

Results, 46th Annual ARRL November Sweepstakes

How Sweep It Is!

By Tom Frenaye,* K1KI and Bill Jennings,** K1WJ

The peak of sunspot cycle apparently coincided with Sweepstakes in 1979. The solar flux ranged from 210 during the cw weekend to 230 during the phone weekend, with mufs reaching above 50 MHz. As a result, those aiming for section or national titles found things a bit more complicated. Activity seemed to grow on 10 meters and wither away on 80 meters.

The statistics say that the number of entries was down by 18%, perhaps indicating that some people found the delights of DXing a bit more to their liking. Logs totalled 2451 (1203 cw and 1248 phone) and were received from all sections except Yukon-NWT. We may have missed a clean sweep, but the logs indicated that it must have been everyone else's year for the "sweep." The deletion of the Canal Zone as a section may have helped make the way easier, on cw anyway, but in all, 478 clean sweeps were recorded. Sweeps are easy enough to spot in the score listings; thus you'll only find a sweep box for those call signs that made it on *both* modes. Makes you begin to wonder if a clean sweep is valued more than the section or division leader spot!

Despite the high levels of solar activity, it doesn't appear that the composition of the top-10 scorers varied much from previous years. Phone scores were dominated by West Coast and Mountain State entries, with a token East Coast entry, while cw scores nearly split evenly between the East and West. Scores were down very slightly among the top 10, though K2TR, operating from KP4Q, garnered the record high phone score. Operating from KP2A during the cw weekend, K2TR nearly broke the cw record despite his claims about not being a cw operator. When was the last time one operator claimed both titles?

Division records didn't fall as easily as they did last year (do they ever?) but there are 27 new division records on file now. The Atlantic,



WB0SXH, phoneman, Minnesota.



W5YZ, top low-power cw score from New Mexico.



KA5CHW operated station K5RC to the top of the cw heap in Southern Texas.

Pacific and Southwestern Division records were broken on both modes in the high-power category, while the Midwest, New England and Northwestern Division records fell in the low-power category on both modes.

The number of clubs submitting scores dropped to 85 this year, and, in general, so did most club scores themselves. The Northern California Contest Club was again the winner in the unlimited category, nearly matching their record total from last year and more than doubling their closest competition's score. The biggest gain in score goes to the Ill-Wind Contesters, with double the entries and nearly triple the score of last year. The Yankee Clipper Contest Club moved into the medium-class category this year with a substantial drop in points and entries, but edging Murphy's Marauders for the top spot. The local club competition proved to be the closest race. The South Jersey Contest Coalition edged out strong competition from the Machine Contest Club and Willamette Valley DX Club for the honors.

The new call sign-vs.-dupe sheet problem seems to have reached the saturation point. Where do you put the AJs on the sheet? How about the KA? With the SS package of forms, we offer a pretty fair dupe sheet that is quite usable up to (if you can print in characters less than 1 inch in height) and well over 500 QSOs per sheet. We'll take almost any form of dupe sheet as long as it is in some alphanumeric order. Those of you with home computers at your disposal have it made. Those of us without those sophisticated electronic toys have a slightly tougher row to hoe, but a little thought and some quick work with a pen and paper should solve your own dupe-sheet dilemma. End of problem.

One of the hardest things to do after a contest is to sit down and figure out just what you should have been able to do better and how you might improve your station. Notes taken right

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K3LR, seated on the left, WB3EVB, and AF3P, standing — three-fifths of the *number one*, phone, multioperator crew in the 1979 Sweepstakes. K3LR, in a single-op. effort, turned in the number-four cw score, also.

after the contest, while it is still fresh in your mind, are probably the best way to start. You might not want to look at them for a few weeks or months but when you gear up for next year's contest, you'll find the notes useful in planning. A second useful tool is the score listings themselves. Compare your score with those who you know to have similar stations. Make up a sheet showing your QSO rates per hour and band changes during the contest and trade it with someone in your area who had a bigger total (there is always someone with a bigger score, it seems). From that you can perhaps discover where you've fallen short.

There are a lot of things to consider: What band do you start on? How many QSOs can you make in the first hour? When do you change bands? When do you sleep? Should you just take short timeoffs? Call CQ or hunt and peck? Those questions have very different answers depending upon your station, your operating abilities and your QTH. The graph and chart shown on the next page may give you

some ideas in planning for next year. The chart showing first-hour QSOs compared with total QSOs was made from logs received for the cw weekend. If you had 1000 QSOs, you should have worked about 65 during the first hour. If you had fewer, maybe you need some extra warmup next time. If you had more, maybe you scheduled your timeouts poorly or your endurance isn't what it used to be. The chart shows some additional comparisons. Big differences can be seen in the strategy involved. Some people find it necessary to make very few band changes, while others seem to do it several times per hour. On cw, East Coast stations made several band changes in order to keep up the high rates. The last hour of the contest was generally spent on 40 and 80 in the East and 20 and 40 in the West. On phone, 10 meters was the place to be if you were in the West, though QSO rates seemed to drop the farther north you went. Perhaps the biggest difference in strategy can be seen in the graph

showing the top East and West Coast scores broken down into QSOs per band (Caribbean scores weren't included for obvious reasons). Forty meters was the big producer in the east, while in the West 10 meters was by far the best. And 20 and 15 seemed best on cw.

It might be worth a few minutes of your time to compare your strategy against the number three low-power phone and cw entries of K0EU and N2IC, respectively. To maximize usefulness of these types of comparisons, you might want to get your local contest club together and have each operator do one for his/her SS efforts to be made available to all club members, with an eye toward improving the club aggregate in SS in 1981.

Anyway you look at it, there are many ways to compare and many more factors involved in the equation that produces your final score. Do you have any preferences for how you'd like to see SS scores (or any others) compared in future articles, within the limits of the space available? Drop us a line and let us know.

Division Leaders — Phone

<i>Division</i>	<i>High Power</i>	<i>Low Power</i>	<i>Multioperator</i>
Atlantic	K3UA*	N2ALK	AF3P
Central	W9RE*	K9ZO	W9TM
Dakota	K0KX	K0FRP*	W0SA
Delta	W5WMU*	N4NT	W5XZ
Great Lakes	K8LX	W8JWN	WB8JBM
Hudson	W2PV*	W2XL	WA2JAS
Midwest	K5ZN/0*	WB0ISW*	AB0S
New England	K1VTM*	N1YY*	W1LJ
Northwestern	K7RI	W7XN*	W7ZR
Pacific	WA7NIN*	WB6SHD	K6OYE
Roanoke	K3NA/4	WA4UY	AD8J
Rocky Mountain	K0RF*	K0EU	KB7EC
Southeastern	KP4Q*	KB4I*	K4HYE
Southwestern	N6TR*	N7US*	W6TAG
West Gulf	K5GA	K5SR	K5RX
Canadian	VE5DX*	VE5ACS	—

*new record

CW

<i>Division</i>	<i>High Power</i>	<i>Low Power</i>	<i>Single Operator</i>
Atlantic	K3LR*	K3TM	K3KU
Central	W9NA	K9ZO	N9TG
Dakota	W0ZZ	N0NO	K0TK
Delta	K5GO	N5XR	AD5M
Great Lakes	W8UA	K8EKG	K8ND
Hudson	W2YV	N2IC*	KA2ACM
Midwest	WA0VKF	K0LUZ*	K0WA
New England	K1PR	W1ZT*	W1LJ
Northwestern	W7NI	K7UR*	K7QA
Pacific	WA7NIN*	AD7K*	K6RLY
Roanoke	K4VX	WB8AKQ	K4AF
Rocky Mountain	W0CP	N7DF*	WD0EGE
Southeastern	KP2A	K4VFY/4	N4UF
Southwestern	K7KW*	K6WI	WA6SFM
West Gulf	K5RC	WB5WFB	WB5TGK
Canadian	VE7CC	VE4VV*	VE3ART/3

Top Ten — Single Operator

Cw	
KP2A	187,960-1282-74
W7KW	182,464-1233-74
WA7NIN	181,892-1229-74
K3LR	178,192-1204-74
K6LL/7	174,196-1177-74
N6TR	173,752-1174-74
K3UA	170,792-1154-74
W2YV	170,792-1154-74
W3LPL	170,200-1150-74
K5GO	169,016-1142-74

Phone

KP4Q	351,796-2377-74
WA7NIN	318,792-2154-74
VE5DX	288,896-1952-74
K0RF	288,304-1948-74
K7SS/KH6	283,716-1917-74
K7RI	282,236-1907-74
VE7CC	278,832-1884-74
W7RM	267,288-1806-74
W2PV	259,148-1751-74
W6XR	257,224-1738-74

Low-Power Champs

Cw	
VE4VV	155,198-1063-73
N7DF	150,234-1029-73
N2IC	139,416-942-74
W2CS	138,380-935-74
N5XR	134,532-909-74
N0NO	131,254-899-73
K0EU	130,752-908-72
K0LUZ	130,378-893-73
K4XU	127,458-873-73
AD7K	127,312-872-73

Phone

W7XN	180,264-1218-74
N7US	170,644-1153-74
K0EU	163,984-1108-74
W7UV	161,912-1094-74
W0UA	157,572-1064-74
N1YY	157,028-1061-74
N0CP	155,844-1053-74
AA5B	154,216-1042-74
K0FRP	153,476-1037-74
N4NT	152,144-1028-74

SOAPBOX

Low power and bad antenna systems are not conducive to high score. Thanks for allowing us to enter for the umpteenth year in a row and, as always, dead last in Oklahoma and West Gulf (KN5TTN/K5QNM). It would be interesting to see what would happen if stations were to be worked once *per band!* (WBBDOP). Wyoming is an elusive multiplier when you live right next to it here in Montana. Finally snagged it towards the end of the contest on, of all bands, 10 meters — backscatter! (W7JYW). I was beginning to think that Hawaii had sunk into the Pacific Ocean. You'll notice that Pac was my last multiplier and I snagged it about one hour before the end of the contest. I had reached the 73 multiplier stage about half way through the contest (WB0MWJ). I must be doing something right. My score is much higher than last year's despite a few problems and reduced operating time (KB8FJ). A self-addressed, stamped envelope is almost a requirement when sending for a QSL from that "rare" State, which you worked in the SS (K3JFZ/3-Del.). My first phone SS after eight years in the cw portion (AA6EE). I broke a lot of personal records in this SS; 1st clean sweep, 1st score over 100k,

1st time in three years my tower didn't come down in a storm. . . . But wasn't in North Dakota this year . . . even got a few QSLs for North Dakota. . . . Don't rely on your *Callbook* to fill in the exchanges; get it right during your contest QSO (K0FRP). ALL I want for Christmas is a VE8 for the clean sweep (N4QB). 79% of my phone QSOs were on 10 meters. The band was wide open all weekend (W7CRD). Finally found a Delaware station after trying since 1967 from places all over the world. I was beginning to think that I was a banned country for Delaware. . . . Now if I can only find Maine! (WB7TJJ). Just put up a temporary vertical on Saturday afternoon, turned on the rig and much to my surprise, there was SS. What is a fellow to do but jump in and rip off a few? (AB6R). Waited my turn to work a VE8 on 10 who was working by call areas. Missed both times. Went to the lower end of 10 and found a VY1 who was calling "CQ" and getting no answers. My first sweep in 10 years (K8GSR). Yes, Vermont really does exist! (WB1HCT). *Warning!* Vanity calls (N, AF, AI, etc.) are hazardous to your cross check sheets (W0PPJ). I took your advice from last year and gave WD9GUR hell! *And I beat him!* It sure helps to have someone with whom you can compete. During the contest I heard WD9GUR 20 or so

Top Five — Multioperator

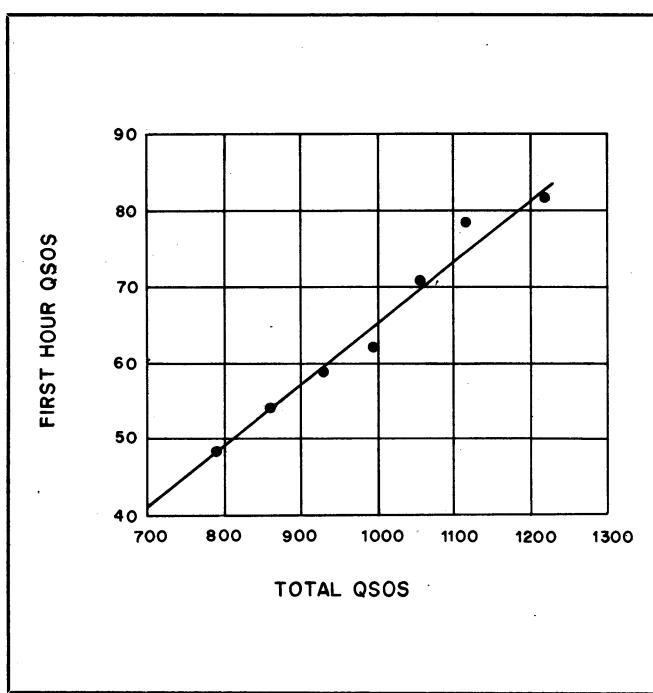
Cw	
K6RLY	146,292-1002-73
K0WA	144,394-989-73
K8ND	142,080-960-74
AA6G	136,802-937-73
K3KU	134,088-906-74

Phone	
AF3P	233,692-1579-74
K6OYE	230,732-1559-74
W7ZR	230,732-1559-74
AB0S	224,960-1520-74
AA6G	216,376-1462-74

Clean Sweep — Both Modes

K1PR K1XA W1WEF N1JW W1LJ K1VR
K1MEM K1RX K1UM N1YY W2PV K2AU N2IC
N2CQ WA2ECA W3LPL K3SA K3RA K2PLF/3
K3UA K4HAV K4FU N4AA N4SA K4PJ W4MYA
N5JB N6RO K6XO N6KB N6VV N6NE K6PJY
K6OYE WA6SMF N6TR N6GJ N6BT N6XI
N6MG K6RU K6BR N6BV K7SV/6 W6BIP K6SG
W7KW K6LL/7 W7JYW WA7NIN W7NI N7ZZ
N7AM W8UM K8ND WB8JBM K9RS K9BGL
K9ZO K0DEQ VE7CC

QSOs ahead of me and that woke me up enough to keep going (WD0FGY). Yes, sports fans, N0CP and W0CP are both in Denver, Colorado. This was my first try at SS and it was a pleasure to use a contest exchange that meant something instead of the usual RST and state. I would like to see this type of exchange, especially the serial numbers, used in other contests (N0CP). Interesting to see if my comments make the soapbox this year! (WB2KHE). [Sure did — Ed.] If your records go back to 1948, '49, or '50, you'll find that I was the top scorer on phone for one of those years, with 804 contacts in the then 73 sections, I believe. SSB and better operating procedures have resulted in double the contacts in much less time. That's progress! (W6QEY). [In the 1949 phone portion of SS, W6QEY was one of only three stations to break the 100-k point barrier. This was the first time in SS history that it had been done. Pete had 805 QSOs and 72 sections. — Ed.] This started out as a way to get the last few states for my WAS, but that only took

**Top Ten Scores Compared**

Cw	First hour		Last hour		Band Changes
	QSOs	Band	QSOs	Band	
KP2A	67	10 meters	46	20	15
W7KW	84	10	39	20/40	36
WA7NIN	83	10	39	20/40	34
K3LR	83	10/15/20/40	39	40/80	81
K6LL/7	76	15	43	20/40	14
N6TR	87	10	29	20/40	53
K3UA	90	10/15/20/40	35	40/80	71
W2YV	89	10/15/20/40	31	20/40/80	138
W3LPL	76	10/15	35	40/80	34
K5GO	73	20	42	40	21

Phone	
KP4Q	150
WA7NIN	134
VE5DX	116
K0RF	154
K7SS/KH6	71
K7RI	123
VE7CC	127
W7RM	114
W2PV	134
W6XR	133

QSOs Per Band — East vs. West					
80	40	20	15	10	
Phone	WA7NIN	78	176	383	495
	W2PV	128	899	135	382
Cw	W7KW	141	166	334	326
	K3LR	252	550	254	92

1979 Sweepstakes, cw: first-hour QSOs vs. total QSOs.



K0SCM — 213 k points and first place on phone from Nebraska.

an hour. What the heck, why not try for WAS all over again. That was easy too. It took a total of about 70 contacts to get all 50 states. Well, I couldn't stop there so I went for all sections. Didn't make it, but I blame it on the fact that I didn't know that I was going to want NLI, VE8 and SV. This was my first SS in 22 years of this hobby (W4WWQ). Some negative reactions from the "usual stuffy" crowd on 75 and 40 meters to the contest. However, it did provide them with a *fresh* subject! (WB6NFO). Not a clean sweep, but did manage to raise a little dust (WB9BIO). I managed to work two Qs on 40 meters before I discovered the vertical had fallen down (N6ST). What a time to catch mono! . . . Here's hoping I'm in better health next year. I'm too old for these teenage social diseases! (N9CR). This contest is four hours too long . . . time to switch to the new CD Party format for SS next year (KA1FJ). There ought to be a multiplier for operating from a car. This entry represents 10 hours of operating parked in front of my house (antenna restrictions) with the engine running — hi! (K3ZNV). Just completed my 46th ARRL SS (W6BIP). I worked K3YL then got K3OM (N4AWZ). Very disappointed. Some of the high-speed cw operators need to QRS when asked to do so (WB8WEZ). The thrill of the contact, the agony of the repeat (W3CEI). If more recognition was given to low-power participants, it might encourage more operators to go the low-power route and conserve energy. There is no reason why anyone should have to use more than 200 watts in a stateside contest (W8LXQ). One horrible change in the SS since the early days, to my mind, was the rudeness shown by some of the "hot shot" operators. If a station asked them for a second fill, they would ignore the request and resume calling "CQ SS," but I'd bet money that they counted that QSO as two points. I thought the idea behind this thing was to teach operation, cooperation and sportsmanship (W7FJZ). I note that although the average licensing period of the participants is 16 years, there are still a few OTs active in the 40-year-plus bracket (VO1AW).

Affiliated-Club Competition

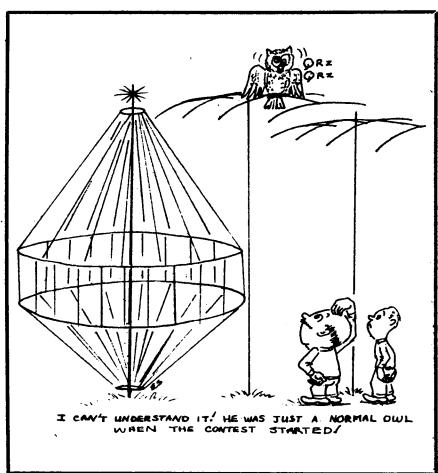
Club	Score	Entries	Phone Winner	Cw Winner
<i>Unlimited Class</i>				
Northern California Contest Club	14,475,152	138	WA7NIN	WA7NIN
Potomac Valley RC	7,085,020	83	K3NA/4	W3LPL
III Wind Contesters	4,911,914	57	W9RE	W9RW
<i>Medium Class</i>				
Yankee Clipper Contest Club	3,835,138	38	W2PV	W2YV
Murphy's Marauders	3,320,874	35	K1VTM	K1PR
Mad River Radio Club	2,943,262	28	K8LX	K3LR
North Texas Contest Club	2,637,786	31	W5MYA	N5CR
Texas DX Society	2,472,841	34	K5GA	K5RC
Western Washington DX Club	2,136,950	32	K7RI	W7WA
Frankford Radio Club	1,808,795	27	W3MA	W2GD
Wireless Inst. of the Northeast	1,604,254	19	W2RQ	W2RQ/1
Kansas City DX Club	1,365,064	14	WB0TCQ	AB0I
Point Radio Operators Society	1,273,320	20	K3UA	K3UA
South Jersey Radio Assn.	1,029,978	30	K2YY	W2PAU
Central Michigan ARC	1,006,980	28	W8LAQ	W8VPC
Fresno ARC	788,524	12	W6DPD	N6JV
Murgas ARC	778,102	18	WB3FAA	WB3JUK
Kettle Moraine Radio Assn.	677,272	24	N9KS	W9HE
Mid-Missouri ARC	616,092	12	N0SS	N0SS
Saginaw Valley ARA	575,950	17	K8OT	K8OT
Canion ARC	514,852	11	K8FU	K8FU
Motor City RC	494,650	11	K8SIA	K8SIA
Rockford ARA	469,072	20	WD9FVE	WD9DBC
L'anse Creuse ARC	441,678	11	K8DD	K8DD
West Allis RAC	429,048	14	N9AU	K9WTF
Ozarks ARS	406,471	15	AG0Q	WB0OMC
Orange County ARC	374,394	15	WA6LFF	W6LEN
Ramapo Mountain ARC	370,962	13	WB2ARS	WB2ARS
Northern Ohio ARS	345,560	14	N8BKX	K8US
<i>Local Class</i>				
South Jersey Contest Coalition	1,125,636	9	W2KI	N2CQ
Machine Contest Club	1,112,006	10	K8MJZ	AC8Y
Willamette Valley DX Club	1,063,364	7	W7NI	W7NI
Buffalo Area DX Club	898,642	8	WA2ECA	WA2ECA
Colorado Contest Conspiracy	791,580	5	W0CP	—
Radio Club of Tacoma	655,236	8	W7BUN	—
Central Florida DX Assn.	630,368	5	—	N4SA
Overlook Mountain ARC	630,036	9	W2XL	—
Mississippi Valley DX & CC	570,740	4	—	—

Phone

No. 3 Low Power — K0EU — Colorado
Transceiver: TS-520S

Antennas: TA-33 Tribander up 40 feet
40- and 80-Meter Inverted Vees

Hour (Z)	No. of QSOs	Multiplier Total	Band Changes	Time off (minutes)
21	87	23	10	—
22	83	29	10	—
23	79	31	10	—
00	61	43	10-15	—
01	68	46	15	—
02	45	55	15-20	—
03	30	60	20-15-20-40-20	—
04	26	64	20-40	15
05	30	66	40-80	10
06	27	69	80	15
07	41	71	80-20	—
08	15	72	80-40-80	30
09	—	—	—	60
10	—	—	—	60
11	—	—	—	60
12	—	—	—	60
13	12	—	20-15	30
14	31	—	15	—
15	30	—	15-10	—
16	58	73	10	—
17	31	—	10	20
18	49	—	10-15-10	—
19	37	—	10-15-10	—
20	44	—	15	—
21	35	—	15-10-15	—
22	51	—	15-10	—
23	42	74	10-15	—
00	34	—	10-15	—
01	27	—	10-20-15	—
02	26	—	15-20-15	—
1108 QSOs		74 multipliers	31 band changes	6:00 off time



N7DF had an owl roosting on the 20-meter beam most of Saturday night. Sez the owl quickly changed his tune. Who gives a hoot?

Central Arizona DX Club	559,498	6	N7US	W7KW
Ft. Wayne RC	535,626	8	K9FW	W9LT
Twin City DX Assn.	512,094	3	—	—
Connecticut Wireless Assn.	495,612	6	W1WEF	W1WEF
Bluegrass ARC	491,932	5	—	WB4PRU
Southern California DX Club	485,750	3	—	—
Poughkeepsie ARC	474,408	7	W2HBY	W2CS
Ohio Valley ARA	443,858	6	—	W8RSW
Foothills ARS	434,124	7	N6ST	N6ST
Penn Wireless Assn.	414,434	8	WB3DJF	K3YL
Wisconsin Valley RA	404,616	6	WB9VOZ	—
IBM Owego ARC	397,218	7	—	N2NW
West Park Radiops	379,819	10	W8IDM	K8AAZ
John Brown University ARC	374,884	3	—	—
Sevier County ARC	368,200	7	KF4H	K4XU
Delmont RC	346,148	6	W3LR	W3LR
Western ARA	334,576	6	WB6SKE	—
Central Illinois DX & CC	320,572	3	—	—
Land of Lakes ARC	310,493	7	WA8OWG	W8UMP
North Florida ARS	308,468	9	WD4ETG	W4PTT
Gloucester County ARC	306,434	9	W2YC	K2HPV
Flyweight DX Group	306,364	4	—	—
Northrop RC	276,564	8	W6CN	K6HRT
Ventura County ARC	247,876	6	WA6DJS	—
Reading RC	217,104	4	—	—
Mitre-Bedford ARC	195,224	6	W1FM	W1FM
Great South Bay ARC	193,132	5	—	WB2RNT
Aviation RC of Rockwell Int'l.	185,124	3	—	—
Providence RA — W1OP	182,496	3	WA1TAQ	—
Central Wisconsin RA	180,456	4	—	—
Eastern Iowa DXA	173,230	3	—	—
Coconino County ARC	142,356	3	—	W7YS
Neenah-Menasha ARC	129,134	3	—	—
Blossomland ARA	126,762	4	—	WA0TAQ
Skylands ARC	126,120	3	—	WA2DFC
OH-KY-IN VHF ARS	119,644	4	WA6EZV/B	—
Muskegon Area ARC	118,042	5	K8BP	—
Larkfield ARC	117,852	5	WA2JCX	—
Ithaca ARC	109,660	5	K2SOT	—
Rio Honda ARC	99,426	3	—	—
Rip Van Winkle ARS	97,828	4	—	—
Duluth Guns RC	96,624	3	—	—
Chicago Radio Traffic Assn.	95,798	5	—	W9HPG
Lynchburg ARC	95,508	7	WB4ZPF	N4CD
Miami County ARC	60,544	3	K9SBW	—
Tahoe ARA	53,194	3	WA6SUV	—
Cuyahoga Falls ARC	49,768	3	—	—

Cw

No. 3 Low Power — N2IC — Northern New Jersey
Transceiver: TS-820S

Antennas: System 3 Tribander
40- and 80-meter dipoles

Hour (Z)	No. of QSOs	Multiplier Total	Band changes	Time off (minutes)
21	67	37	10-40	—
22	66	51	40-20-15	—
23	57	55	20-15-40-20	—
00	56	57	40-20	—
01	47	61	20-15-40-80-40	—
02	35	—	80-40	15
03	37	—	80-40	—
04	44	63	80-40	—
05	45	65	40-80	—
06	38	—	40-80	—
07	21	—	80-40-80	21
08	28	—	40-20	21
09	—	—	—	60
10	—	—	—	60
11	—	—	—	60
12	6	—	40	48
13	35	67	40-20	—
14	31	68	20-15-40	—
15	33	70	20-15	18
16	38	71	10-15	—
17	23	—	40-20-10	18
18	30	—	10-15-20	—
19	26	74	20-40-10	15
20	33	—	15-20-10	—
21	33	—	10-15-20-40	—
22	20	—	40-10-15	23
23	23	—	40-80-40-80	—
00	27	—	15-20-80	—
01	17	—	40	21
02	22	—	.80-40-80	7
945 QSOs		74 multipliers	61 band changes	6:28 time off



AD8J and friends went portable from a mountain top in West Virginia on phone to the tune of over 1100 QSOs. For their efforts, they expect to spend a fair amount of time filling out QSLs for those needing the confirmation from West Virginia. Left to right — WB8PHU, AD8J and KB3HQ.

We all owe the United States Senate a vote of thanks for solving the perennial Canal Zone multiplier problem! (K1MC). . . . where would all the big guns be without us little guys? (WA3UNX). Full break-in was an absolute must (WDSHSN). Ever wonder what it would be like to give a party and have no one show up? The 80-meter Novice band was that way (KA1FAS). Well, I finally did it; worked all sections in the SS after 45 years in Amateur Radio . . . this year I did it without too much trouble (W3EYF). My first SS. I'd rather run in the Boston Marathon — at least I'd have a little elbow room. (KA8DRS). My best friend, W4ZM, passed away on Nov. 1 . . . Who can ever forget W4ZM's ck 15? (W4YE). Hecklers were found on 75-meter phone. Sounded like 11 meters out there! (WA1PDG). Count this as another complaint against *keeping logs* during SS . . . I missed most of the contest while hauling firewood on Sunday (KA1FJ). My first SS. Worked 205 QSOs as a Novice (KA1CEI). I just discovered a new game — playing "Blackout Bingo" with your dupe sheet. Obviously some spaces like WD7 or VE9 aren't possible (WA7PK). After working three QSOs in the first two minutes of the contest (my first contest) I thought that it would be pretty easy keeping the rate up and at the above ratio, I would have 2160 Qs in the allotted 24 hours. This was not to be, as I was to learn after the first full hour of operation (KA6DHM). In 1954, as recounted in the face article of the SS report in *QST*, my 704 QSOs on 40 cw was what appears to be the best single-band 40-meter (only) entry ever submitted. Since the contest has been shortened to 24 hours from 40 hours, a direct comparison is no longer possible, but 24/40ths as many QSOs, more than 422 QSOs, on 40-meter cw would effectively top that mark. As a silver anniversary in Amateur Radio for me, 25 years later, I submit to you 624 QSOs in 24 hours on 40 cw for the SS. As the sunspot cycle closes down 10, 15 and 20 meters and forces more folks to 40, I'm going to try to give you more than 704 QSOs on 40 cw in 24 hours (WSWQN). [Good luck — Ed.] My strategy in previous years was to work the last 24 hours of the contest. I changed that this year in order to take advantage of the activity on the higher bands and to allow more off time. As I get older, I find it tougher to go all night — and I'm only 28. What will I do when I'm 40? . . . SS is the biggest event on my Amateur Radio calendar. My friends all look at me as if I were crazy when I tell them about it and my wife leaves for the weekend. I don't make her go — she prefers not to be here! Fortunately, so far, she's always come back. Maybe I am crazy, but I love it (WA8MAM). *Never again!!* (until next year) (K6IGZ).

FEEDBACK

The following corrections and additions prevented us from having a "clean sweep." Please refer to pages 83 to 93 of April 1979 *QST*, for corrections for 1978 SS.

WA0VKF's score was erroneously listed under the Colorado Section rather than in Iowa where it belonged. Jim's 188,100 points, high power, phone not only should have been the highest listed in Iowa, but also the Midwest Division leader.

K7UR, listed number three in Washington on cw, was running "A" Power, not "B" as reported. He therefore should have been indicated as the new low-power all-time division leader in the Northwestern Division.

On phone, WA6FFI should be moved from the SCV Section listings to the Sacramento Valley Section where he belongs.

Washington, phone, W7BUN's score should be adjusted upward to 84,000 points and 75 sections for the

clean sweep.

In the Local Club listings, the Brightleaf ARC aggregate score should have been 82,696 points rather than the 71,796 listed in the SS results. This adjustment raises the Brightleaf ARC one place in the standings.

The club aggregate score listing for the Northwest ARC, Local Club Category, should read 229,718 points, with the phone winner being WD9ADH, not WD9ADM as reported.

K7AWB is the phone certificate winner for the Spokane Radio Amateurs in the Local Club Category.

Add K9HDE to the Illinois phone listings. Joe's line score should read 47,700-318-75-24-A.

From the "this one ain't our fault" department: K6IM mailed his 1978 cw SS-log from Garden Grove, California, on December 8, 1978 and it was not received at HQ until September 26, 1979. K6IM is from the Orange Section with the following lincscore: 61,320-438-70-17-B.

The scores are listed by call area, ARRL section and in order from highest to lowest score. The single operators are listed first; and the multioperator scores are listed at the end of the section listings. The lincscore reads: call score — number of QSOs — number of multipliers — number of hours of operation — power indicator. A power indicates 200 watts or less (dc) used at all times, and B power means that a dc input of greater than 200 watts was used. Example: N6TR 173,752-1174-74-24-B means N6TR had 173,752 points, 1174 valid QSOs, a clean sweep of all 74 possible ARRL sections in 24 hours of operation, and used a dc input of over 200 watts.

CW Scores

U.S.A.

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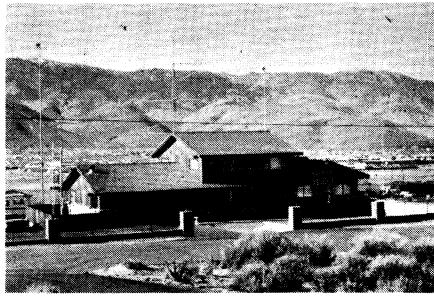
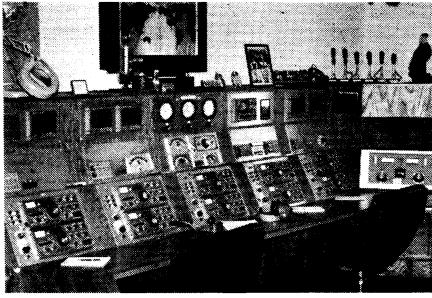
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KB5M	23,072-	206-56-13-A	KA6EZ(X(multiope)	3468-	51-34-15-A	WA7NXL	47,600-	340-70-15-B	W8MSK	25,006-	196-64-11-A	K9RU	109,372-	739-74-23-B			
WD5EAE	20,570-	187-55-19-A	WA6LFF	46,280-	362-65-20-A	WB7PNZ	20,904-	201-52-23-B	W8EGI	24,000-	200-60-7-A	N9P	108,888-	727-74-23-B			
WA5JWU	16,240-	145-56-10-A	K6PE	42,700-	305-70-6-A	K7JVR	18,600-	155-60-6-A	W8YO	21,230-	193-55-16-A	W9TM	104,888-	727-74-23-B			
WD5EAE(+WDEAE)	1206-	28-21-2-A	Orange			KA7FRS	16,632-	154-54-24-A	W8JS	19,706-	167-59-24-A	WB9T1Y	100,886-	691-73-21-A			
Mississippi			WA6JAH	117,504-	816-72-21-B	K8TE/7	8486-	101-42-4-A	W8PV	16,680-	139-60-10-A	AG9A	100,380-	717-70-24-A			
W5VSZ	54,648-	414-66-9-B	W6LEN	115,930-	395-67-18-A	Idaho			KABEHM	16,512-	172-48-24-A	N9AQ	85,544-	578-74-22-A			
WD5KEM	2842-	49-29-8-A	WA6LFF	46,280-	362-65-20-A	W7ID	144,124-	1001-72-23-B	W8WQ	16,320-	160-51-5-A	K9JU	85,264-	584-73-23-B			
New Mexico			K6WS	42,700-	305-70-6-A	K9SD	12,616-	120-62-24-A	W8SYA	15,426-	153-51-6-A	K9GB	76,432-	584-68-23-B			
WA5YTX	120,742-	827-73-20-B	K6HRT	26,784-	248-67-10-A	K9SB/7	57,128-	443-64-22-A	W8GGR	12,696-	138-46-11-A	N9AG	64,600-	475-68-17-A			
W5YZ	111,328-	781-71-24-A	WB6GCF	25,074-	199-63-16-A	K7JV	42,640-	328-65-16-A	WDBBE	12,420-	135-46-10-A	N9AX	57,620-	430-67-19-A			
WD5JYU	62,310-	455-67-24-A	WA6TMY	14,586-	143-51-10-A	WB7TJI	26,520-	204-65-14-B	WB8ZTQ	12,084-	106-57-10-A	WB9JSR	55,074-	411-67-15-A			
WD5IOM	30,916-	524-59-18-A	K6ADE	6240-	78-40-6-A	K7MM(+N7AWE)			K8MVZ	10,080-	90-56-7-A	WA9AXH/9	49,664-	388-64-22-A			
N5MF	27,694-	227-61-8-A	WD6FLV	5900-	118-50-12-A	WB7VID	9,360-	120-39-12-A	N8AOE	9200-	100-46-8-A	AF9C	49,104-	372-66-20-B			
WD5JMA	11,616-	132-44-15-A	WB6AVJ	5016-	66-38-4-A	WB7MM	109,668-	741-74-24-B	WB8P	5976-	83-38-13-A	WB9NEW	48,508-	362-67-23-A			
W5JOV	3200-	50-32-2-A	N6BJW	4362-	64-34-10-A	WB6NHV(+WB6SHL)	26,786-	227-59-17-A	WB8UP	30,320-	40-37-A	WB9BBC	71,200-	584-68-23-B			
Northern Texas			Santa Barbara			W7JYW	121,508-	821-74-24-B	W8LCL	1768-	52-34-3-A	N9AUJ	45,952-	358-68-23-B			
N5CR	182,278-	1043-73-24-B	N6TR	173,752-	1174-74-24-B	K9PP/7	88,652-	599-74-23-A	K8KBM	1200-	21-15-3-B	K9CC	41,520-	346-60-14-B			
N5JB	144,300-	975-74-24-B	WB6KPJ	83,664-	581-72-24-A	K7CPC	85,768-	608-71-24-A	KABEHR	570-	19-15-12-A	K9ARX	34,560-	270-64-9-B			
W5MYA	142,568-	1004-71-24-A	K6IGZ	48,106-	359-67-22-A	N7AMZ	70,858-	499-71-18-A	WB7QXF	38,220-	294-65-19-A	WB9PFG	25,819-	199-65-13-A			
N5AU	106,680-	762-70-15-B	W6OUL	41,610-	285-73-11-A	K7FDQ/7	25,620-	210-61-10-A	WB8QV	1484-	10-7-1-A	W9UN	23,284-	180-66-10-A			
W9PL/5	85,680-	612-70-24-A	WA6JNN	34,224-	276-62-22-A	K7QA(+WB9NFV)	127,374-	897-71-19-B	WB8HDV	10,020-	1-1-A	WB9REC	23,760-	180-66-10-A			
K50JJ(+W5ONL,opr)			K5ME	83,160-	584-70-24-B	K7CA	164,736-	1144-72-24	WB8YD	105,376-	712-74-23	WB9LNO	22,896-	159-73-12-A			
K55OR	61,348-	389-66-14-A	WB6KPF	30,810-	257-67-18-A	K6JQ	12,648-	124-51-7-A	WB8YD(R+WB8CJJ)	21,546-	189-57-15-A	WB9FD	21,546-	189-57-15-A			
W5DGNY	43,940-	338-65-22-A	N6JQ	840-	33-12-5-A	WB7NIN(N6SF,opr)			WB8LZA(+WB8LY)	81,030-	555-73-24-A	W9WR	21,492-	199-54-8-B			
N5BT	39,680-	320-62-15-A	Santa Clara Valley			AJ8C(+A1AU,W8Z,WDBJSQ)			WB8WHS(+WB8WIM)	20,882-	217-61-12-A	WB9SMU	20,882-	217-61-12-A			
KA5FAS	36,666-	291-63-23-A	AD7K	127,312-	872-73-24-A	K7CA(+K8QK,K9AC,K9AS)			WB8LP(+WB8PGQ)	21,772-	758-24-B	WB9PCE	20,796-	216-53-13-A			
WB5TYQ	34,770-	285-61-24-A	WB7VHP	85,692-	579-74-24-A	KLP,opr)			WB8CSA(8+(WB8MPD,W8AFRE)	63,630-	505-63-24-B	K9ACCS	8820-	90-49-11-A			
K5JA(N5AU,opr)			N6GJ(N6G,opr)	153,920-	1040-74-24-B	AJ7S	73,168-	538-68-18-A	WB8ECT(+WB8DCT)	63,630-	505-63-24-B	K9KX/9	7138-	83-43-12-A			
K5FUV	59,494-	233-59-15-A	N6BT(W6VEF,opr)	153,928-	1036-74-24-B	EA7K	60,620-	433-70-20-A	WB8LZA(+WB8LY)	34,650-	275-63-17-A	WB9AGM	5600-	53-38-6-A			
K5MR	25,630-	233-55-5-B	WB6DSV	151,056-	1049-72-24-B	W7NI	161,764-	1093-74-24-B	WB8WYD	231-61-11-A	K9MK	1672-	36-22-A				
WD5IYT	21,344-	232-46-13-A	WB6DSV	151,056-	1049-72-24-B	W7ZR	161,774-	1083-74-24-B	WB8WYD	231-61-11-A	K9MBX	1554-	37-21-8-A				
KA5W	18,354-	161-57-7-A	WB6MSF(WAGK,opr)	129,792-	882-73-24-B	WB7WHO	100,188-	726-69-22-A	WB8WYD	1870-	95-43-18-A	WB9CMB	990-	33-15-4-A			
W5QF	17,670-	155-57-10-A	K6KMF	122,000-	882-73-24-B	AF75	96,624-	671-72-20-B	WB7RKT	18,382-	348-62-16-A	K9HDE	15,844-	143-44-15-B			
K5RKH	12,200-	115-57-10-A	WB6KZT	127,800-	900-71-22-A	WB7WLT	60,680-	410-74-16-A	K7KMB	91,584-	636-72-24-A	K9KNV	11,968-	136-44-16-A			
K52CU/5	10,332-	123-42-2-A	N6MG	126,540-	855-74-24-B	WB7WLT	60,680-	410-74-16-A	K8BWL(+K8AH,opr)	870-	37-23-15-A	K9QBD	520-	6-5-12-A			
K5RQ	5,112-	71-36-4-A	N6TU	122,832-	853-72-20-B	WB7WLT	60,680-	410-74-16-A	WB9YD	105,376-	712-74-23	WB9TNK(UJB)	87,630-	635-69-24-B			
WB5BKL	59,324-	59-33-8-A	N6TA	120,768-	816-74-24-B	WB7WLT	60,680-	410-74-16-A	WB8PK	81,030-	555-73-24-A	W9PK(+A1F9,WDB9JK)	82,740-	591-70-24-A			
WB5TGK(+K5LA,opr)	64,736-	476-68-21-A	K6RPF	120,768-	816-74-24-B	WB7WLT	60,680-	410-74-16-A	WB8PK	81,030-	555-73-24-A	N9F(+WB9s UJB)	82,740-	591-70-24-A			
KA5C(+AA5D,N5AU,opr)	8820-	105-42-19-A	WB6KZT	102,492-	702-73-24-B	WB7WLT	60,680-	410-74-16-A	WB8PK	81,030-	555-73-24-A	WB9EVV(+WB8WFM,K9DT,E)	81,696-	152-74-24-A			
Okahoma			WB5RXZ	99,400-	710-70-21-B	WB6DSV	93,092-	629-74-14-B	WB7WLT	83,080-	620-67-22-B	WB8PK(+WB8ALG,opr)	121,322-	736-74-24-B			
WB5WFB	93,380-	665-70-22-A	N6B	90,400-	627-68-18-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
AESY	56,950-	425-67-20-A	K6PFI	89,392-	604-74-12-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5HFN/5	9576-	152-63-B	WB6KZT	88,912-	594-74-17-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
W9XW/5	9384-	102-46-8-A	WB6KBR	87,912-	594-74-17-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5OSM	6552-	84-39-11-B	WB6GCF	93,092-	629-74-14-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
Southern Texas			WB5RZ	151,072-	937-73-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5RC(KA5CHW,opr)	161,616-	1092-74-24-B	WB6KZT	150,664-	1018-74-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5TM(K5ZD,opr)	161,876-	1087-74-24-B	WB6KZT	150,664-	1018-74-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5AC(K5GK,opr)	155,206-	1093-71-24-B	K6RM	34,816-	263-64-14-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5AC(K5GK,opr)	148,444-	1003-74-24-B	K6SM	34,816-	263-64-14-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
N5BLU	129,648-	888-73-24-B	WB6ERA	27,648-	216-64-10-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5MA	129,648-	888-73-24-B	N6AVP	27,648-	216-64-10-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5NU	111,888-	777-72-17-B	WB6KZT	23,040-	193-65-12-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WA3QVC/5	109,728-	726-72-23-B	WB6KZT	23,040-	193-65-12-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5LZLO	107,740-	740-73-18-B	N6NDO	130,176-	904-72-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5AST	23,312-	188-62-12-A	WB6DPL	111,488-	832-67-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5WFB	61,250-	540-55-16-A	AA6EE	42,228-	306-69-14-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
KD50	12,936-	132-49-6-B	N6KW	31,552-	232-68-9-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB8DKJ/5	11,440-	104-55-19-A	K6CRRN	35,880-	260-69-6-A	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5GMB	10,028-	109-46-12-A	WB6BIP(+WA6DJ)	103,748-	701-74-20-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
K5LWL(K5RC,opr)	1334-	29-23-6-A	San Francisco			WB6ION	132,812-	922-72-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A
6			WB6ION	132,812-	922-72-24-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
WB5WFB	7727-	101-36-10-A	WB6KZT	129,056-	872-72-23-B	WB7WLT	83,080-	620-67-22-B	WB8PK	126,576-	879-72-24-B	WB9WYD	82,740-	591-70-24-A			
N5DB	6308-	83-38-4-A	WB6W														

KA0AIA	6142-	83-37-14-A	WB0TOM	4000-	100-40- 7-A	K0LTC(K0GRA,KA0DJJ,N0BCH, N0UBT,WB0s HRX SNH SNP,WD0s BQP BQR FVH,ops)	WA0QWW(WB5VM_MZ_WB0SPT,opr)	Quebec	
AB0G	2484-	46-27- 2-A	K0SBV	2700-	50-27- 2-B	WB0BRX	532- 19-14- 6-A	VE2HY	
WD0EGE(+WB5VM_MZ_WB0SPT,opr)	85-698-	621-59-23-B	KWA0(-WB0s)	144,-394-	989-73-24-B	KWA0(-WB0s)	144,-394-	989-73-24-B	VE2WA
KA0CPM(+KA0DGT DGU (DGV))	5928-	76-39-18-A	KA0BMX(+WB0ZEP)	14,-200-	142-50-18-B	KA0BMX(+WB0ZEP)	14,-200-	142-50-18-B	VE2AQP
Iowa									K0D1(+K0NB)
WA0YKF	134,900-	950-71-24-B							117,852- 854-67-24-B
K0UJ	130,514-	803-73-23-A	Minnesota						Ontario
WB0PYD	102,514-	503-73-23-A	W0ZZ	158,192-1069-74-24-B	K0DEQ	120,472- 814-74-22-B	North Dakota	VE3OT	100,536- 708-71-22-B
K0IS	101,616-	696-73-24-A	W0SA	143,920-1021-70-24-B	AB0I(K0X_R,opr)	108,368- 822-72-24-A	VE3JTP	75,740- 541-70-22-A	
WD0FGY	80,040-	580-69-24-A	N0NO	131,254- 899-73-24-A	K0VUW(K0P_U,opr)	118,360- 830-71-24-B	VE3GCE	75,024- 521-72-16-A	
WB0VDE	46,992-	356-66-17-A	WB0UC	114,016- 806-73-24-A	WB0VDE	117,718- 829-71-24-B	VE3XJ	50,516- 346-73-19-A	
N0BB	44,968-	308-73-18-A	WB0CR	104,720- 787-70-24-A	N0DX	117,086- 830-71-24-B	VE3DOP	43,648- 352-62-17-B	
AI0M	34,684-	299-58-14-A	K0MPH	110,180- 787-70-24-A	N0TT	107,068- 754-71-24-A	VE3CWP	30,384- 242-60-14-A	
WB0UCP	27,840-	240-58- 3-A	WB0WD	108,204- 762-71-23-A	K0RWL	105,790- 745-71-24-B	VE3KLW	10,952- 74-74-10-A	
W0JTC	22,736-	203-56-14-B	W0HW	104,488- 706-74-18-B	WB0QWS	95,922- 657-73-20-A	VE3LJU	10,700- 107-50-15-A	
W0LRC	22,680-	360-63-10-A	K0FZG	97,016- 724-67-20-A	WB0LFY	90,114- 655-73-20-B	WA0QWW(WB0s)	100,536- 708-71-22-B	
WA0TVV	20,130-	153-55- 9-B	WB0GE	79,076- 706-73-24-A	WB0SS	85,324- 654-73-24-B	VE3KQD	4200- 60-35-24-A	
WD0GVY	20,036-	189-53-20-A	AA0AD/0	61,584- 512-66-18-A	WB0RNG	79,824- 938-74-19-A	VE3JTQ	3960- 66-30- 4-A	
WB0WU	10,812-	102-53-12-A	K0AC	43,112- 317-68-15-A	WB0VE	78,402- 537-73-23-A	VE3DRT/3(VE3s)	10,210- 759-71-21-A	
N0ADI	9,690-	85-58-22-A	WB0RSB	40,800- 300-68-13-A	WA0FBQ	74,392- 547-68-17-A	VE3BXI(+VE3s)	HGE KMF	
N0AYM	7800-	100-39- 7-A	K0BR	40,430- 311-65-11-A	WB0VHR	35,376- 264-67-13-A	JG1LEB)	52,428- 392-67-24-A	
Kansas			K0ASU	37,520- 280-67-21-A	WB0WMC	29,036- 238-61-12-A	Manitoba		
			WB0UKI	34,320- 200-67-14-A	WB0QD	15,200- 158-50- 7-A	VE4VV	155,198-1063-73-22-A	
WA0TKJ	118,844-	803-74-24-A	N0AGW	31,320- 210-46-18-A	WB0DARX	117,486- 117-49-18-A	Saskatchewan		
K0VBU	109,500-	750-73-24-A	N0BAP	14,190- 165-43- 8-A	WB0CHZ	6384- 84-38-20-A	VE5ACS(WB0s)	10,246- 109-47-19-A	
WD0FBP	70,380-	510-69-23-A	WA0QWW	6804- 81-42-13-A	WB0BV	6148- 106-29- 5-A	VE5BBQ(+VE5ZU)	16,932- 166-51- 7-A	
WB0VKC(WB5WQ,opr)			WA2HF/0	6150- 123-50-13-A	WB0BBN	4736- 74-32-10-B	Alberta		
WB0DOX	36,934-	313-59-22-B	K0ADJ	4690- 67-35- 1-A	WB0TPK	2566- 43-31-12-A	British Columbia		
K0PSW	21,460-	885-58-14-B	WB0MN	3600- 62-30- 4-A	WB0TOS	24,004- 50-19- 6-A	VE6CGY	1440- 30-24- 4-A	
N0IN	13,818-	141-49- 2-B	K0JIL	2352- 49-24- 1-A	WB0OIV	1900- 50-19- 6-A	VE1DXA(VE1BX,opr)		
KA0BUT	11,000-	110-50-11-A	K0TK(+K0FV,N0BG,WB0GDB)	133,-904-74-24-B	WB0EPE(N0s ARN AX,WB0s LTD)	135,124- 913-74-24-B	VE1BBD	167,240-1110-74-24-B	
K5JZN/0	9000-	100-45- 2-A	WB0TQ(+N0BG,WB0RBW)	115,-360-824-70-24-B	WB0TPP(+AG0C,WB0UFJ)	56,810- 437-65-23-B	VE1WF	42,140- 301-70-14-B	
KA0CRT	5070-	65-39-12-A	N0ARB	4484- 59-38-4-A	VO1AW	39,520- 304-65-17-B	VE1CGN	51,750- 375-69-20-A	



The source of the BIG signal from the West Coast — WA7NIN. Above, N6SF, who piloted 'NIN to the number-three slot on cw, checks out the logging accommodations (unfortunately not used during his single-operator stint). The inside and outside station shots don't begin to do justice to a station that truly deserves the title "Contester's Heaven." Station owner Pat, WA7NIN, did the honors in the phone portion of SS and walked away with second-place overall.

Phone Scores

WA1UJU	14,000-	140-50- 7-A	2		WA2DTJ	24,192- 189-64-14-B	N2CU	12,672- 198-32- 3-A
WB1VNT	5472-	72-38- 3-B			W2GNW	23,552- 184-64-12-A	N2ARD	12,190- 115-53-10-A
K1VNT	4940-	65-38- 3-B			WB0PKL	23,252- 184-53-12-A	WB0VZO	11,900- 100-45- 1-A
W1PLJ	4650-	75-31- 6-A			WB0PKL	19,664- 172-66- 1-A	W2UP	9000- 100-45- 1-A
K1RIB	4560-	60-38- 6-A			AD2K	16,640- 130-64-15-A	N2ARG	8568- 84-51- 5-A
WB1BDF	4392-	61-36- 4-A			WB0U2D	16,200- 150-54- 5-A	W2GJ	6068- 82-37- 5-A
K1CHY	3540-	59-30- 4-A			K2CPL	15,200- 148-54- 5-A	WA2IMG	5000- 50-50- 6-A
WA1PHY(K1ED,opr)	14,170-	35-21- 2-A			WB0VME	15,000- 148-54- 5-A	WB2PSI(W2AY,WA25 VZN ZKD)	
W1TKZ(K1s TK UR,WB0s YOJ,ZLQ,opr)	85,248-	576-74-22-B			WB0VME	12,400- 128-60-20-A	WB2EW(WA2WEFF)	
K1PDX(+WB1FC0)	45,678-	331-69-16-A			WB0VME	12,400- 128-60-20-A	AG2N(+KB2EW,WA2WEFF)	
Connecticut					WB0VME	91,980- 630-73-24-A	WB2WEW(+KA2CQO)	61,548- 446-69-14-B
K1VTM	244,496-1652-74-24-B				WB0VME	9020- 82-55- 8-B		9020- 821-74-24-B
K1PR	237,688-1616-74-24-B							
W1AZD(0)	14,028-1213-72-18-B							
K1RT	145,416-	896-73-15-B	WA1PDG	73,584- 511-72-18-A	WB2ZTM	91,008- 632-72-24-A	3	
KA1GD	142,820-	965-74-22-B	WA1YOC	60,520- 445-68-15-B	WB2ZLW	124,000- 879-71-20-B		
W1WEF	138,824-	938-74-20-B	KA1CVM	20,600- 128-58-16-A	WB2ZLW	124,000- 879-71-20-B		
K1XM	110,376-	756-73-17-B	WB0Z	10,800- 124-61-2-B	WB2ZLW	124,000- 879-71-20-B		
WA1ZDW	109,816-	742-74-19-A	WB0Z	7000- 100-35- 3-A	WB2ZLW	124,000- 879-71-20-B		
K1J	109,556-	667-74-16-A	N1SD(+K1IZX)	146,584-1044-73-24-B	WB2ZLW	124,000- 879-71-20-B		
WB1ACZ	150,500-	352-72-18-B	K0AEF	66,220- 473-70-17-A	WB2ZLW	124,000- 879-71-20-B		
N1JW	98,716-	667-74-14-B	KM6FC/1(+KM6FD)	64,042- 451-71-11-B	WB2ZLW	124,000- 879-71-20-B		
K1WB	88,900-	635-70-20-A	WA1ZBH(WB1DED et al,opr)	51,262- 361-71-24-A	WB2ZLW	124,000- 879-71-20-B		
K1THP	78,292-	529-74-13-B	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
W1VV	65,712-	244-74- 8-B	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
K1KI	63,504-	441-72- 6-B	WB1ZM(+K1ZM,opr)	55,935- 36-84- 2-B	WB2ZLW	124,000- 879-71-20-B		
WA1YEC	50,694-	357-71-24-A	K1RJ	198,912-1344-74-24-B	WB2ZLW	124,000- 879-71-20-B		
N1ADE	50,688-	352-72-18-B	WB1Q	159,888-1081-74-14-B	WB2ZLW	124,000- 879-71-20-B		
K1TN	48,034-	329-73- 5-B	WB1Q	140,482- 949-74-24-B	WB2ZLW	124,000- 879-71-20-B		
K1WA	45,140-	345-54- 7-B	WB1Q	140,482- 949-74-24-B	WB2ZLW	124,000- 879-71-20-B		
WB1YI	35,070-	277-70-14-B	WB1YI	33,634- 251-67-14-A	WB2ZLW	124,000- 879-71-20-B		
K1BV	37,260-	345-54- 7-B	WB1YI	33,634- 251-67-14-A	WB2ZLW	124,000- 879-71-20-B		
K1DD	33,184-	227-61-12-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
N1CC	27,450-	225-61- 7-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
W1EICH	23,370-	205-57-24-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
K1DII	22,458-	197-57-24-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
W1V	19,800-	165-58-14-B	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WB1BIH	15,180-	138-55- 4-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WB1FKU	15,180-	138-55- 4-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WA1YCO	4402-	71-31- 1-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WA1UU	4402-	71-31- 1-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
K1YRP	4012-	59-34- 2-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WA1STO	3996-	53-32- 6-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
WB1UU	37,100-	53-32- 6-A	WB1V	16,180- 147-57-11-B	WB2ZLW	124,000- 879-71-20-B		
W1LJL(+K1s NFE, WB1BL, OD, WB1PAT)	204,092-1379-74-24-B							
K1XA(+K1WJ,W1OD)	157,472-1064-74-21-B							
K1MUJ(WA1s DWF GA HYN SMN, WB1PAT)	144,432-1003-72-23-B							
WB1ADR(+KA0AR, DBK, WB1PAT)	100,110- 705-71-24-A							
KA1BB(+N1AM, SMR)	17,914- 169-53-12-A							
Eastern Massachusetts								
WICF(WA1LKX,opr)	227,180-1535-74-24-B							
AB1A	210,900-1425-74-24-B							
WA1UZH	145,632-	984-74-24-B	K1IK	184,354-1245-74-24-B	K2AEV(+KA2GWJ,WA2YEV)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
NIAU	137,270-	928-74-24-B	WB1HCT	64,186- 479-67-15-B	WB2RR(WA2AOG,opr)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
K1GSK	112,030-	737-74-14-B	WB1LJL	24,800- 200-62- 6-A	K2AEV(+KA2GWJ,WA2YEV)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
K1IAQ	101,400-	737-74-14-B	WB1ZLW	60,354- 479-67-13-B	WB2RR(WA2AOG,opr)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
N1RC	90,288-	521-74-17-A	WB1LJL	56,186- 479-67-13-B	K2AEV(+KA2GWJ,WA2YEV)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
N1HR	76,812-	519-74-14-A	N1YY	157,028-1061-74-24-A	WB2RR(WA2AOG,opr)	206,756-1397-74-24-B	WA3YTT	26,040- 210-66- 8-B
W1FM	72,144-							

W6DPD	37,520- 268-70-11-B	[KL7D]	142,376- 962-74-19-B	K6HLL	1080- 30-18- 2-A	N9AW	131,572- 889-74-23-B	K0TK(+k0FVF,WB0GDB)
WB6KHR	21,504- 168-64-14-A	[KL7IVX]	142,376- 962-74-22-A	W9AEI	374- 17-11- 2-B	N9CKS	114,132- 562-73-18-B	124,528- 853-73-24-B
K6TG	15,048- 132-57-10-A	[KL7FY]	53,130- 385-69-10-B	K8UFW	330- 15-11- 2-B	N9GHJ	82,782- 562-73-18-B	K9LTC(WB0MHH,K0GR,A,W9UBT,
WA6YAB	7600- 100-38- 7-A	[KL7CQ]	40,698- 323-63-13-B	W8XT	128- 8- 1-A	N9AU	79,132- 542-73-16-B	WB0s,FBN,GPR,HRX,SNG,SNH
Sacramento Valley		[KL7YN]	8184- 93-44- 7-A	WB8JB(M(N8CQ,WB8s	DQP,JMP, LSN YQJ,opr)	K9EYA	78,110- 535-73-16-A	SNP,WD0FVH,opr)
A6ADX	229,444-1552-74-24-B	8		K9NDI(+AD8I)	200,096-1352-74-24-B	K9KTR	73,112- 494-74-18-B	124,172- 839-74-24-B
K6RLY	176,416-1192-74-22-B			WB8VLR(+)	196,544-1328-74-24-B	WB9VQZ	69,815- 449-74-24-A	WB0YUC(+WD0FOF)
K6SG	114,996- 777-74-21-B			WD8OYO(+N8AUH,WD5PMW)	63,364- 434-73-21-A	K9EE	97,344- 676-72-21-B	WA0VQR(+WB0s,IHR,VPR)
WB6RDA	80,068- 541-74-15-A				65,386- 455-72-21-B	W9NA	58,320- 405-72- 8-B	286- 13-11- 1-A
WA6FYP	37,488- 284-66-20-A			W8FW(N8s	BCM BCX,WDBAMV, oprs)	N9NE	51,100- 340-73-11-B	Missouri
N6JM	18,910- 155-61- 6-B	K8LX(WA8ZDT,opr)	212,528-1436-74-24-B	W8IPD(AG8N,WB8s	55,428- 408-68-19-B	WB9BSO	45,936- 319-72-15-A	WB0TCQ
WA6BRV	13,200- 124-62- 6-B	WB9DZS/8	168,726-1119-74-24-B	WD8OTW(+N8AUH,WD5PMW)	56,360- 383-60- 9-B	WB9VQZ	44,300- 350-67-10-A	178,784-1208-74-24-B
WB6U	10,952- 474-74-16-B	K8MJZ	168,726-1119-74-24-B	K9AY(+WB8MHJ)	35,712- 248-72-15-A	WB9BZ	35,510- 265-67-14-B	K9VUV(K0U,opr)
K6JM	6424- 78-54- 8-A	A18D	164,018-1123-73-23	WD8BGL(+K8B8T,K8ADR,WB8s	33,265- 252-66-12-A	K9RWL	150,888-1028-73-23-B	156,584-1058-74-24-B
WA6SIM	16- 4- 4- 7-A	WB6ULV	12- 4- 3- 2-A	KB8VNT	32,944- 232-71-17-A	K9RS	150,888-1028-73-23-B	WB8s,FBN,GPR,HRX,SNG,SNH
WA6SVU	12- 4- 3- 2-A	AC8Y	126,864- 881-72-23-B	WB8JAW(+WD8JAM)	38,688- 368-68-2-A	K9DEQ	117,360- 815-73-12-B	FT,KB6NF,WB6AS,SM,UV,
WB6W	23,000- 6- 3- 2-A	K8MNL	126,864- 881-72-23-B	WB9DZ	38,610- 368-68-2-A	AG9Q	86,580- 585-74-15-B	WB6s,VLK,VVM,WBN,YOG
PT,KB6NF,WB6AS,SM,UV,		K8DQ	126,864- 881-72-23-B	WB9AZK	27,060- 205-66-12-B	WB9LFY	84,360- 570-74-24-A	WD6s,GHG,GHI,AD7M,AF71,
WB6s,VLK,VVM,WBN,YOG		K8JVN	10,972- 689-74-20-B	WB9EJE	26,250- 205-66-10-A	WB0MTU	80,208- 557-72-19-A	W7KJU,opr)
WD6s,GHG,GHI,AD7M,AF71,		WA8OWG	10,972- 689-74-20-B	WB9ECM	25,870- 199-65- 3-B	K4DDGC	78,284- 531-74-20-B	53,176- 391-68-24-A
W7KJU,opr)		WD8MQG	101,324- 694-73-24-A	WB9ED	23,392- 172-68-15-A	WB8VHN	70,848- 492-72-23-A	WB0TCQ
53,176- 391-68-24-A		K85IA	95,338- 633-73-19-B	WB9EF	22,916- 194-66- 6-A	WB0VHN	70,848- 492-72-23-A	K9VUV(K0U,opr)
W6NJU(+KA6HWH)	32,154- 233-69-14-A	K8OT	98,984- 608-74-23-B	K9BFJ	65,382- 453-73-16-A	WB9EF	58,646- 413-71- 9-B	WB0TCQ
Pacific		WB8AQ	89,886- 633-71-15-A	WB8UT	16,530- 145-57- 5-A	WB0VHN	58,646- 413-71- 9-B	K9VUV(K0U,opr)
K7SS/KH6	285,048-1917-74-24-B	WB8BN	91,548- 551-74-18-B	WB8WEZ	6006- 79-39- 9-A	N9HR	20,160- 160-63- 8-A	WB0TCQ
WH6ACQ	10,848- 113-48-12-B	K8SS	74,888- 506-74-11-B	WB8DGE	1680- 35-24- 6-A	WB9GZP	19,680- 164-60-10-B	15,584-1058-74-24-B
7		K8GSR	71,928- 486-74-21-B	AD8J(+KB3HQ,WB8PHU)	162,144-1126-22-24-B	WB9JY	18,824- 181-52- 8-A	WB0TCQ
WA8AW	60,776- 428-71- 9-B	WB8AP	60,236- 407-74-19-B	WB9IKO	18,600- 150-62-10-A	WB0BBK	27,324- 207-66-11-B	WB0MTU
K9P	58,832- 403-72-19-A	WB8BZ	58,832- 403-72-19-A	WB9JL	19,304- 150-61- 1-A	WB0MTU	24,400- 188-65- 9-B	WB0VHN
K9PB	58,832- 403-72-19-A	K8YRQ	54,432- 378-72-24-A	WB9PA	15,496- 149-52-13-A	WB0VHN	22,620- 174-65-17-A	WB0VHN
N8LA	53,392- 381-71-21-A	WB8CD	53,392- 381-71-21-A	WB9EF	15,496- 149-52-13-A	WB0VHN	22,620- 174-65-17-A	WB0VHN
WB8AMJY	50,954- 349-73-16-A	WB8JY	50,954- 349-73-16-A	WB9GJY	15,496- 149-52-13-A	WB0VHN	22,620- 174-65-17-A	WB0VHN
WB8CQ	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9H	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8D	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9VSO	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8E	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9VW	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8F	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9W	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8G	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9X	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8H	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9Y	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8I	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9Z	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8J	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AA	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8K	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AB	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8L	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AC	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8M	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AD	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8N	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AE	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8O	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AF	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8P	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AG	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8Q	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AH	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8R	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AI	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8S	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AJ	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8T	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AK	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8U	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AL	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8V	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AM	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8W	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AN	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8X	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AO	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8Y	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AP	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8Z	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AQ	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8A	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AR	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8B	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AS	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8C	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AT	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8D	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AU	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8E	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AV	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8F	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AW	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8G	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AX	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8H	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AY	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8I	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9AZ	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8J	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9BA	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8K	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9CA	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8L	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9CB	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8M	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9CD	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8N	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9CE	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8O	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9CF	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8P	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9DG	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8Q	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9EG	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8R	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9FH	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8S	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9GH	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8T	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9IJ	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8U	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9K	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8V	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9L	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8W	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9M	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8X	50,272- 363-72-19-A	WB8JZ	50,272- 363-72-19-A	WB9N	12,960- 120-54- 6-A	WB0ATB	9256- 89-52- 4-B	WB0VHN
WB8Y	50,272- 363-72-19-A	WB8JZ	50,272- 363					