

Results, 43rd ARRL November Sweepstakes

Happiness is being part of an all-time record-breaking event.

By Jim Cain,* WA1STN

We did something right. Despite dire predictions that the 1976 November Sweepstakes contest would be a bust, the 1976 SS was an unqualified success. From every viewpoint, the operating activity which has been touted over the years as the "opening of the contest season" reached new heights last November. The only benchmark which was not raised was the number of complaints from noncontesters, which were almost nonexistent.

For starters, give this some thought. In 1976, every single high-power all-time division record was broken on phone. Every one. We thought about just running the 1976 phone-division-leaders listing and giving it two labels: 1976 and all-time! On cw, a few previous division records remained untouched, but not unchallenged; those remaining to be shattered are Central Division, Midwest, Northwest, Roanoke (c'mon, you guys; W4KFC's record is 11 years old), and Southwest. If this keeps up we will need an electronic scoreboard with instant updating.

Total number of entries in the 1975 Sweepstakes was 2399, down just slightly from 1974, which was the all-time record. In 1976 Headquarters was inundated by 2805 entries, fully 22 percent more than the previous year, and a new record. That's just a handful less than the record for the highest number of entries in any single contest, set in the DX Competition during the last sunspot maximum. If you're thinking

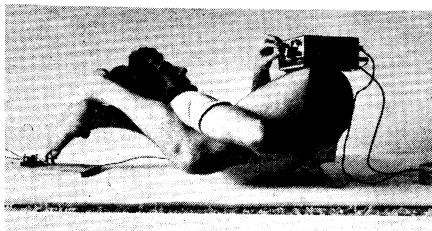
that the Contest Branch had 22 percent more work to do this year than last, you're wrong. Thirty-five percent would be more like it, because the average

number of contacts per entry was up by at least 10 percent.

The additional entries seemed to come primarily from those "little guys" we discussed on these pages a year ago, at least some of them as a result of the 200-QSO award offered this year. The Bicentennial Worked All States award probably didn't hinder activity, either. A few of the Canadian sections were moderately scarce (not to mention the U.S. Canal Zone) but all the 50 states were easily found on both modes.

Highlights, Big Gun Category. Everyone knew beforehand that the phone weekend would probably be a battle of two stations: WA0CVS and KV4FZ. WA0CVS received his new call sign hours before the start of the SS and operator WB0DJY had to re-do his CQ tapes with the new call, W0TR. It was only fair, though, that he have a two-letter call sign to compete against the possible advantage gained by his competition's semi-exotic KV4 call sign. K7VPF rolled into the KV4FZ radio station and proceeded to operate while contending with several unknown quantities like band openings and "where's the john?" When it was all over and the dust had cleared there was still some doubt about the outcome, since both contenders had to dupe and re-dupe their logs. The final QSO spread was 21, less than one contact per hour!

Amazingly, two East Coast phone operators managed to break into the Top Ten this year with a couple more lurking very near — WB2OEU with big antennas and WA1LNQ with little ones.



Santa Barbara man WB6JXB finds left-footed sending a most relaxing November SS mode of operation.



WB4KTR (r) found his SS operation somewhat limited; he took time out to make some music with famous Bluesman Muddy Waters.

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Little by big-gun standards, of course, yet it's not only size, but operating technique that counts. All in all, it was four stations south of the Mason-Dixon line, six north, and four stations west of the Rockies and six east. Eight of the 10, however, are at the right distance to work the East Coast on 20 and 15 meters and that's still what counts. Overall, in 22 sections it took over 200k points to win, and only 11 section winners made less than 100k on phone!

WA5LES, last year's cw record-setter, beat his own record but that wasn't quite enough, as Chip at KV4FZ beat it by even more. Add KP4EAJ who operated from KP4AST and W6OAT who keyed WA7NIN and we have a total of three operators who bettered the former record and one who came close. Yes, indeed, there were more "little guys" to work and they did send faster this year. Bravo! Fifty-three of the sections required over 100k for victory on cw, and 18 took over 150k!

Last year there were no clean sweeps (all 75 section multipliers worked) on cw, while in 1976 we had 17. VE8 was still the killer and there seems to be no solution to that problem. If you discount the four multi-operator cw stations who swept and the three operators who were "out" for a clean sweep (score not so important) that leaves a lot of serious SS contestants who just plain didn't make the grade, although not for lack of trying.

One hundred and nine clean sweeps on phone is more like it, all right. This writer attempted a minimum-time sweep on phone and finished it by calling a VE1 out of the 75-meter band on cw and luring him up to 3780. That came after coming dangerously close to having to run a phone patch to Balboa in the Canal Zone. Oh well.

What about the low-power competition, you say? The all-time listing elsewhere in this report reveals that many division records remain to be broken, although 11 out of 32 were laid to rest in 1976. It would be interesting if some of the well-hardwired stations would shut down their amplifiers for a year and go after some of those 200-watt records. Anyhow, AC8CQN lead the cw QRPers (and, by the way, three of the top four in Michigan were category "A" stations), while Coloradoan WB0MIV turned in the top amplifier-less phone score. That computes, since the overall top phone score also originated in John Denver's Rocky Mountain high country.

And now for something completely different for most casual participants and probably different for most big guns. It's called "disqualifications and how to avoid them." Unfortunately, entrants eliminated from the competition this year include several operators from the Top Ten on both phone and

Division Leaders - Phone

HIGH POWER	LOW POWER	DIVISION	MULTI-OP
W3KWB	WA3TBW/3	Atlantic	K3CR
WA9BWY	WB9KMQ	Central	WB9GCS
WA0ONL	WA0URW	Dakota	WB0DSJ
W5WMU	W1FCC/4	Delta	WA4EJX
WA8PLZ	W8TR	Great Lakes	WB8JBM/8
WB2OEU	WA2LBTT	Hudson	WB2MZU
K0GXR	WB0ISW	Midwest	W0QQQ
WA1LNQ	WB2JSJ/1	New England	K1VTM/1
WA7WXY	W7TYN	Northwestern	W7FO
WA7NIN	WA6WRS	Pacific	W6YX
K4YF	W4WSF	Roanoke	W4BVV
W0TR	WB0MIV	Rocky Mtn.	WA0UWF
KV4FZ	AA4BTQ	Southeastern	W4AQL
W6HX	WA7VTM	Southwestern	W6CCP
K5LWL	AB5AAR/5	West Gulf	AA5RXT
VE6DX	VE6ATT	Canadian	VE3DOP

Division Leaders - CW

HIGH POWER	LOW POWER	DIVISION	MULTI-OP
W3LPL	WA3SWF	Atlantic	K3GJD
WA9BWY	AB9CGL	Central	K9RMA
WA0ONL	WA0UCU	Dakota	
W5WMU	WA5VDH	Delta	W4EAL
K4GSU	AC8CQN	Great Lakes	WB8JBM/8
WA2UOO	AB2SJG	Hudson	W2SZ
K0GXR	WA0PAO	Midwest	W0ZLN
W1FBY	W1DGL/1	New England	W1MX
W7TML	W7YTN	Northwestern	K3MNT/7
WA7NIN	AA6MQS	Pacific	W6YX
K4VX	W4WSF	Roanoke	W4UPJ
WB0DJY	W0ETT	Rocky Mtn.	WB0OYX
KV4FZ	K4VFY	Southeastern	W4AQL
K6NA	WB7AEB	Southwestern	WB6JJE
WA5LES	WB5AOF	West Gulf	AA5RXT
VE7CC	VE1MX	Canadian	VE3ART

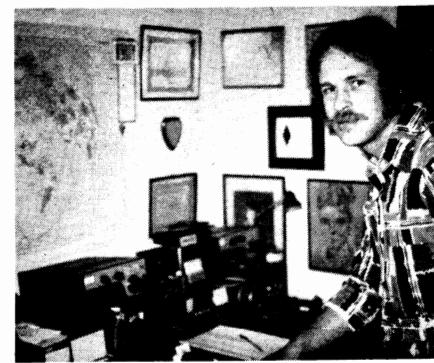
Top Ten - Low Power

CW			
CALL	SCORE	CALL	SCORE
AC8CQN	131,254	WB0MIV	176,100
WA5VDH	129,940	WB0IW	139,160
W1FCC/4	125,504	W4WSF	128,400
WB5AOF	116,928	AB5AAR/5	128,084
WA3SWF	115,632	WA3TBW/3	124,960
W5AC	115,632	W8TR	117,718
W0ETT	112,896	WA7VTM	116,340
W5SBX	111,444	WB5AOF	114,402
K4VFY	108,914	WA6ELX	113,040
WB0PAO	108,478	WB2JSJ/1	108,288

cw. Careful scrutiny of the claimed scores in February's *QST* compared to the final scores in this issue will indicate that every Top Ten entry was adjusted in score. When one is adjusted downward greater than two percent, the entry becomes eligible for possible action; in practice, the figure used is three-percent score reduction. Entries so adjusted are reviewed by the Headquarters Awards Committee and are weighed against the disqualification criteria specified several years ago by the volunteer Contest Advisory Committee (and printed each year in January *QST*).

So much for the standard speech . . . now for the nitty-gritty. All those disqualified from the top scorers were primarily for "rubber-clocking" (with a few dupes thrown in). If you don't know what rubber-clocking is, it's just as well. If you do, then you also know that with 2,800 logs to cross-check it is not very difficult to spot such time bending.

Backtracking. Last year in the SS report we exhorted entrants to use our forms instead of homemade ones, and to write so we could read what you wrote. This year about 15 percent of the entries used homemade forms, which doesn't seem like much until you



Ninth-Area Contest Advisory Committee member Vic, K9UIY, and his famous QRP station.

multiply 2805 times point one five. Be sure to read the rules for the upcoming November Sweepstakes, and for all upcoming contests, for that matter. You may be surprised at what you read about requirements for submitting entries in ARRL contests. We're sorry it has to be that way, but with all of our contests experiencing increased activity, with more awards offered all the time, and with the potentially gigantic Radio-sport Championship to deal with in July, we simply have to do what we can to streamline our operation. Please ask for and use ARRL contest forms, and we'll reward you with faster service, more timely *QST* reports, and less errors in those reports.

Last but definitely not least, some words about the Affiliated Club Competition aspect of the SS. Number of clubs with valid entries this year: 90, up from 76 in 1975. While some medium-sized clubs were swallowed up by contest conglomerates, many made rather hefty advances in their total point productions over the '75 SS. The Northern California Contest Club wins overall for the second year in a row, their margin of victory over second-place Potomac Valley Radio Club a half-million points this time, versus just 350k in 1975. Both groups produced over a million more points than they did in 1975, NCCC with 136 valid entries and PVRC managing 154.

New to the Top Ten clubs listing in 1976 are the New England Contest Club, the Southern California Contest Club, the Texas Associated Contest Operators, and the Colorado Contest Conspiracy. The first three are new groups, while CCC has been around a few years. Biggest jump upward in the listings is the Central Michigan Amateur Radio Club, from a quarter-million points in 1975 to over a million (and

Affiliated-Club Competition

CLUB	SCORE	ENTRIES	CW WINNER	PHONE WINNER
Northern California Contest Club	10,884,632	136	WA7NIN	WA7NIN
Potomac Valley Radio Club	10,343,214	154	W3LPL	K4YF
Murphy's Marauders	6,520,254	62	W1FBY	WB2OEU
Mad River Radio Club(OH)	3,776,318	42	WA3WIK	WA3WIK
Wireless Institute of NE	3,387,260	49	WA2UOO	WB2RKK
New England Contest Club	2,936,782	45	W1DAL	W1CF
Western Washington DX Club	2,871,650	46	K7RSC	W7RM
Southern California Contest Club	2,863,224	40	W6RTT	WB6YBL
Texas Assoc. Contest Operators	2,350,766	25	AA5LES	WB5OOE
Colorado Contest Conspiracy	2,029,258	17	WB0DJY	W0TR
South Jersey Radio Association	1,356,216	49	K2JOC	WA2VYA
Central Michigan ARC	1,093,428	63	AC8SH	WA8LTX
Texas DX Society	995,022	11	W5SBX	K5LWL
Radio Amateur Technical Society(IL)	849,874	11	WB9LK	K9HDE
Buffalo Area DX Club	757,194	13	WA2LCC	WA2LCC
Canton Amateur Radio Club(OH)	697,612	20	W8SWB	W8SWB
L'Anse Creuse ARC(MI)	679,674	32	W8GLC	K8BZK
Frankford Radio Club	632,496	8	W2LYL	K3DPQ
Schaumburg Amateur Radio Club(IL)	605,834	10	WA9PBK	WA9PBK
Radio Club of Tacoma	586,908	10	W7BUN	W7BUN
Southern California DX Club	562,544	10	W7CB/6	K6AC
Saginaw Valley Amateur Radio Assoc.(MI)	549,778	27	W8QHM	WB8IOT
Indy DXers	482,710	5		WA9BWY
Kankakee Area Radio Society(IL)	470,462	9	AC9NLR	WB9HAD
Prairie Dog Amateur Radio Club(SD)	421,926	3		
Orlando Amateur Radio Club	401,772	3		
Motor City Radio Club(MI)	399,014	13	W8BNF	WA8FRE
South Peninsula Amateur Radio Klub(CA)	377,120	14	W6ICJ	W6KH
Ohio Valley Amateur Radio Assoc.	369,458	7	W8RSW	
North Florida Amateur Radio Society	356,108	4		WA4UFW
Wisconsin Valley Radio Association	344,920	8	W9NA	W9NA
Michigan DX Association	342,348	4		
Twin City DX Association(MN)	342,302	5	WB0ANT	
Georgia Tech Amateur Radio Club	322,450	4		
Ozaukee Radio Club(WI)	320,986	5	W9LO	
Gloucester County ARC(NJ)	302,822	10	WB2OSQ	AB2BVV
Winona Radio Club(MN)	294,998	8	WA0URW	WA0URW
Northern Illinois DX Association	271,970	3		
Bluegrass Amateur Radio Club(KY)	266,660	5	AB4FOT	
Alamance Amateur Radio Club(NC)	266,436	10		WA4FFW
Central Virginia Contest Club	266,070	6	K4JM	W4QCW
Pennsylvania Wireless Association	250,728	6	WA3NAF	
Northwest Amateur Radio Club(IL)	248,016	7	W9ZAV	AB9DED
Massillon Amateur Radio Club(OH)	247,698	5	W8LSO	
Overlook Mountain ARC(NY)	239,310	11	W2FPG	AB2BXL
Northrop Radio Club(CA)	230,338	7	W6VPZ	W6HDK
Fresno Amateur Radio Club	228,232	11	WA6JDB	WA6WRS



Another 200k points to the winning NCCC club effort from this gent, WA6MQS.

12th place) in 1976!

Those extra points the leading individuals picked up in 1976 and those ballooning club scores are, no doubt, because the "little guys" were out in force. Some of them moved out of that category and into the potential big-gun classification by virtue of their 1976 performances. Our resident philosopher says it's because many of those casual operators started out to make the 200-QSO award level, found out how easy it was, and proceeded to make 300, 400 or more contacts. The certificates will be mailed sometime in May; 200-QSO, section winner, club winner, and that's it. It was a tremendously successful SS, and we thank you.

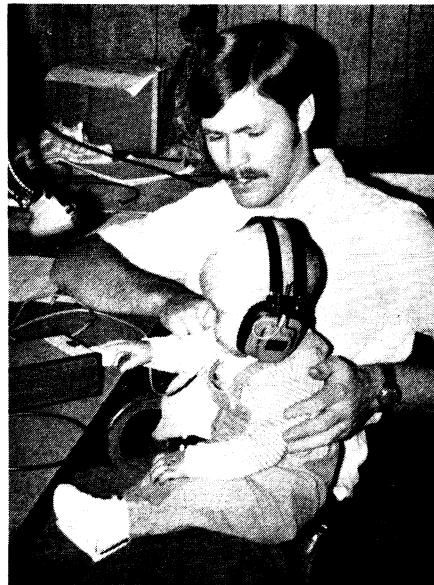
Oh, yes, the results compiled here would never have been completed with-

out the help of Contest Branch Communications Assistant Bill Jennings, WA1AHI, typist Rita Tilley, WA1WEV, and part-time able helper Dan Street, WA1QNF.

Soapbox

My good friend John, K9YBC, was married during the cw weekend. He will be remembered as having been an excellent SS operator. R.I.P.! (K9LWV) The miracle of ham radio — a refugee from Brooklyn goes to Vermont and instantly becomes a celebrity on 20 meters. (WB2JSJ/1) My XYL has made a noteworthy observation: There is a significant reduction in desire to operate the radio after 24 hours of operation. Conclusion . . . there really can be too much of a good thing! (K0JGH) Perhaps

Nicolet High School ARC(WI)	226,350	4	WB4SKI
Five Flags Amateur Radio Assoc.(FL)	211,642	3	
Lincoln Amateur Radio Club(NE)	204,944	3	
 Norwood Amateur Radio Club(MA)	200,274	4	
ARINC Amateur Radio Club(MD)	196,722	8	W3TOS
IBM Oswego Amateur Radio Club(NY)	185,536	4	WA3UUO
Electronics Museum ARC(CA)	184,968	5	W6ASH
Burlington Amateur Radio Club(VT)	184,772	4	
PENNARC(PA)	182,390	8	WA3WVT
Schenectady Amateur Radio Assoc.	181,368	4	WB2QDP
Lake County Amateur Radio Club(IN)	177,702	3	
Connecticut Wireless Association	174,694	5	W1BIH
University of Manitoba ARS	164,716	4	
 Wabash County Amateur Radio Club(IN)	162,708	8	W9JOO
Douglas County Amateur Radio Club(KS)	162,456	4	W9JOO
Memphis Amateur Radio Association	157,588	8	AB4WHE
Ft. Wayne Radio Club	153,548	3	K4TTA
Muskegon Area Amateur Radio Club	148,868	8	WB8OQR
Blossomland Amateur Radio Assoc.(MI)	148,588	8	WB8DZR
Johnson County Amateur Radio Club(KS)	139,260	3	
Framingham ARC(MA)	138,548	6	
Atlanta Radio Club	137,134	3	
Richardson Wireless Klub(TX)	135,890	6	WB5SBH
 Eastern Iowa DX Association	135,258	3	
Foothills Amateur Radio Society(CA)	110,548	6	AB6GNM
Farout Amateur Radio Club(OH)	100,890	3	
Neenah-Menasha ARC(WI)	98,446	3	AB9PYE
West Jersey Radio Amateurs	97,304	3	WB2LBT
Hellgate Amateur Radio Club(MT)	95,668	4	K7CTI
Delaware Amateur Radio Club	95,508	4	
Acadia Naval Radio Amateur Club(ME)	94,920	4	
Murray State University ARC(KY)	91,720	4	
Dayton Amateur Radio Association(OH)	78,938	5	WB8QXN
 Reading Radio Club	78,308	6	K3DTD
807 Club of Kokomo	73,458	3	WB3AAK
Spokane Radio Amateurs	70,990	5	W9KQD
Chicago Radio Traffic Association	52,614	5	K7AWB
Parma Radio Club(OH)	49,560	3	W9HPG
Wellesley Amateur Radio Society	34,646	3	WA1TAK
TARCOM(NY)	32,072	6	WA2EXI
Great South Bay ARC(NJ)	30,000	3	
West Park Radiops(OH)	23,828	5	WB8UFO
Rip Van Winkle Amateur Radio Society	14,090	3	
 Mobile Sixers Radio Club(PA)	6808	3	WB4BDD
Iolani School Radio Club(KH6)	6294	3	



Multi-operator, obviously. Proud pop WB8DQP takes time out from WB8JBM/8 SS operation to demonstrate proper keying technique to six-month-old Robby.

them listen during SS when 1000 stations are all on the same frequency at the same time. (WB0MCL) It took seven of us to put up the beam that smashed into the neighbor's fence, and four of us to find all the lost pieces. (WA4GNI) My first chance to enter an hf contest (been on 50 MHz since 1963). Wonder what effect the TV telecast of "Gone with the Wind" had on the last few hours of the contest? (WA5IYX) It occurred to me at the last minute that N6V was available for only two more weeks — Put it on in SS! So I did. Of course the call was the best part. Only one contact was lost as a result of "K6?" QSLs are available for N6V SS contacts from "Mojo," WB6DJP, Caltech 1-55, Pasadena, CA 91126. (N6V/WB6DJP)

we need to go back to the low-power multiplier again. This would encourage energy conservation. (W5QJH) Frustration is having to work the SS from the Novice bands, while awaiting your Advanced ticket in the mail. But was

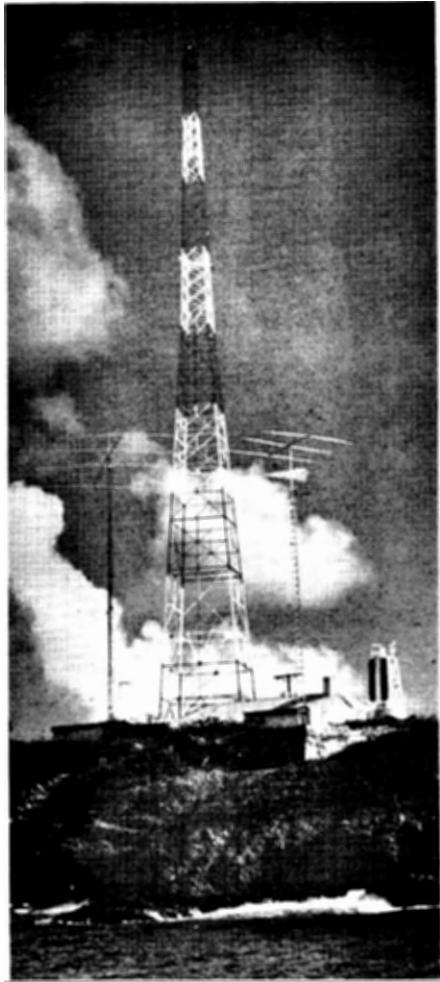
pleased at the invariably courteous attitudes of the other operators for QRS, fills, etc. Didn't find any bummers this trip! (WB6BYH) With the exception of Alaska, Rhode Island, Delaware, Mississippi and Tennessee, I worked every section I heard, and I didn't get a chance to call any of those except the KL7, who was buried in a pile of eager section hunters. Calling him with 100 watts and a wire antenna was like trying to work AC4YN in Tibet with a pair of semaphore flags from Chicago. (W1PKW) I sure wish I knew why the total number of calls on the dupe sheet doesn't add up to the amount of QSOs in the logs, just after I finished duping all my logs! (AA6DYZ) When anybody wonders why amateurs need their frequencies and maybe more, just have

Top Ten

PHONE	CW	
W0TR	285,900	KV4FZ
KV4FZ	282,750	AA5LES
WA7NIN	262,950	KP4AST
WA7WXY	261,900	WA7NIN
WB2OEU	253,050	K4GSU
K5LWL	244,050	K6NA
WB5OOE	240,600	W5WMU
W7RM	239,850	WB0DJY
W5WMU	227,550	WB4AEX
WA1LNQ	225,450	W7IR



MRRC President and general go-getter K8RMK, in one of his more reflective moods.

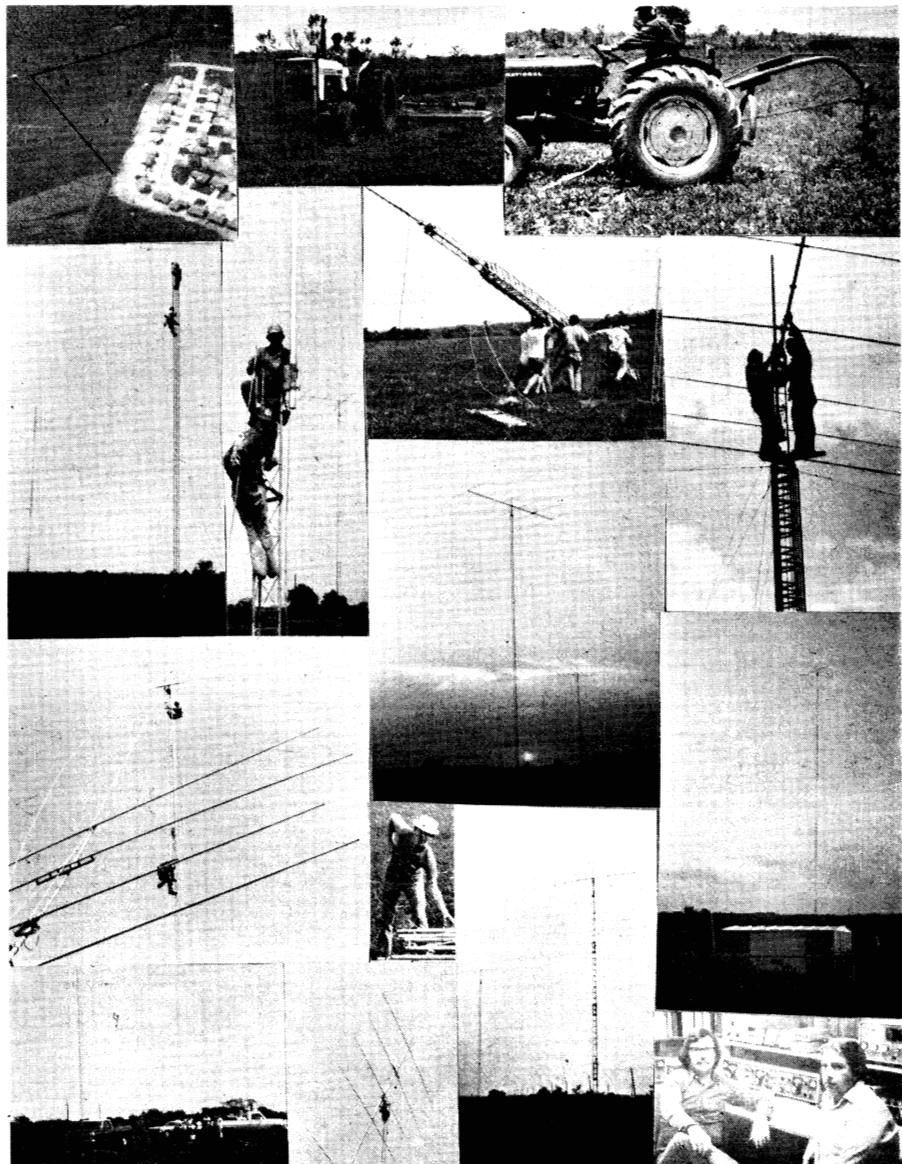


Number one on cw, number two on phone, but who cares about contests? This is your ham radio location of the year, KV4FZ in the U.S. Virgin Islands. K7VPF managed to ignore the blue sky, the sunshine, the natives and the blue Atlantic long enough to operate a couple of November SS weekends from this majestic site.

For the first time since SS no. 1, I was able to work all sections on both modes in one year. (W6BIP) This was my first time at it . . . was insane . . . no stations sent slower than 40 wpm . . . if I sent slow, I was ignored . . . If I sent fast, I was too sloppy to copy . . . All the high-power sigs buried by 160 watts . . . I sprained my wrist . . . I loved it. (WA4FMA) If ARRL wants to move Hq. to a different spot, I vote for NWT. (W1ERW) Thank goodness for the demise of the Bicentennial calls! (VE3GD) Got so sleepy that I started copying all QSOs as ZZZZZZZZ! (WB5PTE) Worked 74 sections. Haven't watched Walter Cronkite lately. Did we give up the Canal Zone to the Panamanians? (WA1WEM) Suggestion on the dupe sheets. Put a designation on them for WD call signs so you will have one uniform symbol for these calls. (WB9PIR) If my score keeps increasing as it has for the past few years, in 25

All-Time High Power Leaders

CW	PHONE					
W3LPL	159,432	76	Atlantic	W3KWB	204,150	76
W9YT	154,800	74	Central	WA9BWY	216,450	76
WA0ONL	145,692	76	Dakota	WA0ONL	219,150	76
W5WMU	166,294	76	Delta	W5WMU	227,550	76
K4GSU	169,488	76	Great Lakes	WA8PLZ	213,014	76
WA2UOO	161,476	76	Hudson	WB2OEU	253,050	76
K0GXR	134,550	74	Midwest	K0GXR	180,310	76
W1FBY	160,284	76	New England	WA1LNQ	225,450	76
W7RM	168,150	74	Northwestern	WA7WXY	261,900	76
WA7NIN	172,950	76	Pacific	WA7NIN	262,950	76
W4KFC	156,859	65	Roanoke	K4YF	214,950	76
WB0DJY	166,050	76	Rocky Mtn.	W0TR	285,900	76
KV4FZ	193,500	76	Southeastern	KV4FZ	282,750	76
W6RR	172,350	74	Southwestern	W6HX	253,200	76
AA5LES	182,780	76	West Gulf	K5LWL	244,050	76
VE7CC	145,562	76	Canadian	VE5DX	185,100	76



Building winning antennas for WA5LES and hired-gun K5LWL (l-r, bottom right photo) is no easy task, as the above pictures taken over seven months of labor by some forty helpers, indicate.

years, watch out! (WB2FRH) Now why would a grown man stay up half the night, smoke six packs of cigarettes,

develop "brass wrist," a sore back and ruin his nervous system? (WB9VRC) The Extra portion of the bands are nice

Clean Sweep Phone

WA1LNQ	W8FAW/4	W7CB/6	W8SWB	W1DGL/1*
WA1QNF	W4YUU	K6LL/6	K8MFQ	K1KDP*
WA1JZC	W1FCC/4	WB6EDM/6	WB8URN	WB2MZU*
WA1STN	K4PJ	WB6AIN	WB9HAD	K3CR*
W1CF	K4YF	W6OKK	WA9PBK	W3KWH*
W1ZA	W3ZKH/4	AA6PGB	K9BGL	W4AQL*
W1RR	W4WSF	WB6LPK	WB9BWU	WA4EJX*
W1UQ	W4QCW	K6NA	WB9DZS	W4BVV*
W5UDK/1	KV4FZ	W6KQG	WA9NVF	K4VT*
K1RQE	W5WMU	K7JVR	W9GT	W4DM*
K1GQ	WB5LZC	WA7WXY	WA9IXF	K0DX/4*
WA1ABW	WB5OOE	WA7NIN	K9HDE	AA5RXT*
WB20EU	W5TMN	W7TML	WA9BWY	K6AUC*
WB2VFT	K5RHZ	W7RM	K9CDB	K6ZM*
K3DPQ	WA5UCT	W7BUN	K9KGA	WA6GFY*
K3AWZ	K5LWL	K8IDE	W0TR	W6BIP*
K5JZN/3	K6RV	WA8QEF	WB0LLR	KH6GQW*
W3KWB	K6HIH	WA8MOA	WB0MIV	K9HDZ*
W3GRF	W6RGG	WB8BGY	W0QWS	W0QQQ*
AC3USS	W6RJR	W8BNF	WA0ONL	*Multi-operator
W3AZD	K6AC	WA8YWX	VE5DX	
K3ZAW	WB6YBL	WB8UKX	VE7WJ	
WA3SXH	W6SVN			

Clean Sweep CW

K1ZND	WA7NIN(W6OAT,opr.)	W4UPJ*
K4PJ	W7TML	K6ZM*
KV4FZ	K7RA	W6YX*
WA5RTG	W8OK	W6BIP*
W6UA	W8DB	*Multi-operator
W6JZU(WA6TLV,opr.)	WB0DJY	
WB6KBK		

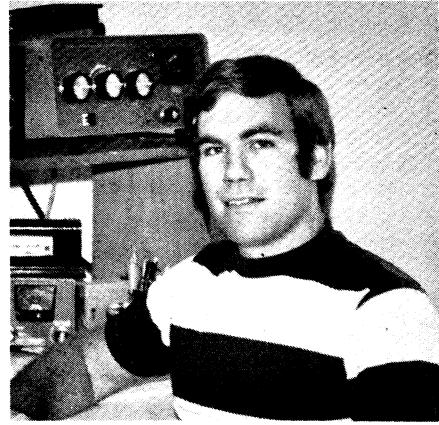
All-Time Low Power Leaders

CW			PHONE			
WA3SWF	115,632	76	Atlantic	WA3TBW	124,960	76
WB9GFC	128,772	74	Central	WB9GFC	129,940	74
WA0BWM	100,110	72	Central	WB		
WB9GFC	128,772	74	Dakota	WB9GFC	129,940	74
WA0BWM	100,110	72	Delta	WB0DSP	122,850	72
WA5VDH	129,940	76	Delta	WA5VDH	179,400	75
W8CQN	137,492	74	Great Lakes	W8TR	117,718	76
WB2RJJ	111,024	73	Hudson	WA2LBT	96,652	76
WA0PAO	108,478	76	Midwest	K0CVA	120,000	75
WA1QNF	101,762	74	New England	K1EUF	152,144	71
W7YTN	95,904	76	Northwestern	W7CFL	114,300	71
K6SSJ	106,042	73	Pacific	K7JCA/6	153,825	73
W4WSF	103,222	76	Roanoke	K4PQL	138,380	74
WB0DLE	113,040	72	Rocky Mtn.	WB0MIV	176,100	76
K4VFY	108,914	76	Southeastern	K4WAR	119,550	69
K6LKD	115,344	74	Southwestern	WB6PXP	136,656	75
K5RHZ	117,216	70	West Gulf	K5RHZ	148,000	70
VE2AXW	71,994	74	Canadian	VE6ATT	84,180	76

for us QRP types, as the QRM is light and a few contacts, particularly on 80 can be made there. (WA6UAV) Since I'm working on 5BWAS, I was hoping that 10 meters might open up during the contest (I need most of my remaining states on 10). I did listen on several occasions during the contest, but heard no activity. Also, 15 was open nicely here around 1930Z on Sunday, at which time I worked both coasts as well as old reliable, KH6IJ. (WB0INQ) Very pleased to hear the courtesy shown to ragchewers. There really is room for all of us. (WB0TFM)

Scores

Scores (beginning next page) are grouped by call area, ARRL section, and in order from highest to lowest score; single-operator stations first and multi-operator second. The letter "A" or "B" at the end of each line score indicates the power class of the entry. Example: W1FBY 160,284 - 1083 - 74 - 24 - B means 160,284 total points, 1083 contacts, 74 sections, 24 hours of operation, power over 200 watts. Asterisks denote full-time Headquarters staff members, not eligible for awards when operating their own station or that of another staff member.



Steve, WB4FEC, produced one of five 100k cw scores from North Florida in 1976.

**College/University Club Station Scores
(multi-operator entries only)**

CALL	SCHOOL	TOTAL SCORE	CALL	SCHOOL	TOTAL SCORE
W6YX	Stanford University	305,864	WA2NPQ	State Univ. of NY - Buffalo	106,582
W0QQQ	Kansas State Univ.	304,392	WA6IMY	Univ. of Cal. at Davis	104,976
W4AQL	Georgia Tech.	257,082	W9YB	Purdue Univ.	104,256
W2SZ	Rensselaer Poly. Inst.	230,718	K2MFF	Newark College of Engineering	88,750
K3CR	Penn. State	229,240	W1MX	Mass. Institute of Tech.	88,622
W4EAL	Univ. of Tennessee	174,020	WB0OKX	Missouri West. State College	74,256
W8LT	Ohio State	164,872	W0YC	Univ. of Minnesota	65,412
AC5AC	Texas A and M Univ.	161,914	W7YH	Washington State Univ.	63,616
W0ZLN	Univ. of Missouri	147,168	WB4BNH	Univ. of South Florida	57,728
K2GXT	Rochester Inst. of Tech. (NY)	139,034	W3MGF	Drexel Univ. (PA)	41,168
W1YK	Worcester Poly. Inst. (MA)	125,954	W6BB	Univ. of Calif. at Berkeley	24,378
K1AD	Brown Univ. (RI)	118,432	W9JWC	Bradley Univ. (IL)	23,632
W0EEE	Univ. of Missouri - Rolla	110,260	W5YJ	Oklahoma State Univ.	532
WB5AXC	Univ. of New Mexico	109,872	K4FAU	Florida Atlantic Univ.	180

CW Scores	VERMONT	W2FBF	25,500	250-51- 7-B	W3FA	5,1348	389-66-15-B	K3OMI/4	14,040- 135-52-13-A
U.S.A.	W1AYK 85,136- 626-68-20-B K1IIK 68,474- 511-67-14-B W1HQB 25,082- 246-51-15-B K1VTF 19,890- 198-59-9-B CONNECTICUT WB2JSJ/1 7316- 118-31- 7-A	W2EPA	25,164	233-51- 7-B	W3HPG	46,132	382-66-16-A	WA4FKY	4984- 89-28-11-A
1	W1FBY * 160,284-1083-74-24-B W1ZM(WA2CLQ,opr.) 154,068-1041-74-24-B	W2PAZO	23,080	197-52-10-A	WA3UHJ	48,132	382-66-16-A	WA4HRD	2300- 50-23- 7-B
K1ZND *	144,600- 964-75-24-B W1LNQ * 144,141-1001-72-24-B	K2HPV	18,930	221-45-18-A	W3GZQ	46,992	356-66-17-B	NORTHERN FLORIDA	
W1CW(WA1NRF,opr.) 139,968- 972-72-24-B	W2UJI	17,238	169-51- 8-A	K3JET	45,260	310-73-16-A	W4YUU	148,320-1032-72-24-B	
W1GNC *	136,604- 923-74-24-B	W2AHEP	16,728	204-41-21-A	W3AVP	44,604	354-63-22-B	AA4UFW	110,192- 776-71-24-B
WA1MAO(WA1NRF,opr.) 135,568- 916-74-24-B	W2REB	13,072	172-38-11-A	K3RS	43,676	358-61-14-B	K4VFY(WA4MC,opr.)	108,914- 767-71-20-A	
WA1JZC 129,504- 912-71-24-B	W2A2NEQ	12,060	134-45-14-A	AA3AFQ	40,612	286-71-10-B	WA4FE/4	107,136- 744-72-24-B	
WA1GNF 122,203- 837-73-24-B	W2A2YEM	10,080	120-47-13-A	W3EAX(WA3T,opr.)	39,478	389-9-11-B	WA4OM	106,120- 758-70-22-B	
WA1GZH 121,586- 789-71-23-B	W2A2YGM	9,500	120-37-12-A	W1NJX/3	39,162	321-61-17-A	K4EAN	72,528- 539-67-15-B	
K1TDZ(WA1OCU,opr.) 102,408- 753-68-23-B	W2A2YLG	9,240	120-37-12-A	W3IHM	39,000	325-60-10-B	WB4SKI	107,136- 744-72-24-B	
W1DGL/1 101,664- 706-72-24-A	AD2S2W	7,524	120-37-12-A	W2FQY	5624	76-37-15-B	WA4FEC/4	106,120- 758-70-22-B	
WA1KOC 96,134- 677-71-24-B	WB2UVB	7,480	110-34-10-A	K3URZ	36,190	329-55-10-A	KA4EAN	72,528- 539-67-15-B	
W16PK 91,664- 674-68-22-B	W2A2YH	5,816	434-62-20-A	WA2HKG	4644	86-27-11-A	K4EIN	39,528- 40-1-A	
WA1WVK * 81,472- 608-67-24-B	W1UUK	45,110	347-65-18-A	K2QXQ	4420	85-26-19-A	AB4GHU	37,812- 274-69-16-B	
WA1B1W 79,760- 248-60-7-B	W1TM	28,952	329-44-14-B	W2W2JL	3010	58-20- 9-A	WB4JCW	32,280- 269-60-12-B	
WA1WDF 29,913- 192-60-2-B	WA2YUL	53,298	423-63-19-A	W3JUC/2	2510	54-25-14-B	K4JEM	28,980- 207-70-23-A	
AA1ALC 28,800- 240-60-2-B	WB2QDP	45,440	355-64-24-A	WB2VLD	1806	43-21- 8-B	WA4BTC	22,990- 209-55- 5-B	
W1ODV 27,784- 302-46-21-A	K2T7G	45,024	336-67-20-A	W2GND	1536	32-44- 4-A	WA4OEM	9,374- 109-43- 9-A	
WA1YAH * 23,370- 205-57- 9-A	WB2A2LX	44,380	317-70-22-B	W3ZCP	1054	31-17- 3-A	WA4FMA	8,334- 106-44-13-A	
W1VH 22,550- 205-55-14-B	WA2YVM	19,382	308-61-22-A	WA20XA	73,296	509-72-19-A	WA4DFU(WB4AJL,opr.)	8,334- 106-44-13-A	
K1KRY/1 22,442- 229-49- 8-A	WB2WQA	37,088	304-61-17-A	WA20XQ	7980	105-38- 4-A	WB4DTs	4536- 63-36- 5-A	
WA4FIB/1 * 15,960- 140-57- 9-A	W2FPG	33,152	259-64-11-B	WA2BZMP	43,298	328-66-19-B	WB4QBB	1554- 37-21- 5-A	
WA1NSP 15,309- 153-59- 9-A	AB2BXL	30,912	276-56-12-B	WA2BZM	43,728	325-66-21-A	WB4YFFF(+WB4DRZ)	86,802- 629-69-23-B	
WA1FCP 11,781- 153-59- 9-A	K2H2A	21,010	191-55-11-A	WA2OKF	33,728	326-66-21-A	WB4ZOF	20,246- 191-53-14-A	
WA1CR 8610- 123-35-12-A	WB2CFP	18,768	184-51-19-B	WA2DQF	32,294	241-67-22-A	K3YOF	19,698- 201-49-14-B	
WA1VVA 7722- 117-33-11-A	WB2WAE	12,298	184-47-19-B	WB2DT	7,102	157-50- 3-A	WB3ZAS	17,958- 219-41- 6-B	
WA1YDK 6930- 105-33-18-A	WA2CJB	12,400	184-47-19-B	WB2T7E	66,330	495-67-12-B	AA3THD	16,688- 178-41- 6-B	
W1KAM 6534- 99-33- 7-B	WB2CJY	10,296	177-14- 8-A	WB2ZRI	60,102	477-63-24-B	WB3TE	13,734- 139-53-15-A	
W1FFR 3000- 50-30- 4-A	WB2DXL	11,820	177-14- 8-A	WA2MBM	58,788	426-69-15-B	W3TN	14,100- 150-47-16-A	
WA1NKK 14,480- 384-19- 2-B	WB2ZOW	5928	76-39- 8-A	WB2ZOW	51,322	383-67-19-A	WA3ZAK	13,54- 57-31-1-A	
WA1FCN 906- 30-16- 6-A	W2NRD	3876	57-34-10-A	K2HYM/2	44,488	332-67-15-B	W3KWA	24,000- 50-24- 3-A	
WA9ALUM/1 * 408- 17-12- 1-A	WB2HTV	2688	56-24- 6-A	WB2SMP	43,298	328-66-19-B	K4DA5	101,614- 20-1-A	
WA1OBY(WA1QGC,opr.) 64- 8-4- 1-A	WB2L2QZ	2352	49-24- 6-A	WA2BZM	43,728	325-66-21-A	AA4NNF	87,630- 635-69-20-B	
WA1HRC(WA1SHX,TUT,VM1, oprs.) 22,880- 210-54-17-A	WB2ZPQ	11,258	773-73-24-B	WA2OKF	32,294	241-67-22-A	AB5QDW/4	85,760- 640-67-22-B	
W1DQJ(+WA1YV1,opr.) 18,616- 179-52-13-A	WB2ZPZ	11,258	773-73-24-B	WB3DQF	216	12- 9-11-A	K4FMA	62,352- 433-72-24-B	
WA1YWS(+WA1YV1,opr.) 4144- 74-28-23-A	WB2ZPZ	7120	89-40-24-A	W2RIL	32,016	232-69-21-A	K4JDC	44,616- 338-66-20-B	
EASTERN MASSACHUSETTS	N.Y.C.-L.I.	WB2PYM	111,470	785-71-20-B	WA2AOG	22,770	207-55- 6-A	WA4GNI	42,840- 340-63-18-B
WA1JUY(WA2LQZ,opr.) 91,914-1090-72-24-B	WB2FVS	107,712	748-72-23-B	WA2EYA	22,154	209-53-24-A	WA4JN1	36,270- 275-65-14-A	
W1DAL 13,561- 905-71-24-B	WA2YFS	101,956	718-71-24-B	K2V0F	13,974	137-51-11-A	WA4JZT	72,988- 514-71-24-A	
W1AF(WA1UIK,opr.) 125,670- 885-71-23-B	AB2SJG	101,616	696-73-24-A	WB2WRT	10,910	153-36-24-A	WA4AQ	25,652- 242-53-19-A	
W1ZA(K1LPA,opr.) 118,844- 814-73-24-B	K2AU	98,404	674-73-24-B	WA2EVE	10,900	153-36-24-A	WB4ZC	25,536- 217-59-19-B	
W5UDK/1 87,161- 839-73-24-B	AB2DZZ	87,500	625-70-22-A	WA2VQ	950	9-10- 9-A	WA4ZU	27,040- 242-60-18-A	
WA1MD 83,444- 797-73-19-A	WB2L2H	74,592	518-72-21-B	WA2BZP	700	25-14- 4-A	WA4QWQ	96- 8- 6- 7-A	
WA1VMU(WB2VYV,opr.) 84,096- 584-72-18-B	WB2LKH	67,060	479-70-19-A	WB2VGH	1380	30-23- 3-A	AA4LZR(W4LKG,W4AFC, oprs.)		
WA1WAI 71,944- 529-68-13-B	WB2LWE	1520	179-19-A	WB2HPC	1178	31-19-13-A	WESTERN PENNSYLVANIA		
WT1AFAF 71,568- 504-71-22-B	WB2WPH	442	17-13- 1-A	WB2DEO	1160	29-20- 4-A	WA3WIW(KA3SXZ,opr.)		
W1DLH 69,810- 53-72-18-B	WB2ZPQ	10,080	105-53-19-A	WB2EJO	116	31-18-12-A	K4FAU(WA4UQA,WB4FLW, UQ1, oprs.)	82,080- 570-72-22-B	
WA1WHD 66,240- 50-50-18-B	WB2ZPZ	9,960	105-50-18-B	WB2FQ	100	32-20- 6-A	WB4FAU	180- 10- 9- 2-A	
WA1EOT 55,652- 436-66-12-B	K2YGM	26,096	233-56-14-A	WA2VQ	64,896	507-64-20-B	TENNESSEE		
WA1WAX 46,900- 350-67- 8-B	WB2GKZ	23,546	193-61- 7-B	WA2NPQ(WA2EQ,ICU,WB25, EYO,HOY,opr.)	56,950- 425-67-11-B				
WA1NSR 44,032- 344-64-20-A	WB2MDM	87,500	625-70-22-A	WA2AVQ(+WB2AUD)	30,240- 270-56-23-A				
W1MZN 43,036- 371-58-24-B	WA2ZGR	22,962	267-43-10-B	WA2DHZ(+WA2AUSD,opr.)	4736	74-32-15-A	WB4WFT	28,426- 233-61- 8-A	
WA1UGJ 24,940- 215-58-11-A	WB2LWE	21,730	205-53-19-A	K3KAJ	1716	39-22- 2-A	WA4JVO/4	16,224- 156-52- 5-A	
W1BND 22,689- 210-53-19-B	WB2US	10,080	105-53-19-A	WB2A2R	12,380	517-70-22-B	WB4PLZ	163,082- 1117-73-24-B	
WT1FIR 22,456- 208-54-11-B	WB2WPT/2	4,874	105-53-19-A	WB2A2Y	9,896	507-64-20-B	W1FCB/4	125,504- 848-74-24-A	
W1NL 20,160- 180-56-12-B	WB2RSH	7520	94-40- 9-A	WB2A2Y	56,950- 425-67-11-B	W1FCD/4	85,680- 595-72-20-A		
AC1PL 13,674- 129-53- 7-A	WA2URD	1386	33-21- 3-A	WA2A2Y	30,240- 270-56-23-A	K4DMC	85,680- 405-64-10-B		
WA1TAK 11,804- 127-26-19-A	WB2HRB	50-	5- 3- 3-A	WB2A2Y	29,030	305-34-21-A	WB4WME	83,376- 298-56-16-B	
WA1UTJ 11,610- 135-43-12-A	WA2FFQ(2+WA2CSR)	10,184	134-38-23-A	K3KAJ	1716	39-22- 2-A	WB4WHE	31,376- 289-65-19-B	
WA1PWF 11,232- 156-36- 8-A	WB2FFQ(2+WA2CSR)	3	-	WB2A2R	12,380	517-70-22-B	WB4WME	31,376- 289-65-19-B	
WA1KQJ 9840- 123-40-17-A	WB25ZQ	96,460	689-70-24-B	WB2A2Y	12,380	517-70-22-B	WB4WHE	31,376- 289-65-19-B	
WA1URU 7440- 120-31-16-A	WB2SHM	90,144	626-72-17-B	WB2A2Y	9,896	507-64-20-B	WB4WHE	31,376- 289-65-19-B	
WA1RGW 7200- 100-36- 6-B	WB2RJ	87,454	599-73-15-B	WB2A2Y	6,920	32-20- 6-B	WB4WHE	31,376- 289-65-19-B	
WA1RLI 7134- 123-29- 8-A	WB2RJ2	30,114	239-63-24-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
K1PTE 5120- 82-31-12-A	WB2RZ	27,588	242-57-11-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
WA1ZAZ 47,568- 82-31-12-A	WB2RZ	22,060	103-31-12-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
WA1WMM 2828- 56-44-24-A	WB2RZ	139,104	966-72-23-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
WA1NME 2028- 40-26- 4-A	WB2FRH	59,520	496-60-23-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
WA1OMH 1452- 33-22- 4-B	WB2BSC(WA2NT1,opr.)	49,010	377-65-23-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
K1VVC(W1K1D, W1DL) 26,432- 236-56-22-B	WB2BSC(WA2NT1,opr.)	59,520	323-65-21-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
W1YN(W1K1OME, W1FVJ, oprs.) 21,600- 240-45- 6-B	WB2BSC(WA2NT1,opr.)	45,400	304-49-19-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
W1FY(W1BU, WA1MR, VJF, oprs.) 8500- 125-34-21-A	WB2BSC(WA2NT1,opr.)	41,168	332-62-15-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
MAINE	SOUTHERN NEW JERSEY	WB2ARS	37,128	365-51-16-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B
WA1TJV 100,878- 731-69-22-B	WB2WZ	33,916	278-61-11-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
K1W5K 70,680- 561-63-24-A	WB2FZG	32,818	269-61-12-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
AA1FCM 64,736- 476-68-20-A	WB2PZG	20,000	195-60-18-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
WA2HSP/1 53,436- 366-73-21-A	AB2CST	29,400	300-49-18-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
K1RGE 37,522- 257-73- 8-B	WB2LHA	21,246	207-59-17-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
W1ERW 33,152- 224-74-18-A	AB2ZCI	23,968	214-56-15-B	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
W1SD 30,954- 231-67-14-A	K2TWK	22,550	205-55-17-A	WB2A2Y	3,904	61-32- 2-B	WB4WHE	31,376- 289-65-19-B	
W1FS 39,482- 68-28-10-A	WB2A2Y	18,810	209-45-18-A	WB2A2Y	3,904</td				

WA3EUG	24,440	235-52-16-A	K4JYQ	27,776	248-56-7-B	W4WSF	128,400	856-75-21-A	K6SSJ(WA6DGS,opr.)	168,000-11151-73-24-B
WA3ABN	22,472	212-53-12-A	WB4JNL	16,016	154-52-10-A	W4QCF	106,500	710-75-19-B	WA6PCB	100,000-11147-75-24-B
W3BUR	19,834	211-47-9-A	WA4EDY	12,502	133-47-8-A	W4VMB	104,086	733-71-21-B	W6JZU(WA6TLV,opr.)	155,782-1067-73-24-B
WA3OFD	17,892	213-42-16-A	W4DS	10,496	80-64-11-B	K4DTD	102,240	710-72-19-B	AA6DQM	136,456-922-74-23-B
WA3VJS	17,100	171-50-16-A	K4JK	3740	55-34-4-A	K4GKD	102,240	710-72-19-B	K6DC(WB6KBK,opr.)	130,670-895-73-23-B
WB3AAK	15,600	195-40-22-A	WB4NLK	1892	43-22-2-A	W4JGC	9,140	601-65-12-B	K6BR(WA6ENP,opr.)	119,784-868-69-15-B
WB3AZL	12,516	264-22-20-A				W4MYA	84,130	601-65-12-B	K6FB(WB6JGS,opr.)	105,552-733-72-24-B
WB3CAC	11,618	114-49-11-A				K5C1T/4	75,442	563-67-19-B	W6CF(WA6GSN,opr.)	99,900-675-74-24-B
WA3YMV	10,500	125-42-9-A				WA3FUV/4	63,000	500-63-16-B	AA6MQS	99,426-681-73-24-A
WB3BDD	6794	79-43-7-A	WB4LOK(WB4TVU,opr.)			WA4JY	4,384	318-69-18-B	W6MSF	97,341-658-74-22-B
K3ECV	4352	68-32-7-A		146,064-1074-68-15-B	WA4YZC	50,400	360-70-12-A	W6MUR(K6ZXW,opr.)	92,300-650-71-18-B	
WA3WPA	3410	55-31-4-A	AD4BAI	69,224	509-68-16-B	WA4JY	4,384	318-69-18-B	K5LWL	244,050-1627-75-24-B
K3TVT	31,910	63-22-5-A	WB4JY	59,000	200-63-16-B	KA4SHL	58,500	450-65-16-B	K5PFL(WB5AWX,opr.)	105,552-733-72-24-B
WB3MF	24,480	166-68-39-15-B	WA3VJA/4	24,668	399-66-15-B	K4CGK (K3WUU,opr.)			WA5QPA	25,296-204-62-8-B
W3IT	16,800	40-21-6-A	WB4TZ	41,300	350-59-9-A	K4EBY	43,200	300-72-7-B	W6BRIU	54,470-419-65-14-B
K3AGU	1672	44-18-9-A	K4KJ	35,632	262-68-9-A	W4EI	42,746	317-67-13-B	WA6AVS	53,040-408-65-24-B
K3YLL	280	14-10-3-A	K4EZ	30,208	236-64-6-B	WA4JVN	38,080	272-70-15-B	WA6HCI	50,960-364-70-17-A
WA3KFT	12	3-2-1-A	K4CR	29,636	239-62-10-A	K4JW	35,640	297-60-20-B	W6KPI	51,122-339-74-13-B
WA3OVH(WA3s,NHO,RVT,WUI,			WA4PRM	23,780	205-58-18-A	K4JY	33,750	261-58-18-A	W6KLG	45,591-434-56-17-A
WB3ALL,opr.)			WA4VW	22,571	215-58-18-A	WA4WYN	32,666	239-67-17-A	W6PCO	45,449-355-64-17-A
WB3Z1(+WB2s,ASO,DHD,WB2AFM,	58,616	431-68-21-B	AC4LGM	11,858	21-49-4-A	WA4TMN	31,152	264-59-16-B	K6EIH	39,000-300-65-14-B
WA3UOC)	33,630	285-59-24-B	AC4GXW/4	11,092	118-47-9-A	WA3SIQ	29,636	239-62-20-B	WA6HJV	27,328-244-56-16-A
W3EDU(WB3s,AJW,BJP,opr.)	31,944	242-66-24-B	AC4GKI	2080	40-26-5-B	WA4ZM	28,644	217-66-8-B	AB6GNM	26,448-232-57-12-B
MARYLAND-D.C.			WA4QL(W,opr.)			W4GF	27,910	200-60-9-B	W6EMDF	22,366-211-53-18-B
W3KWB(WB3AJQ,opr.)			WB4OSS	187,960	1270-74-24-B	AC4UBE	11,340	126-45-15-A	W6EMR	22,220-202-55-18-B
K3ZO	202,356	1386-73-24-B	WB4KTR	107,894	739-73-22-B	WA4MSX	10,152	141-36-10-A	WA6BZT	21,151-200-70-18-B
W3GRF(W3Z2,opr.)			WA4AQM	72,224	488-74-24-B	WA4PNS	9600	100-48-7-A	6	19,098-162-74-20-B
W1FLM/3	166,002	1137-73-24-B	WA4UNJ	48,576	368-66-23-A	K4JWD	97,120	124-63-16-B	WA2PRB/5	27,376-235-68-24-B
AC3USS(WA1FEQ,opr.)	158,850	1059-75-24-B	WA4QPV	44,294	321-69-18-B	K4FOK	91,484	143-33-1-B	W5RRR(W5LS,opr.)	20,300-23-50-14-A
W3AZD	157,050	1047-75-24-B	WA4BPF	27,258	306-61-15-A	WA4NOB	21,500	215-50-24-B	AC5AC(WB5s,AZ1,BPG,OOW,PBZ,	161,914-1109-73-24-B
K3WX(W3ADT,opr.)			WB4NTB(WB4DEM,opr.)	36,180	270-67-10-B	AB4B	21,440	225-67-13-A	WB6DSV(WGO,opr.)	57,592-422-68-19-B
W3FA(WA3Zs,opr.)	135,476	1037-74-24-B	WB4NTB	18,728	103-38-B	WA4ZM	16,060	146-55-11-B	K5LWL	244,050-1627-75-24-B
K3ZAW	131,250	875-75-24-B	AB4FOT	34,036	254-67-8-A	WA4JX	15,200	206-60-9-B	WA6AVS	53,040-408-65-24-B
WB3AVN	128,940	921-70-22-B	WA4EBN	33,024	258-64-16-A	WA4PNS	10,152	141-36-10-A	WA6HCI	50,960-364-70-17-A
AC3IN	125,520	884-71-24-B	WA4RIW	27,258	231-59-16-B	K4JWD	97,120	124-63-16-B	W6KPU	51,122-339-74-13-B
WA3SXH	85,950	573-75-24-A	WB4WBO	2500	50-25-4-A	WA4MJE	1600	50-16-2-A	W6WZT	35,88-78-23-6-A
K3ZP/3	88,600	603-70-24-A				K4BKX	864	27-16-2-A	WA6FCK	14,872-143-52-5-A
K3R5K	82,852	607-68-20-A	WB4NTB(WB4DEM,opr.)			WA4VWV(+WA3AMH,2MrNet)	217,950-1453-75-24-B	WA6FCK	14,872-143-52-5-A	
WB3PZW(W3ZNV,opr.)	81,070	605-67-22-B	WA4FFW	154,906	1061-73-24-B	K4VT(+K4EKJ,WB4HPF)	127,650-1131-75-24-B	WA6FCK	14,872-143-52-5-A	
K3C0	77,700	525-74-15-B	WB4PFW	101,000	127-69-18-B	WA4DXT	35900	62-64-6-A	WA6FCK	14,872-143-52-5-A
W3EAX(WA3TOE,opr.)			WB4TYE	61,628	497-62-10-B	WA4DYM(+Net)	117,000	780-75-19-B	WA6FCK	14,872-143-52-5-A
WA3VUQ	74,582	526-72-22-B	K4MOB	60,852	461-66-19-B	WA4DYZ/6	100,800	700-72-24-B	WA6FCK	14,872-143-52-5-A
WA3EPT(WB2UZU,opr.)	70,656	512-69-8-B	WA4NQA	53,760	420-64-9-B	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
AC3GZQ	64,260	459-70-13-B	WB4VHE	29,648	218-68-9-A	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
W3FCI	64,240	440-73-15-B	WA4PSL	26,400	240-55-12-A	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
WA3VPI	64,120	526-62-20-A	WB4BON	19,000	130-55-10-A	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
W3TOM	64,000	504-62-20-A	K4VOM	18,640	158-59-11-B	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
W3UPT	64,692	402-19-18-B	WA4OMW	18,126	159-57-10-B	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
K3MC1	53,600	400-67-13-B	WA4HRD	15,500	155-50-11-B	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
WA3ZJT	51,612	374-69-23-B	WB4SGA	6776	121-28-6-B	WA6GOM	92,400	660-70-23-B	WA6FCK	14,872-143-52-5-A
W3AZW	50,022	397-63-17-B	WA4ZI	4738	103-23-6-A	KV4FZ(K7VFP,opr.)	282,750-1885-75-24-B	WA6FCK	14,872-143-52-5-A	
W3RRX	49,068	423-58-18-B	WB4SGB	3248	58-28-9-A	KV4JY	213,260-1441-74-22-B	WA6FCK	14,872-143-52-5-A	
K3VW	49,060	428-58-18-B	WB4VW	47,700	258-25-9-A	K6ZMM	158,952-1074-74-24-B	WA6FCK	14,872-143-52-5-A	
AA3YMA	47,740	485-62-21-A	K4NV	468	18-13-2-A	K6ZMM	158,952-1074-74-24-B	WA6FCK	14,872-143-52-5-A	
K3KSS	47,034	351-67-11-B	K4YZO	40	5-4-1-A	K6ZMM	158,952-1074-74-24-B	WA6FCK	14,872-143-52-5-A	
WB9AMC/3	45,864	364-63-15-B	K4EG(WA4H,IVP,WB4, BHQ, SGB,VHE,ops.)	4880	61-40-10-B	K6ZMM	158,952-1074-74-24-B	WA6FCK	14,872-143-52-5-A	
K3RS	44,070	339-65-11-B	WA4BTC	338	13-13-1-B	ARKANSAS			WA6FCK	14,872-143-52-5-A
AA3UH	42,366	307-69-9-B				WA5RTG	115,778	793-73-12-B	WA6JUD(+W6BSL,YKM,W6ARW,opr.)	115,924-794-73-23-B
WB2HWH/3	40,880	201-61-2-B				WB5XTU	104,400	725-72-21-A	WA6JUD(+W6BSL,YKM,W6ARW,opr.)	86,430-645-67-22-B
WA3UUO	35,230	271-65-19-A				WA5SDT	101,246	713-71-18-B	AC6OT(multiop)	39,040-320-61-24-B
WB9NZY/3	34,776	276-63-16-A				WA5SDT	73,164	546-67-21-A	W6BB(WB6s,EMA,ICP,opr.)	20,378-231-59-24-B
W3BWZ	33,552	233-73-9-B	WB4OZT	206,016	1392-74-22-B	WA5WMC	31,872	249-64-19-A	K6ZMM	165,450-1103-75-23-B
W3SVW	33,540	258-65-20-B	WA4YUJ	166,650	111-75-20-B	WA5WPS	26,796	231-58-19-A	WA6FCK	14,872-143-52-5-A
W3WVM	31,200	260-60-20-A	WB4LW	159,000	119-69-20-B	WA5WZL	23,100	205-60-18-A	WA6FCK	14,872-143-52-5-A
WB3DRQ	30,600	206-60-19-A	WA4JCY	73,000	540-70-22-B	WA5WZL	23,100	205-60-18-A	WA6FCK	14,872-143-52-5-A
K2SCU/3	28,084	138-59-2-A	WB4ZTW	68,160	480-71-17-B	WA5AER	20,188	206-49-14-A	WA6FCK	14,872-143-52-5-A
AC3KMKV	27,552	246-56-5-B	WA4OEM	27,328	244-56-9-A	WA5FOM	22,000	206-49-14-A	WA6FCK	14,872-143-52-5-A
AA3AFQ	26,950	245-56-5-A	WA4ZPQ	43,500	375-58-22-A	WA5FOM	22,000	206-49-14-A	WA6FCK	14,872-143-52-5-A
K3URZ	2832	59-24-2-A	WA4KMO	29,000	296-61-12-B	K5FPO	177,098	1213-73-23-B	WA6FCK	14,872-143-52-5-A
WA3ROY	1806	43-21-6-B	WA4IB	21,404	263-54-11-A	WB5LZC	151,500	1010-75-23-B	WA6FCK	14,872-143-52-5-A
K3KE	1360	40-17-2-A	WA4ALX	28,072	243-58-12-B	WA5RGL	14,370	649-68-24-B	WA6FCK	14,872-143-52-5-A
K3R1L	2-1-1-B		WA4FWG	28,072	243-58-12-B	WA5RGL	14,370	649-68-24-B	WA6FCK	14,872-143-52-5-A
K3GDJ(+K3CLU)	132,016	892-74-19-B	WA4AKY	22,440	220-51-18-A	WA5RGL	14,370	649-68-24-B	WA6FCK	14,872-143-52-5-A
WA3EKL(WA3s, BDF, KYC, oprs.)	82,198	563-73-23-B	WA4WJ	21,730	205-53-5-B	WA5WJR	12,834	207-31-3-A	WA6FCK	14,872-143-52-5-A
WA3TOE(+K3CNG)	16,160	480-71-22-B	WA4WJH	21,624	212-51-11-A	WA5WJR	11,894	204-62-7-B	WA6FCK	14,872-143-52-5-A
W3NKF(W3s,EW,MNU, PJM, WA3s, THD, YMO, WA4NYS, oprs.)	40,576	317-64-24-B	WA4WORX	13,248	138-48-15-B	WA5WZL	10,872	763-72-24-B	WA6FCK	14,872-143-52-5-A
	51,084	473-54-14-B	WB4BNB(WA4RSA, WB4Ns, NZO, YWI, WB50ZL, oprs.)	57,728	451-64-13-B	WA6FCK	11,680	520-67-15-B	WB6FFE(+WA6GZL)	69,680-520-67-15-B
WESTERN PENNSYLVANIA			WB4PRZ(+K4VB4, WA4KKE, MDM, MIL, MIN, WB4s, ARY, IRG)	51,084	473-54-14-B	WB6FEE	54,248	399-68-20-A	WB6FFE(+WB6s, D01, YAS)	52,260-402-65-21-A
WA3WIK(WA3SZX,opr.)	192,720	1320-73-24-B	WB4LOK(WB4TVU,opr.)			WB5OOE(WB5IZN,opr.)	240,000	160-75-24-B	WA6FCK	223-66-15-24-B
WB3TWS/3	124,960	880-71-24-A				WB5IZN	220,000	146-75-24-B	WA6FCK	223-66-15-24-B
AB3AGH	47									

