-C-AL  
KA4NEC(+KA4DJ) 298,302-599-166-C-GA  
W4RX(+Net) 5880-56-35-C-VA

5  
K5GA(+K5) 3,758,637-2867-437-C-STX  
K5CHW,K5NH,W5WHR) 3,758,637-2867-437-C-STX  
K5TA(+A8) 2,212,332-2035-35-C-NM  
W5VX(+K5) 1,039,500-1878-362-C-STX  
K5QY(+N5) 855,819-1093-62-C-NTX  
K5MK(+N5BQ) 855,819-1093-62-C-NTX  
W5AC(KMSL,N5) 855,819-1093-62-C-NTX  
W5BDA(+K5) 855,819-1093-62-C-NTX  
W5BRWJ(+K5) 855,819-1093-62-C-NTX  
K6HNZ(+Net) 1,167,264-1544-252-C-SCV  
AA6DP(+N6) 1,164,240-1617-240-C-ORG  
AA6T(+N6) 1,164,240-1617-240-C-ORG  
K5KT(+K5) 1,017,084-1294-262-C-ORG  
K6H1H(+K6) 1,017,084-1294-262-C-ORG  
W6GO(K6) 745,332-934-266-C-SV  
K6SG(+K6) 690,624-1199-192-C-SV  
W6YX(+N6) 690,624-1199-192-C-SV  
W6YX(Multi) 690,624-1199-192-C-SV  
W6YX(N6) 690,624-1199-192-C-SV  
W6BIP(+K6) 437,400-900-162-C-SF  
W6UE(N6) 437,400-900-162-C-SF  
W6DU(+N6) 357,107-C-LAX  
A6V(+Net) 30,252-276-109-C-SCV  
W6BRWJ(+K6) 30,252-276-109-C-SCV  
K6BJK(+Net) 61,254-246-83-C-EB  
W6BZS(+K6) 61,254-246-83-C-EB  
K6KX(+Net) 61,254-246-83-C-EB  
N6C(+Net) 61,254-246-83-C-EB  
N6C(Multi) 61,254-246-83-C-EB  
K6CSL(+Net) 61,254-246-83-C-EB  
AK6P(+Net) 61,254-246-83-C-EB  
K6FO(+Net) 61,254-246-83-C-EB

6  
K7S(+K7) 5,111,501-3667-501-C-IL

W/V-E PHONE  
Multioperator  
Multi-Transmitter

7  
K7S(+K7) 5,111,501-3667-501-C-IL

N7) AJI,BJX,CW,US,W7A7N1Y,  
W87FDQ) 2,537,115-2555-331-C-AZ  
W7NI(+A1/B,K5MM)  
K1CC(+K1) 1,256,616-2723-264-C-OR  
N7RO(+K1) 1,256,616-2723-264-C-OR  
EKM,W7A7N1Y)  
K7GEX(+W87BNP) 1,196,620-1534-260-C-WA  
W3MM(+K3) 5,135,088-3596-476-C-CT  
N3VV,W3BI) 5,121,024-3334-512-C-EPA  
K3WW(+K3) 5,121,024-3334-512-C-EPA  
N2ATX,N3EC,W4BFW,W43VLE,  
W3BS FTP IXG) 4,878,738-3246-501-C-EPA  
W3FA(+K3) 4,878,738-3246-501-C-EPA  
W3AZAS,N8II) 4,257,264-2932-484-C-MDC  
W8RDF(+W8) 4,257,264-2932-484-C-MDC  
N8R,ZI,W6S UQF,ZUM,W4BDB) 3,744,729-3477-359-C-SDGO  
K6RU(+A6) 3,744,729-3477-359-C-SDGO  
XO,K6GUC,W1ARR) 3,676,881-3251-377-C-SCV  
N2RM(+N2M,W42SF) 3,593,808-2832-423-C-SNJ  
N6SV(+K6) 3,471,261-3053-379-C-SDGO  
W3RJ(+K3) 3,471,261-3053-379-C-SDGO  
N3RD(+N3M,W3XU) 3,328,668-2499-444-C-EPA  
W3GM(+A3J) 3,328,668-2499-444-C-EPA  
K3EA,W3FV) 3,143,559-2273-461-C-EPA  
K1RQ(+W1) 3,143,559-2273-461-C-EPA  
W1B1GZD) 2,886,900-1980-385-C-WM  
K6ZM(+A6) 2,886,900-1980-385-C-WM  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
N6AA(+N6) 1,219,434-1217-334-C-MDC  
N5J(+K5) 1,219,434-1217-334-C-MDC  
AD3V(+W3N) 856,254-1073-266-C-STR  
W4E1(+N4M) 856,254-1073-266-C-STR  
K83HE(+K8) 856,254-1073-266-C-STR  
W3GU(+K3CY) 551,286-747-246-C-EPA  
N1AU(+K1) 500,540-690-242-C-EM  
K1ORB(+N1) 500,540-690-242-C-EM  
W5GUP(+W5) 36,169-237-79-B-WM  
W42AAZ(A82F,KA2S,HCX,ILH,  
W52) 38,934-206-63-C-MS  
W85SMC(+K7NH,K7W8HTN) 19,547-109-61-C-WNY  
1620-27-29-B-IN

8  
W8DEL(+K4V) 1,240,053-1471-281-C-WI  
W89GD(+K8) 685,692-907-252-C-WI  
AF9C(+N9AN) 482,664-678-235-C-IL  
W9AE(N9B,W9) 482,664-678-235-C-IL  
W9B9GA,W9D9V,J,HGQ,QQ,  
K89BR(+N9LE) 312,081-573-199-B-IL  
W3GNQ(+N5AL) 319,725-523-203-C-IL  
K89Z(+K8) 705,159-861-273-C-MDC  
W3SEK(+K3ON,K3EJ,N3CV,W3BDF) 645,516-774-278-C-EPA  
W3AEUL(+W3) 426,384-658-216-B-EPA  
W3BZK(+N3S,W3BJR) 420,357-541-255-C-MDC  
K3AO(+K4J,W3BLN) 422,230-467-230-B-MDC  
W3IGS(+Net) 298,566-513-194-C-EPA  
K83KE(+K8) 280,245-595-157-C-EPA  
K3BKW(+K3RUC,W3OSZ,W3SKXV,W3CS,CMF,F,N,T,S) 280,245-595-157-C-EPA  
W3KT(+Net) 84,608-237-113-C-EPA

9  
K9RF(+K9) 1,240,053-1471-281-C-WI  
W89GD(+K8) 685,692-907-252-C-WI  
AF9C(+N9AN) 482,664-678-235-C-IL  
W9AE(N9B,W9) 482,664-678-235-C-IL  
W9B9GA,W9D9V,J,HGQ,QQ,  
K89BR(+N9LE) 312,081-573-199-B-IL  
W3GNQ(+N5AL) 319,725-523-203-C-IL  
K89Z(+K8) 705,159-861-273-C-MDC  
W3SEK(+K3ON,K3EJ,N3CV,W3BDF) 645,516-774-278-C-EPA  
W3AEUL(+W3) 426,384-658-216-B-EPA  
W3BZK(+N3S,W3BJR) 420,357-541-255-C-MDC  
K3AO(+K4J,W3BLN) 422,230-467-230-B-MDC  
W3IGS(+Net) 298,566-513-194-C-EPA  
K83KE(+K8) 280,245-595-157-C-EPA  
K3BKW(+K3RUC,W3OSZ,W3SKXV,W3CS,CMF,F,N,T,S) 280,245-595-157-C-EPA  
W3KT(+Net) 84,608-237-113-C-EPA

10  
K0RF(+K0) 3,875,175-3115-415-C-CO  
K0DQ) 3,535,028-2295-492-C-EPA  
N4RV(+A1) 2,503,488-1888-442-C-VA  
K8BH(+K8) 2,462,805-2027-405-C-VA  
W4BZ(+K4) 1,458,126-1373-354-C-VA  
N4TJ(+W8) 571,362-787-242-C-SC  
N4AJ(+W8) 407,026-461-222-C-AL  
KA4NEC(+KA4DJ) 298,302-599-166-C-GA  
W4RX(+Net) 5880-56-35-C-VA

11  
K0RF(+K0) 3,875,175-3115-415-C-CO  
K0DQ) 3,535,028-2295-492-C-EPA  
N4RV(+A1) 2,503,488-1888-442-C-VA  
K8BH(+K8) 2,462,805-2027-405-C-VA  
W4BZ(+K4) 1,458,126-1373-354-C-VA  
N4TJ(+W8) 571,362-787-242-C-SC  
N4AJ(+W8) 407,026-461-222-C-AL  
KA4NEC(+KA4DJ) 298,302-599-166-C-GA  
W4RX(+Net) 5880-56-35-C-VA

12  
K0RF(+K0) 3,875,175-3115-415-C-CO  
K0DQ) 3,535,028-2295-492-C-EPA  
N4RV(+A1) 2,503,488-1888-442-C-VA  
K8BH(+K8) 2,462,805-2027-405-C-VA  
W4BZ(+K4) 1,458,126-1373-354-C-VA  
N4TJ(+W8) 571,362-787-242-C-SC  
N4AJ(+W8) 407,026-461-222-C-AL  
KA4NEC(+KA4DJ) 298,302-599-166-C-GA  
W4RX(+Net) 5880-56-35-C-VA

W/V-E PHONE  
Multioperator  
Multi-Transmitter

13  
K0RF(+K0) 3,875,175-3115-415-C-CO  
K0DQ) 3,535,028-2295-492-C-EPA  
N4RV(+A1) 2,503,488-1888-442-C-VA  
K8BH(+K8) 2,462,805-2027-405-C-VA  
W4BZ(+K4) 1,458,126-1373-354-C-VA  
N4TJ(+W8) 571,362-787-242-C-SC  
N4AJ(+W8) 407,026-461-222-C-AL  
KA4NEC(+KA4DJ) 298,302-599-166-C-GA  
W4RX(+Net) 5880-56-35-C-VA

K8LX(+AA8) 5,135,088-3596-476-C-CT  
N8EA,W8TA,W8S YVR,ZB) 5,135,088-3596-476-C-CT  
W8AL(+K8) 5,135,088-3596-476-C-CT  
W8PPEE,W8D9FW) 5,135,088-3596-476-C-CT  
K1CC(+K1) 1,256,616-2723-264-C-OR  
N7RO(+K1) 1,256,616-2723-264-C-OR  
EKM,W7A7N1Y)  
K7GEX(+W87BNP) 1,196,620-1534-260-C-WA  
W3MM(+K3) 5,135,088-3596-476-C-CT  
N3VV,W3BI) 5,121,024-3334-512-C-EPA  
K3WW(+K3) 5,121,024-3334-512-C-EPA  
N2ATX,N3EC,W4BFW,W43VLE,  
W3BS FTP IXG) 4,878,738-3246-501-C-EPA  
W3FA(+K3) 4,878,738-3246-501-C-EPA  
W3AZAS,N8II) 4,257,264-2932-484-C-MDC  
W8RDF(+W8) 4,257,264-2932-484-C-MDC  
N8R,ZI,W6S UQF,ZUM,W4BDB) 3,744,729-3477-359-C-SDGO  
K6RU(+A6) 3,744,729-3477-359-C-SDGO  
XO,K6GUC,W1ARR) 3,676,881-3251-377-C-SCV  
N2RM(+N2M,W42SF) 3,593,808-2832-423-C-SNJ  
N6SV(+K6) 3,471,261-3053-379-C-SDGO  
W3RJ(+K3) 3,471,261-3053-379-C-SDGO  
N3RD(+N3M,W3XU) 3,328,668-2499-444-C-EPA  
W3GM(+A3J) 3,328,668-2499-444-C-EPA  
K3EA,W3FV) 3,143,559-2273-461-C-EPA  
K1RQ(+W1) 3,143,559-2273-461-C-EPA  
W1B1GZD) 2,886,900-1980-385-C-WM  
K6ZM(+A6) 2,886,900-1980-385-C-WM  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
N6AA(+N6) 1,219,434-1217-334-C-MDC  
N5J(+K5) 1,219,434-1217-334-C-MDC  
AD3V(+W3N) 856,254-1073-266-C-STR  
W4E1(+N4M) 856,254-1073-266-C-STR  
K83HE(+K8) 856,254-1073-266-C-STR  
W3GU(+K3CY) 551,286-747-246-C-EPA  
N1AU(+K1) 500,540-690-242-C-EM  
K1ORB(+N1) 500,540-690-242-C-EM  
W5GUP(+W5) 36,169-237-79-B-WM  
W42AAZ(A82F,KA2S,HCX,ILH,  
W52) 38,934-206-63-C-MS  
W85SMC(+K7NH,K7W8HTN) 19,547-109-61-C-WNY  
1620-27-29-B-IN

14  
K8LX(+AA8) 5,135,088-3596-476-C-CT  
N8EA,W8TA,W8S YVR,ZB) 5,135,088-3596-476-C-CT  
W8AL(+K8) 5,135,088-3596-476-C-CT  
W8PPEE,W8D9FW) 5,135,088-3596-476-C-CT  
K1CC(+K1) 1,256,616-2723-264-C-OR  
N7RO(+K1) 1,256,616-2723-264-C-OR  
EKM,W7A7N1Y)  
K7GEX(+W87BNP) 1,196,620-1534-260-C-WA  
W3MM(+K3) 5,135,088-3596-476-C-CT  
N3VV,W3BI) 5,121,024-3334-512-C-EPA  
K3WW(+K3) 5,121,024-3334-512-C-EPA  
N2ATX,N3EC,W4BFW,W43VLE,  
W3BS FTP IXG) 4,878,738-3246-501-C-EPA  
W3FA(+K3) 4,878,738-3246-501-C-EPA  
W3AZAS,N8II) 4,257,264-2932-484-C-MDC  
W8RDF(+W8) 4,257,264-2932-484-C-MDC  
N8R,ZI,W6S UQF,ZUM,W4BDB) 3,744,729-3477-359-C-SDGO  
K6RU(+A6) 3,744,729-3477-359-C-SDGO  
XO,K6GUC,W1ARR) 3,676,881-3251-377-C-SCV  
N2RM(+N2M,W42SF) 3,593,808-2832-423-C-SNJ  
N6SV(+K6) 3,471,261-3053-379-C-SDGO  
W3RJ(+K3) 3,471,261-3053-379-C-SDGO  
N3RD(+N3M,W3XU) 3,328,668-2499-444-C-EPA  
W3GM(+A3J) 3,328,668-2499-444-C-EPA  
K3EA,W3FV) 3,143,559-2273-461-C-EPA  
K1RQ(+W1) 3,143,559-2273-461-C-EPA  
W1B1GZD) 2,886,900-1980-385-C-WM  
K6ZM(+A6) 2,886,900-1980-385-C-WM  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
K3IU(+K3) 1,564,110-1931-270-C-EB  
N3AD(+N3) 1,564,110-1931-270-C-EB  
N6AA(+N6) 1,219,434-1217-334-C-MDC  
N5J(+K5) 1,219,434-1217-334-C-MDC  
AD3V(+W3N) 856,254-1073-266-C-STR  
W4E1(+N4M) 856,254-1073-266-C-STR  
K83HE(+K8) 856,254-1073-266-C-STR  
W3GU(+K3CY) 551,286-747-246-C-EPA  
N1AU(+K1) 500,540-690-242-C-EM  
K1ORB(+N1) 500,540-690-242-C-EM  
W5GUP(+W5) 36,169-237-79-B-WM  
W42AAZ(A82F,KA2S,HCX,ILH,  
W52) 38,934-206-63-C-MS  
W85SMC(+K7NH,K7W8HTN) 19,547-109-61-C-WNY  
1620-27-29-B-IN

15  
K8LX(+AA8) 5,135,088-3596-476-C-CT  
N8EA,W8TA,W8S YVR,ZB) 5,135,088-3596-476-C-CT  
W8AL(+K8) 5,135,088-3596-476-C-CT  
W8PPEE,W8D9FW) 5,135,088-3596-476-C-CT  
K1CC(+K1

EA2CR	3300	50	22-B-20	OZ1DYC	7560	90	28-B	V24NN/A	4026	61	22-B	YV4B0W/2	131,835	799	55-B-20	ON6BR(ON5VA,ON6 JA,JA,OU,ON7)HW,PY,ON6OF,oprs)	609,900-1255-162-B
EA3AVX	1785	35	17-B	OZ25EV	7560	105	28-40	V35XA	2078	57	18-B	YV2AS	10,509	113	31-B-15	PA9GN(PA2AWA,PA06 ERA,GIN,oprs)	1,251,369-2207-189-B
EA3NA	148,665	901	55-B-15	OZ26QV	145,200	880	55-C-20	V35VL	2760	46	20-B	ZP5PT	5850	78	25-C-80	SK4NI(SM45 APZ,DVF,MI,SM65 CJK,CVT,EDI,SM7DLZ,SM9GMZ,SM40V,oprs)	1,647,345-2705-203-C
EA5ANR	35,376	268	46-B	OZ2CAH	210	10	7-C	V47VH	1710	30	19-B	9Y4VU	305,256-1817	56-B-10	SM5GMG(+SM6GNU)	3,306,323-2517-173-C	
EA7BWY	23,310	210	37-B	OZ2OAI	126	6	6-B	V47VH	1710	30	19-B	DX - PHONE			SL2ZZU(SM25 CW,EJE,EKM,EUO,GET,GSM,oprs)	952,020-1935-164-C	
EA35A	87,984	611	48-C-10	OZ26MW	16,226	163	34-B-10	V25BL	210	10	7-B	Multioperator			SM2ZZU(SM25 CW,EJE,EKM,EUO,GET,GSM,oprs)	952,020-1935-164-C	
EA30AE	71,544	24	16-B	OZ1BUR	6,996	101	32-B	Y06AWR	468,270	1290	121-B-B	Single Transmitter			SM2ZZU(SM25 CW,EJE,EKM,EUO,GET,GSM,oprs)	952,020-1935-164-C	
EA7ALG	1152	24	16-B	OZ1BUR	6,996	101	32-B	Y06KSC	13,113	141	31-B-40	Africa			SM2ZZU(SM25 CW,EJE,EKM,EUO,GET,GSM,oprs)	952,020-1935-164-C	
EA6GP	19,278	126	51-B-A-B	OZ25JR	4284	68	21-B	Y02BEH	5475	73	25-B-20	CN8AN(+CN8CO)	819,501	1579	173-B	SP7KT(E5P75 AW,IFM,IT,oprs)	141,864 514-92-B
EI2BB	271,425	1645	55-B-10	OZ26XR	2208	46	16-B	Y02BEH	5475	73	25-B-20	EL9A(+EL9C)	2,694,435	3415	263-C	SP9PRO(3 opers)	118,048 128-47-C
E12DH	138,648	872	53-B	OZ26KS	273	13	7-B	Y03KMW(JY03JW,oprs)	196,185	1189	55-B-10	North America			ZS6TPB(ZS65 APS,APT,BPJ,BRV,BRX,BRY,BSI,WB,oprs)	132,849 509-87-C	
F6DZU	547,536	1037	176-B-B	PA0ADC	144,816	431	112-B-B	Y09AFT	16,740	180	31-B	K6OJ/C6A	1,308,888	2058	121-B-B	K6J/C6A	229,184 1325-64-B
F9ER	100,062	654	51-B	PA0XPQ	113,751	383	99-B	Y09HT	15,540	148	35-A-QRP	FM0FJE	22,600	1325	56-C-10	FG8FOO(FS(N6RA,oprs)	481,707 2817-57-B-10
F6GPG	27,156	146	62-B	PA0LQU	111,936	424	88-C	YU1NZW	48,336	212	76-B-A-B	HC2BW	120,744	387	104-C-A-B	H18LCP	63,222 257-82-B-A-B
F6CLM	26,040	140	62-B	PA0KDM	32,922	777	62-B	YU75FM	11,910	102	39-B	H18JAC	31,008	672	58-C-160	H18JAG	31,008 672-58-C-160
F6ENT	17,304	103	56-B	PA0MWW	1776	60	30-B	YU7ECD	207,816	1237	56-C-20	H18PQJ	101,100	652	54-C-80	H18MRP	23,985 205-39-C-40
F6CXJ	15,474	117	47-B	PA0FEI	1080	20	18-B	YU3TU	295,512	1759	56-C-15	H18QB	292,545	1773	55-C-15	H18LC	43,200 300-48-B-10
F8WE	10,424	116	33-B	PA0JAW	52,593	373	47-B-10	YU3EY	431,604	2524	57-C-10	HP1XO	267,300	1620	55-C-10	J87BM(WB1ABF,oprs)	70,092 354-66-B-A
F6DRP	8232	98	28-B	PA0RR5	18,216	138	44-B	YU1DBA	186,420	1195	52-B	J87BL(W1JWP,oprs)	27,693	181	51-B	KG4ET	444,690 915-162-B-A
F6CCI	7776	81	32-B	P1LARS	11,424	136	28-B	YU2RUR	19,950	175	38-B	AL7X	595,848	1342	148-C-B	KP4AM	7800 526-50-C-15
F6BRK	5161	47	11-B-20	PA3AOG	1092	28	13-B	North America				OX3ZM	719,628	1318	182-C-A-B	W2BBK/PJ7	495 15-11-B-A
F6BVB	37,779	257	49-B-10	SM6JVQ	271,440	696	130-B-B	K6OJ/C6A	1,308,888	2058	121-B-B	VP2MP(K2YY,oprs)	5,449,095	6285	289-C-A	VP2VHD(W3FPO,oprs)	231,516 708-109-B-A
F6VFX	20,538	163	42-A-QRP	SM55AK	183,370	690	91-C	FM0FJE	22,600	1325	56-C-10	N1GL/VP9	4,092,300	4547	300-B-A-B	WA4ARV/VP9	650,484 1258-171-B
G2QT	310,488	761	136-B-A-B	SK7NRK(SM7A10,oprs)	91,224	362	84-C	FG8FOO(FS(N6RA,oprs)	481,707 2817-57-B-10			WA4ARV/VP9	650,484	1258	171-B	VP9B	650,484 1258-171-B
G2FVK	272,217	803	113-C	SM5DBM	82,890	307	90-C	HC2BW	120,744	387	104-C-A-B	VP9B	650,484	1258	171-B	XE1LLS	441,351 2581-57-C-10
G3YBH	22,200	148	50-B	SM9CQM	64,698	623	82-C	H18LCP	63,222	257	82-B-A-B	WA4ARV/VP9	650,484	1258	171-B	HT5JAR	87,900 586-50-B-20
G3NT	12,200	148	50-B	SM5IKQ	37,152	172	72-C	H18JAC	31,008	672	58-C-160	4U1UN(DL6LV,oprs)	77,821	1363	189-C-A-B	4U1UN(DL6LV,oprs)	77,821 1363-189-C-A-B
G4DKA	9660	140	32-C-80	SM4JEU	36,540	170	70-B	H18PQJ	101,100	652	54-C-80	8P6M(VE3PC7U,oprs)	604,344	1352	149-B-A-B	Oceania	
G4JJE	324	12	9-B-40	SM7HSP	33,060	190	58-C	H18MRP	23,985	205	39-C-40	DUIEFZ	22,176	224	33-B-15	DUIEFZ	22,176 224-33-B-15
G5DCU	170,442	1033	55-B	SM7BOU	29,904	178	56-C	H18QB	292,545	1773	55-C-15	DUI6JM	63,798	434	39-B-15	DUI6JM	63,798 434-39-B-15
G4BWP	418,824	243	13-B-15	SM9D5S	113,400	675	56-C-20	H18LC	43,200	300	48-B-10	FO8GW	199,800	740	90-B-A-B	FO8GW	199,800 740-90-B-A-B
G4GHP	170,442	1033	55-B	SM7A10	18,792	116	54-B	VP2VHD(W3FPO,oprs)	231,516 708-109-B-A			KC6GZ(KH2AD,oprs)	63,360	352	60-C-A-B	KH3AB	1,320,744 1948-226-C-A
G4BWP	418,824	243	13-B-15	SM7A10	18,792	116	54-B	N1GL/VP9	4,092,300	4547	300-B-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G4GHP	170,442	1033	55-B	SM7A10	18,792	116	54-B	WA4ARV/VP9	650,484	1258	171-B	KH6BZF	1,948,080	2712	239-C	KH6BZF	1,948,080 2712-239-C
G3WTM	123,090	746	55-C	SM7A10	18,792	116	54-B	VP9B	650,484	1258	171-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G4BZC	101,424	648	55-B	SM7A10	18,792	116	54-B	XE1LLS	441,351	2581	57-C-10	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G4KGA	79,542	491	54-B	SM7A10	18,792	116	54-B	HT5JAR	87,900	586	50-B-20	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G4KIU	7068	76	31-B	SM7A10	18,792	116	54-B	4U1UN(DL6LV,oprs)	77,821	1363	189-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G3IMW	13,920	116	40-A-QRP	SM7A10	18,792	116	54-B	8P6M(VE3PC7U,oprs)	604,344	1352	149-B-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
G13KDR	217,248	584	124-B-A-B	SM7A10	18,792	116	54-B	Oceania				KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
GM3AYR	39,330	190	69-C-A-B	SM7A10	18,792	116	54-B	DUIEFZ	22,176	224	33-B-15	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
GM5AXY	11,970	114	35-C-15	SM7A10	18,792	116	54-B	DUI6JM	63,798	434	39-B-15	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
GM4FDM	158,523	997	53-B-10	SM7A10	18,792	116	54-B	FO8GW	199,800	740	90-B-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
QY3VIZ	101,577	691	49-B-10	SM7A10	18,792	116	54-B	KC6GZ(KH2AD,oprs)	63,360	352	60-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
GW4BLE	385,392	2294	56-C-10	SM7A10	18,792	116	54-B	KH3AB	1,320,744	1948	226-C-A	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
GW3NFF	128,700	825	52-C	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA9KPU	128,037	467	91-B-A-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA1ZD	9,951	352	91-B-A-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA5KMB	10,101	91	37-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA4XH	171,192	1019	56-B-20	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA8KXQ	22,390	169	83-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA5LX	39,468	298	56-B-20	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HA3HV	37,092	281	44-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
H8KAX	22,878	186	41-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HB9AAM	170,016	960	112-C-A-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
HB9DX	117,045	765	51-C-10	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IF6LD	2,118,675	3445	205-C-A-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IT9YSW	48,375	215	75-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IK2UW	10,101	91	37-B	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IAVNG	5580	93	10-80	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
INPNH	92,862	737	42-C-40	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IZVRN	83,688	634	44-C	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IZYXG	173,047	1059	52-B-10	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952	2776	259-C-A-B	KH6ND	2,156,952 2776-259-C-A-B
IZJZC	204,792	1219	56-C-15	SM7A10	18,792	116	54-B	KH6ND	2,156,952	2776	259-C-A-B						

WVE - CW

Single Operator

1

Connecticut

K1V7M(K1JX,opr) 1,832,436-2166-282-C-AB
N5AW/1 698,100-895-260-B
K1BV 445,325-922-161-C
WA1CCR 399,009-857-169-C
W1KFF 360,864-716-168-B
K1CQ 347,277-719-161-C
K1WJ 297,809-731-113-C
W1XK 232,521-433-179-B
AK1B 228,780-620-123-B
K1WJ 200,415-431-155-C
AB1U 161,280-384-140-B
K1EYB 130,032-344-126-C
K1ADS 125,001-323-239-B
W1CNU 118-047-361-109-B
K1A1FC 108,459-309-117-B
N1JW 69,750-310-75-B
W1DIT 59,892-217-92-C
W1VH 57,354-242-79-C
W1AB 56,100-170-110-C
K1ID 42,174-198-71-B
W1B1CR 15,552-96-54-B
WIHUE 13,104-84-52-B
W1B1FO 10,944-96-38-B
K1BMB 4,452-53-28-B
W1BEM 2,886-37-26-B
W1XW 108-6-6-B-160
W1ZM(K1ZM,opr) 89,842-234-71-C-80
W1NG 30,504-164-62-C
W1BWS 16,550-25-22-C
W1EWD 14,587-27-18-B
W1WJ 12-2-2-C
K1WB 21,033-171-41-C-40
K1EFI 74,370-335-74-B-20
K1RM 156,000-1200-85-C-10
K1EY 155,240-114-63-C
W1A1FCN 91,392-544-17-B
W1ATRY 7,854-154-17-B
K1CE 507-13-13-B
K1A1CFZ/N 1,224-24-17-A-QRP

Eastern Massachusetts

K1AR 1,717,455-1877-305-C-AB
K1DG 1,310,214-1571-278-C
W1IHN 989,899-1074-259-C
W1FD 794-12-2-C
W1DA 732,690-1163-210-C
W1WLV 433,008-744-194-C
K1ACEI 359,904-208-96-C
W1FM 131,733-369-119-B
N1QY 130,476-332-131-B
W1B1FV 90,375-241-125-C
K1MEM 90,375-241-125-C
AD1Z 74,580-220-113-C
W1ZK 40,395-247-95-C
W1AKSF 59,904-208-96-C
N1ABX 35,154-186-63-B
K1ACLV 35,040-146-80-B
W1AYVT 25,246-114-63-C
W1OPJ 6,231-57-31-B
W1PLJ 1,824-32-19-C
W1BB 18-3-2-B-160
K1MC 340-4-27-B-20
W1B1CNM 71,001-483-49-C-15
K1B1Q 70,227-459-51-B
W1BET 507-13-13-B
W1CM 1,344-28-16-C-10
K1KSY 18,327-149-41-A-QRP

Maine

N1AC 1,029,882-1519-226-C-AB
W1GLH 107,604-366-98-B
W1JD 43,50-50-29-C
W1GX 24,480-136-60-B
K1B1 17,490-106-55-C
K1POS 12,916-64-8-B
W1EIL 8,514-6-43-B
K1UO 31,995-237-45-C-40
W1PHY 36-3-3-C-20
K1MNR 17,028-129-44-A-QRP

New Hampshire

K1GQ 1,273,776-1561-272-C-AB
W21GD 317,538-767-138-C
W1END 184,950-450-137-B
W1JSM 14,130-215-84-C
K1NH 24,000-125-64-C
W1UN 4,785-55-29-C

Rhode Island

W1GL 822,447-1101-249-C-AB
W1RFQ 20,130-12-55-B
K1V5J 43-50-29-C
W1B1NR 2016-32-21-C
K1JA 20,670-130-53-C-80

Vermont

K2LE/1 1,162,593-1389-279-C-AB
W1KQ 11,610-129-30-C-10

Western Massachusetts

K1BW 1,814,127-2009-301-C-AB
K1ST 797,280-1208-220-C
W2TA/1 755,055-987-255-C
W1GG 620,568-1014-204-C
W1IHM 288,684-594-162-C
K1A1T 133,464-332-134-B
W3A3OF 64,512-224-96-B
K1VHS 11,028-57-80-C
K1RQ 161,028-852-63-C-15

2

Eastern New York

W2PVP(N2NT,opr) 2,007,936-2016-332-C-AB

W2YV 1,246,200-1550-268-C
W21B 1,215,024-1489-272-C
W21C 1,215,024-1489-272-C
WA2LJM 96,552-298-108-C
W2AWF 83,916-259-108-C
W2WD 63,558-198-107-C
N2COP 63,558-198-107-C
K2MN 6498-57-38-B
N2BUB 1425-25-19-B
K2FK 124,904-569-72-C-40
W2CRS 13,803-107-43-B
W2AO 177,021-163-89-C-20
W2KHQ 21,267-63-51-B
K2CR 144-8-6-C-15
AG2X 60,207-427-47-C-10
W2TTHN 33,228-213-52-C
W2PTF 7080-59-40-A-QRP

New York City - L.I.

K2PE 851,643-1131-251-C-AB
N2GC 545,664-784-232-B
K2MFY 439,587-729-201-B
N2UN 362,880-630-192-C
W2GKZ 145,248-356-136-C
W2LPA 136,539-389-117-B
W2AEY 125,370-298-105-B
W2M 125,370-298-105-B
K2SX 96,696-237-136-C
N2KA 87,648-332-88-C
W2A1SH 83,478-244-114-C
W2AFM 62,073-209-99-B
W2QEU 32,160-134-80-B
K2ACW 21,645-111-65-B
W2ER 20,640-138-60-B
W211 8,160-68-40-B
K2CNP 6612-58-38-B
K2VHTH 6604-55-40-B
W2GFW 9478-53-20-B
K2GA 5400-45-40-C
W2SGK 3441-37-31-C
W2ER 24,840-138-60-B-80
W2ASGY 4698-54-29-B-40
N2DT 125,244-588-71-C-20
K2OB 56,925-275-69-C
W2CZ 27-2-2-C-15
W2NBI 12-2-2-C
W2AYJ 82,008-402-68-C-10
W2YV 77,735-55-B-20
K2AEV 37,350-249-50-B
K2DFO 10,692-108-33-B
K2CMV 6216-74-28-B
W2ZENW 22,110-134-55-A-QRP

Northern New Jersey

N2LT 1,669,221-1899-293-C-AB
W2RQ 1,448,172-1908-253-C
K2EA 1,332,844-1622-274-C
K2DM 1,128,930-1555-242-C
N7T7/2 1,024,560-1423-240-C
W2JUN 976,921-1134-287-C
W2N 840,475-1057-265-C
W2GD 710,700-1030-230-C
N2IC 657,639-1059-207-C
W2PHM 629,488-648-72-B
K2DG 209,979-693-101-C
W2NJ 187,920-432-145-B
W2GD 154,640-330-156-C
W2ZZ 153,510-430-119-B
W2HUG 84,870-246-115-B
W2E 59,592-91-104-C
K2BLA 57,684-253-76-B
N2IN 6003-69-29-B
W2APQ 4275-57-25-C
W2O1V 1760-40-23-B
W21FS 7992-72-37-C-40
K2JN 5046-58-29-B
W2WD 76,893-361-71-C-15
W2UL 70-6-70-C
K2TW 94,920-452-70-C-10
N2AL 36,000-250-48-B
AF2L 44,964-720-206-A-QRP
K2EYH 7680-80-32-A
K2RF 1311-23-19-A

Southern New Jersey

W2YK 726,408-1062-228-C-AB
N2CQ 450,870-791-190-B
K2BU 386,460-678-190-C
W2OR 378,890-664-190-C
N3RG/2 288,083-557-173-C
AB2E 280,575-725-129-C
W2YOF 273,546-546-167-C
W2YD 269,929-716-51-C
W2BYU 233,895-503-155-B
K2QIL 225,288-504-149-C
K2F 207,480-455-152-C
K2BA 161,310-206-95-B
W2EA 155,295-357-145-B
W2ZDU 142,485-413-115-C
W2AU 119-55-101-B
K2JF 106,029-297-119-B
K2HPV 103,896-333-104-B
K3JLJ 32,760-156-70-B
W2BLV 32,090-156-70-B
W2ANPD 23,700-158-50-C
K2BWP 21,576-124-58-B
K2OSV 21,060-130-54-C
W2GTN 15,582-106-49-B
N2AWC 1914-29-22-B
W2ANBM 12,000-100-40-B-20
AF2J 1440-24-20-C
N2IT 62,640-348-60-B-10
W2FGV 48-4-4-C

Western New York

W2TZ 644,170-1090-197-B-AB
W2FTY 259,518-518-167-B
K2SPO 136,890-351-130-C
W2ABM 102,648-329-104-C
W2EVA 88,948-388-113-C
W2PFI 81,810-303-90-B
W2A1RX 59,700-199-100-B
K2A2H 41,228-207-68-C
K2A2HV 30,096-209-48-B
K2ACV 18,810-114-55-B
K2A2O 11,856-76-52-B
W2AAZ(W2AU,opr) 8664-76-38-B
K2ACD 3776-39-28-B
N2FI 816-3-3-B
N2ALK 2625-35-25-B-40
W2ARLQ 9849-67-49-C-20
N2PP 169,632-744-74-B-15
K2SPP 13,660-636-70-B
W2HPF 93,372-502-62-C
W2SEC 42,126-238-59-C
K2A1B 32-18-B
W2ABN 25,245-187-45-B-10
K2S2G 11,700-100-39-B
W2A1CY 81,702-267-102-A-QRP

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Delaware

K3HBP 213,852-502-142-C-AB

W3GL 192,168-409-157-C
K3JL 14,136-124-38-B-10

Eastern Pennsylvania

N3BB 1,550,640-1846-280-C-AB
K3PA 1,210,818-1778-227-C
W3AP 1,003,314-1354-247-C
K3FN 742,995-1045-237-C
W3GU 429,300-675-212-C
K3CY 369,402-638-193-C
W3ARK 349,641-733-159-B
N3AW 341,061-763-149-B
N3HW 332,919-810-137-C
K4JLD/3 283,140-605-156-C
W3EUV 264,696-538-164-C
K3V 253,038-466-181-C
W3GK 240,039-597-149-C
K3IE 172,458-402-143-C
WASZV 151,578-401-126-C
W3GK 150,192-336-149-C
AA3B 135,420-305-148-C
N3BBG 92,391-299-103-B
W3GRS 77,004-186-138-C
N3VV 61,380-220-93-C
W3EAN 56,643-239-79-C
W3BMV 54,273-229-79-C
K3TK 31,678-198-87-B
K3ABK 43,521-163-89-B
K3NL 42,039-173-81-C
W3WYV 24,288-145-57-B
W3PPO 22,320-120-62-C
W3MA 14,022-82-57-C
W3HYJ 13,860-110-42-C
W3JZE 13,674-106-42-C
W3EZH 12,636-81-52-B
W3HMR 7134-58-41-C
W3W 6048-53-51-B
K3EUB 5040-60-28-B-20
W3BCA 1173-23-17-B
W3KIL 672-106-14-B
W3JWV 11,200-57-15-B-15
K3BGT 2673-33-27-C
N3KZ(WAS2F,opr) 116,388-636-61-C-10
W3DCT 75,348-364-69-C
W3PCT 13,800-100-46-C
WA3NHO 48-8-2-C

Maryland - D.C.

K3SA 701,568-1008-232-C-AB
W3UJ 580,788-884-219-C
K3HPG 472,680-780-202-C
K3JTC 421,590-611-230-C
N3AM 351,075-585-159-C
W3AZ 288,192-608-158-B
W3ANQJ 256,530-503-170-B
W3ZZ 34,695-295-107-C
W3ICM 48,384-168-96-C
K3NMC 28,638-129-74-B
W3W 24,928-145-57-B
K3NDQ 17,934-122-49-B
K3DQ 14,100-94-50-C
W3EE 13,358-78-50-C
W3Q 10,530-51-104-C
W3TUX 4455-55-27-B
AG3S 270-10-9-B
K3TW 163,155-745-73-C-10
K3KMO 14,836-36-17-B
K3SX 300-10-10-B
W3EVL 259,017-517-167-A-QRP
K3V5 131,271-329-133-A

Western Pennsylvania

K3LR 1,556,415-1701-305-C-AB
K3MD 775,290-1202-215-C
W3HDH 306,900-620-165-C
N3JL 282,624-489-171-C
AG3H 89,784-258-116-B
W3M3DY 47,304-219-72-B
K3FMH 28,182-156-61-B
W3DKL 15,912-104-51-C
W3IW 10,578-82-43-C
W3FAL 9990-90-37-C
K3V 6744-29-24-C-15
K3BQE 1674-31-18-A-QRP

4

Alabama

N4KG 593,664-773-256-C-AB
KRAF 189,555-385-161-C
W4PZ 147,231-458-137-C
W4BUN 1950-26-25-C
N4AW 56,880-316-60-C-15
K4MG 23,214-146-53-C-10

Georgia

K4BA 809,172-1092-247-C-AB
N4HI 538,740-820-219-B
N4VZ 457,215-815-187-C
N4TZ 133,152-304-146-C
K4GFH 75,240-264-95-B
K4BA 71,710-206-95-B
W4GU 11,655-111-35-B
N4PN 918-18-17-B-160
W4TF/4 40,572-196-69-C-80
W4DXI 31,140-173-60-C-15

Kentucky

W4PRU 528,612-899-196-C-AB
N1GL/4 447,432-724-206-C
W4GMQ 112,572-318-118-C
K4VX 14,766-46-40-B
K4FU 37,701-213-59-C-40
K4AMZ 19,890-130-51-B-15
K44MF 25,578-203-41-B-10

North Carolina

N4AA 830,655-1465-189-C-AB
AA4NC 496,203-857-193-C
W5YSM/4 217,305-439-165-B
AA4S 125,367-319-131-C

N4MO 109,305-347-105-C
AA4NN 66,264-251-88-C
W6NWS/4 35,292-173-68-B
N4BYB 17,712-123-48-B
W4DGL 11,280-80-47-C
W4AZXA 3870-43-30-C
N4BYB 36,456-217-96-C-40
K4UWH 153,576-648-79-C-10
K4JO 6699-77-29-A-QRP

Northern Florida

NE4F 137,472-358-128-C-AB
W2AW/4 131,052-326-134-B
W4WVK 103,683-323-107-C
N4BQ 33,048-153-72-C
W4VJ 36,456-217-96-C-40
W4A50 32,175-195-55-C
W4WHK 52,182-223-78-B-15
N4WW 239,850-1025-78-C-10
W41IR 5742-58-33-B
K4AKID 1404-26-18-B

South Carolina

K4WJT 303,537-559-181-C-AB
AE4Y 291,276-522-186-C
K0EJ/4 140,850-313-150-B
W4ATTN 14,488-44-34-B
AA4V 13,113-93-47-C-80

Southern Florida

W4BV 245,952-448-183-C-AB
W4DAHZ 190,260-420-151-B
W4YN 69,300-210-110-C
K4JRF 67,689-207-109-C
W4KQ 67,362-218-103-C
N4DMI 10,863-71-51-C
N4AZ 7410-65-38-B
K4KUZ 1944-31-24-C
N4IN 21,941-104-160-B
W4OSN 765-17-15-B
N4AW 34,692-196-59-C-40
W4B1 32,760-168-65-C
W4TDH 154,770-670-77-C-10
W1YG 130,356-612-71-B
W4OML 43,740-270-54-C
N4BP 22,275-165-45-A-QRP

Tennessee

K4XU 829,470-1286-215-C-AB
AB4H 616,896-952-216-C
K4AMC 833,007-1039-171-C
N4IR 238,941-573-139-C
W4A4K 120,888-292-138-B
W4BEBX 77,361-241-107-B
K4ARJC 73,440-240-102-B
W4OQG 33,930-130-87-B
N4CI 32,760-168-65-C
W4D1G 29,070-170-87-B
AA4AK 3999-43-31-C-80
W4JD 109,503-529-69-C-15
W4GZ 22,636-127-74-C-20
W41V 41,790-199-70-A-QRP

Virginia

N4RV(N3TR,opr) 1,139,985-1551-245-C-AB
N4DW 921,000-1228-250-C
N4B 877,656-1261-232-C-80
N4EA 720,360-920-261-C
W3YV 424,530-795-178-C
K2Y 323,565-688-185-C
N4ND 151,079-569-155-C
W4RW 197,127-441-149-C
N4MM 139,302-327-142-C
N4R 120,935-351-115-C
K4GKD 112,800-400-94-C
W4GFP 90,630-285-106-B
N4B1E 87,442-481-71-C
W4DF 35,250-150-65-C
W4KMS 27,378-117-78-C
K4OD 25,230-145-58-B
K4GW 15,840-110-48-C-80
W4LQ 6270-55-38-B
W4MVA 46,270-183-38-C-20
W4KFC 43,560-220-66-C-10
K75V/4 247,860-918-90-C-15
AA4M 176,640-736-80-C
K3DAQ 151,888-565-77-C
W4RX 243,486-1002-81-C-10
K4CTY 57,288-341-56-C

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Arkansas

W5SSOG 172,620-411-140-C-AB
K0VGB 64,512-224-96-B
W5RSH 45,350-183-38-B
K5UR 34,953-191-61-C-80
W5E1J 3441-37-31-C-10

Louisiana

W5ZR 497,904-1012-164-C-AB
W5IGD 259,992-555-157-C
K5EOA 228,195-461-165-C
K5KLA 103,824-309-112-C
W5OB 79,920-240-118-C
W5HEZ 71,583-223-107-C
W5SZD 11,700-114-50-C
K4BBER/5 10,200-91-40-B
W5WU 243,006-1015-80-C-15
K5KU 132,600-1015-80-C-15

Mississippi

W5OYU 88,200-280-105-C-AB

New Mexico

AA5B 217,764-526-138-B-AB
W5Z 10,444-18-18-B
W5TVX 14,310-159-30-B-15

Northern Texas

K5NW 843,822-1086-259-C-AB
N5AU 833,907-1193-233-C
W5R 825,920-1099-168-B
K5MR 692,475-1319-175-C
AF5K 525,816-804-218-C
K5G 499,102-699-166-B
K5M5X 295,680-704-140-B
K5W 285,570-570-167-C
K5LP 262,566-608-144-B
K5FUV 231,192-494-156-C
W5LSF 231,192-494-156-C
K5AQ 217,566-474-153-C
K5EC 120,917-501-39-B
K5MH 105,987-343-103-C

W5RT 94,176-327-96-C
W5KFT 54,648-198-92-B
K2SCLU/5 47,808-192-83-B
W5V 17,712-123-48-B
W5UPV 14,742-117-42-C
W5ONL 11,799-69-57-C
N5F 36-3-3-B
W5UN 164,010-710-77-C-40
N5UD 10,878-98-37-C
K9MK/5 9126-78-39-B
K5LC 245,378-572-143-C
K5GY 4248-59-24-C
N5CR 208,086-878-79-C-15
N5EG 15,004-178-53-B
W5MYA 144,342-729-66-C-10
K8TD/5 18-3-2-B

Oklahoma

KM5H 367,728-752-163-C-AB
N5GE 245,378-572-143-C
W5AS 2376-44-18-C
K5SI 5115-55-31-B-40
K5WE 336-14-8-C-20

Southern Texas

KNSH 649,005-883-245-C-AB
N5BA 366,078-

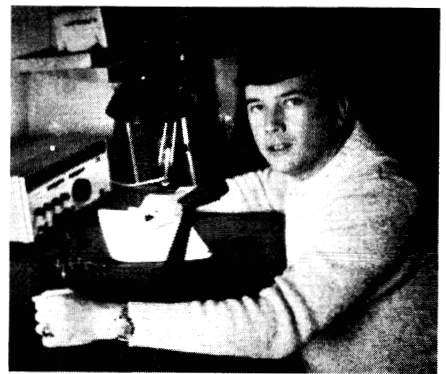




Dale, VU2SL, runs 100 watts to a two-element monoband (20-meter) Yagi at 30 meters.



The operators at AI6V preparing to give it a go on cw. Forty-eight hours and 3.7 million points later, they had the number 12 multi-multi cw score in the world.



CT2DP (WØXZ), a welcome multiplier in 813 logs on phone.

JA7EC	21,609	147	49-B	JR6KR1	50,400	200	84-A	DK3BN	12,825	95	45-A	OE3RE	54,201	203	89-B	OK3IF	26,865	199	45-B
JA9FT	21,373	127	52-C	JA7GF	44,555	229	55-A	E2A1A	2,302,977	2987	257-C-AB	OE1JBB	4800	50	32-B	OK2KRT	23,625	175	45-C
JA11X	19,584	136	46-B	JA1KFX	38,850	185	70-A	E3AR3A	164,730	578	95-B	OE1D5A/3	94,446	583	54-C-10	OK1DGN	21,033	171	41-B
JA1THL	19,188	123	52-B	JA1BN	27,027	231	39-A	E45YU	105,300	325	108-B	OE5KKA	86,813	548	53-C	OK1FRA	21,027	163	43-B
JH1SS	15,525	73	44-C	JA2DN	13,365	135	33-A	E45YU	105,300	325	108-B	OE10PW/3	12,741	137	31-B	OK2KNN	19,350	150	43-B
JA1BZM	17,116	111	52-B	JH3WRE	11,844	49	42-A	E41JO	69,153	259	89-C	OH6DH	200,250	534	125-B-AB	OK2BRZ	7644	91	28-B
JA6LYV	16,650	111	50-B	JA4JKD	9396	87	36-A	E43GF	11,703	83	47-B	OH8LB	123,165	357	115-B	OK2BJR	6660	74	30-B
JA3ARM	16,113	131	41-C	JA1EIA	5670	63	30-A	E42CR	10,374	91	38-B	OH2F5	125,580	455	92-C	OK1YXK	4875	65	25-B
JR7LNP	15,795	167	45-B	JA6MS/1	5184	54	32-A	E42OP	55,566	441	42-C-80	OH5JU	118,116	386	102-B	OK3YDP	2280	38	20-B
JA1KXT	13,365	99	45-B	JA5XB	450	15	10-A	E44BV	5070	65	26-B	OH6MM	104,528	335	104-C	OK3CGP	22,317	173	43-A-QRP
JA3OLI	8400	80	35-B	OD5LX	35,250	250	47-C-20	E47ALG	68,943	469	49-B-40	OH3LA	104,528	335	104-C	OK49BI	14,469	91	53-B-10
JA1HQS	7872	82	32-B	UD6CN	24,255	165	49-B-AB	E48V	5795	65	26-B	OH1QB	39,330	138	95-C	OK1DKW	1170	26	15-A
JH1AV7	7854	77	34-B	UD6KW	16,605	123	45-B	E49V	5070	65	26-B	OH7NW	26,790	95	94-C	ON8RD	520,275	991	175-B-AB
JF1LKM	7254	62	39-B	UD6DLJ	10,776	106	31-B-20	E49V	5070	65	26-B	OH6GO	5400	72	25-C-40	ON4XG	360,480	751	160-B
JH2XTV	4896	51	32-B	UF6C	1875	105	25-B-20	E49V	5070	65	26-B	OH6DC	2510	40	21-B	ON7BV	11,016	108	34-B-15
JL1QGB	3627	39	31-B	UH8BO	15,435	105	49-B-AB	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	ON6FT	133,719	85	53-B-10
JA1AJA	3213	51	31-B	UH8EA	76,626	473	54-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	ON5T	474	85	53-B-10
JA9BV	2268	36	21-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	ON6NL	29,256	212	46-A-QRP
JA7AQU	855	19	15-C-160	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1BK	8613	99	25-B-80	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA6LJ	120	8	5-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1SJV	14,070	134	35-B-80	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1EJ	8613	99	25-B-80	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1CB1	7980	95	28-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA3BCT	627	19	11-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1KSC	92,826	573	54-B-40	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JE1ED	780	19	17-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JJ1DBA	5976	83	24-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JK1R1U	3060	60	17-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JF3CCN	2580	47	34-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH7BDS	2451	43	19-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JL1VHR	2064	43	16-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA19K	1140	39	10-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH1CCN	960	38	10-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH0BBE	756	28	9-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA4AQR	342	19	6-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA4RHA	162,288	866	55-B-20	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH1PB	133,560	795	56-B-20	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA5W	36,156	262	46-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JF1MYI	16,740	155	36-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JG1QSQ	9240	88	5-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1KKA	2394	38	21-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1AV1	2040	40	17-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1FMA	780	19	17-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH1BBU	182,325	1105	55-C-15	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH3LPT	158,565	961	55-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA2VUP	153,120	928	55-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JE1LJK	142,800	819	54-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JH3CXL	124,740	770	54-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JF1PUW	112,035	679	55-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA9VBJ	97,350	590	45-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JG1TSF	96,990	610	53-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JK1AFA/3	80,931	509	53-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA3MFE	75,750	505	50-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JE1AYU	64,150	510	45-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JE3UNA	48,240	335	48-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA1CSB	36,720	272	45-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JK1NAE	31,050	225	46-B	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,010,663	2781	241-C-AB
JA9NA	28,890	214	45-C	U18C	1075	105	25-B-20	E19J	585,123	1043	187-B-AB	OH6GZ	202,122	1182	57-C-20	OZ1O	2,01		

SP9HWN	62,775-225-93-B	Y06ADW	148-8-7-B	VK4SF	14,406-98-49-A-QRP	HA8KAZ(5 ops)	341,037-743-153-B	YU2CBV(YU2RRA+2 ops)	612,408-1292-158-C
SP9BBH	40,128-209-64-B	Y02BEH	20,196-187-36-B-20	South America		HA5KJC(5 ops)	329,272-746-144-B	Y39ZO(Y39S XU,OO,UD ops)	1,143,882-184-270-C
SP5JOE(ops)		Y09YEI	18,240-160-38-B	N9NO/CE9A	309,285-711-145-C-AB	HA1KZD(HA1S ZD,ZG,ZU ops)	275,859-601-153-B	Y35ZK(Multiop)	61,254-246-83-B
SP9DTH	16,740-124-45-B	Y03R9	5925-79-25-B	HC1MD	50,304-262-64-C-AB	HA8KAX(Multiop)	1,228-225-675-113-B	North America	
SP9BZP	12,960-144-30-B	Y06E2	4851-77-21-B	HC2BW	1224-24-17-C	HA4KYH(HA4S YO,YG,XG,XX ops)	225,120-560-134-B	FMFOL(W6s KG,QL ops)	1,839,960-2280-269-B
SP9RFR	7884-73-36-B	Y05BRZ	2451-43-19-B	HK3YH	77,532-497-52-B-80	HA5KHG(5 ops)	1,84,441-507-121-B	HA9KSF(3 ops)	154,560-444-115-B
SP6DMJ	6120-60-34-B	Y07AWQ	1044-29-12-B	LU1EWL	42,267-193-73-B-AB	HA1KSL(3 ops)	131,670-385-114-C	HA9KSD(Multiop)	116,064-372-104-B
SP3IOE	855-19-15-B	Y08BSE	1008-42-8-B	LU2KAK(SM5G,SW,OP)	39,186-311-42-C-10	HA8KWG(6 ops)	91,800-360-85-B	HA2KMR(4 ops)	76,995-295-87-C
SP8ADJ	5848-80-80-B	Y02CAB	214,200-845-34-B-AB	OA8CP	291,024-564-172-B-AB	HA5KGS(Multiop)	47,520-200-72-B	HA3KDB(3 ops)	36,750-175-70-B
SP5XJ	144-8-6-B	YU3DKR	183,438-474-129-B	OA4FW	9024-94-32-B-80	OH9AB(OH9S PH,SS,UW ops)	240,264-564-142-B	OH2TI(OH1CQ,OH6S DG,GV)	76,406-364-70-B
SP5CJX	17,353-167-35-B-40	YU4VBR	183,120-436-140-B	OA8V	459-17-9-A-QRP	OK1KSO(OK1S AEZ,AMF,JCW,JB,B,JKT,JVA,T,ST,SR,SC)	232,220-1867-220-C	OK1KPA(OK1S AFC,MHI,MUK,ZL ops)	766,350-1310-195-C
SP4EEZ	11,790-131-30-B	YU1NZW	162,432-423-128-B	WB1BH/PJ2	2,498,688-2892-288-C-AB	OK3KTY(OK3CMF+2 Loggers)	281,400-700-134-C	OK3KEE(Multiop)	244,088-637-128-B
SP5TR	18,106-74-23-B	YU7NGC	136,269-441-103-B	PY1BHB	44,178-199-74-B-AB	OK2UAS(OK2S LG,WHT,OP)	176,778-427-138-C	OK3KYR(Multiop)	54,889-439-117-B
SP3LWP	4278-62-23-B	YU2SDX	31,557-157-67-B	PY1BOA	30,096-228-44-B-5C	OK1KYS(OK1S DEV,FRF,OP)	69,387-229-101-C	OK2KWU(OK2S HB,OP)	20,535-185-37-B
SP9EMJ	2244-44-17-C	YU7ORQ	8241-67-41-C	PY8ZLC	103,680-640-54-C-15	OK1OX(P Multiop)	19,188-149-44-B	OK1KTW	7482-86-29-C
SP2JGK	432-16-9-B	YU3TQJ	247-75-34-B	PY2SHI	25,623-219-39-B-10	ON6BR(ON6SVA,ON6S DX,JA,JN,OU,ON7S HW,PY,GU,XN,OP)	541,089-1019-177-B	OZ5EDR(OZ3QN,OZ8S AE,OQ,W,OP)	428,160-892-160-C
SP9JRA	1798-133-6-B	YU4FRS(YU4VQT,OP)	101,712-652-52-C-40	PY25HI	25,623-219-39-B-10	PA0GN(+PA0S E,GIN)	1,275,165-1977-215-B	SL2ZZU(SM2S CEW,EKM,EUO,GET,GN,OP)	1,877,732-2938-213-C
SP2FOV	21,177-181-39-B-20	YU3TGB	66,297-451-49-C	PY1BHU	44,178-199-74-B-AB	SM5GMG(+SM5GN,OP)	1,696,545-2655-213-C	SK1A(QSM1ALH+others)	901,503-1557-193-C
SP5EEB	14,326-154-31-B	YU7PFT	106,947-699-51-B-20	PY1BOA	30,096-228-44-B-5C	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP8EMO	5303-77-23-B	YU4YA	106,260-644-55-C	PY8ZLC	103,680-640-54-C-15	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP2EFU	4140-60-23-B	YU7OCZ	36,378-258-47-C	PY1VT	8,148-533-52-B	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP9DH	2052-38-18-B	YU3TOK	35,320-286-40-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP1KBU	6436-74-23-B	YU7ECD(YU7QDA,OP)	21,360-178-40-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP4INT	49,914-354-47-B-15	YU2WJ	21,360-178-40-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP9CTW	39,019-289-45-B	YU2RR1	8100-90-30-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP5BR	367-8-8-B	YU3NP	4914-63-26-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP3HYK	20,541-167-41-B	YU4M	15,868-118-59-B-15	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP7AWA	7290-81-30-B	YU2OG	82,161-584-51-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP4NR	60,413-46-30-B	YU1NUY	71,760-160-52-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP3KEY	203,112-1209-56-B-10	YU1NYU	18,630-138-45-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP9CAV	63,336-423-52-B	YU2QR	7850-75-34-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP5AD	54,468-356-51-B	YU4GD	131,712-784-56-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP5IQ	174-2-2-B	YU7OCV	100,440-620-54-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SP6AND	2070-46-15-A-QRP	YU4FS	62,928-456-46-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SV0AT	217,350-630-115-B-AB	YU3T2P	270,135-621-145-A-QRP	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SV0AV	146,349-483-101-B	YU3B	270,135-621-145-A-QRP	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SV0AV	98,982-351-94-B	YU3TMJ	264-11-8-A	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
SV0AV/9(WB5WRY,ops)	6138-62-33-B-AB	YU1NPF	75-5-5-A	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
TF3YH	317,520-1890-56-C-15	Y51XE	115,854-438-111-B-AB	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW6CA	517,080-1240-139-B-AB	Y31OA	111,435-391-95-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3HY	207,504-524-132-B	Y38T	93,922-318-98-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW4HFK	184,080-472-130-B	Y31XF	66,792-253-88-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3JUV	170,280-473-120-B	Y41ZH	46,560-194-80-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3ABO	143,340-463-120-B	Y21SK	43,608-184-79-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW4C	109,461-341-107-B	Y22EO	42,840-210-68-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3XP	79,650-295-90-B	Y24GE	42,480-171-80-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3AAH	60,258-242-83-B	Y39VD	40,608-188-72-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW1NW	54,468-356-51-B	Y23LM	26,520-136-65-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3ER	20,114-138-51-B	Y38WG	24,768-129-64-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3RAL	12,360-103-40-B	Y41ZB	43,608-184-79-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y23CM	14,688-97-51-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y42VB	14,040-104-45-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y22HF	11,817-101-39-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y25GS	7455-71-35-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y22YJ	6240-65-32-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y48TJ	42,632-29-29-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y23RJ	2880-40-24-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y24EA	2160-36-20-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y47WJ	1326-34-14-B-80	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y23UJ	97,814-629-74-B-40	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y33VA	16,485-157-35-C	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y41ZC	17,420-103-45-B-20	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y67ZG	27,090-210-43-B-20	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y27VH	24,123-187-43-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y24MH	23,493-191-41-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y47B	44-12-6-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y261H	1116-31-12-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y31ZE	660-20-11-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y51Z	48,541-317-51-B-15	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y55XG	40,500-270-50-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y37ZE	17,400-142-42-B	PY25HI	25,623-219-39-B-10	SP6ZVP(SP6S ANY,ATG,LMY,LTF,OP)	610,327-1318-180-C	SP1KAW(SM1ALH+others)	901,503-1557-193-C
UW3EAO	1092-26-14-B-80	Y39QA	17,400-145-40-B	PY25HI	25,623-219-39-B-1				