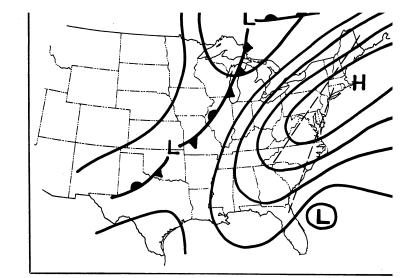
Results, 1984 ARRL September VHF QSO Party



By Edith Holsopple,* N1CZC and Michael B. Kaczynski,** W1OD

t was beautiful. There was Hurricane Diana stuck off the Florida coast, blocked by a big high-pressure system off the Mid-Atlantic states — total gridlock. Linebackers for the Pittsburgh Steelers couldn't have gotten the stalled system to move. It just sat there all weekend, giving birth to a tropospheric duct that resembled the Bullet Train. DX contacts abounded up and down the East Coast, from Florida to Nova Scotia, in the world above 144 MHz. It was a classical gas.

Such were the incredible conditions that made the VHF QSO Party, September 8-9, 1984, more than just a memorable event. It was something that probably won't happen again for another quarter century. Dave, K1WHS, who was pleased to see northern New England included for a change, rates this as one of the two best tropo openings of the last 12 years!

And the scores show it. Mountaintoppers in the "golden corridor" made the best of it with some fantastic QSO and multiplier totals. N8FCJ, featured elsewhere in this write-up, set a new single-op record under the new grid square format, instituted in the '83 contest, with 99k points. Last year's top effort was also bested by WA2OMY/3, a home station, and W1XX/2, another mountain-top solo entry. It took nearly double the score this year to make the single-op top ten.

Meanwhile, on Mt. Greylock, Massachusetts, W2SZ/1 blew their old record out of the water with 660k points, while the W1VD fixed station crew (actually located on Johnnycake Mountain, Connecticut) also bested the SZ effort of last year. A superlative effort was turned in by WB4NMA, at 351k points, as they worked all the 10-watters in the Northeast. To make this year's top ten, the multis needed nearly 3x last year's score. Thank you, Mother Nature!

Six meters had its moments of excitement as well, with double E_s noted in Florida to California, Nevada and New Mexico. WØETT experienced two-way capability to all call areas for about six hours. In the Midwest, spotty E_s also left scattered footprints to points west. Although of short duration, Sunday night auroral fireworks kept KØALL, WØSD and some of the Ontario boys real busy. Also some Midwest stations managed to commandeer a loooonnngggg burning meteor to work Virginia and West Virginia.

Although enhancement was sort of blah for

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Multiplier	Leaders	– Single Op	erator
50 MHz		432 MHz	
NØETT	92	K1FO	44
N5FF	85	WA8TTS/1	44
NB5DSH	81	N8FCJ	41
NB5KTC	73	W1XX/2	37
NBØZKG	64	WB9MSV	37
K5IS	63	WD5BKV	34
(AØMQA	63 62	K8WW	33
N5NZS	62	WB9SNR	33
NB4NJG	61	K4CAW	32
NA5VJB	61	1000 1111-	
NB5RUS NAØNOK	60 60	1296 MHz	
NADNUK	60	NF2P	16
144 MHz		K8WW	16
		K1LPS	13
N8FCJ	79	WA1JOF	12
(2LWR	74	W1JR	11
NA1OUB	65	WA3JUF	11
NBULC (9AKS	62 61	0004 1411-	
NSAFL/9	60	2304 MHz	
NIXX/2	57	WA2TEO	8
NASFYJ	57	N4MW	1
NB9MSV	57	VE3LNX	1
NA2OMY/3	55	W1FR	1 1 1
NDSBKV	53	W4HHK	1
1000K		WA4HGN	1
220 MHz		10 GHz	
N3GPY	28		
NA4NJP	23	VE2BTW	1
VB2QCJ	22	WA5VJB	1
(1FO	20		
N2BFJ	20		

Multiplier	Leaders	- Multiopera	ator
50 MHz		432 MHz	
WB4NMA	109	W2SZ/1	63
NØLL	108	W1VD	53
WØUC/9	85	WB4NMA	50
W1VD	83 79	N4DT	49
N4DT W8VP	19	W1TKZ W8VP	45 41
KØTLM	69 67	W3SJI	40
W2SZ/1	65	KSYTL	37
K3YTL	62	K1WHS	32
		WB2RVX	31
144 MHz		K1TR	30
WB4NMA	89	WB3LJK	30
W2SZ/1	87	1296 MHz	
W1VD	86		
W8VP W1TKZ	83 80	W2SZ/1 W1TKZ	28 17
N4DT	77	KSYTL	17
KSYTL	75	WB2RVX	15
W3SJI	68	W3SJI	15 12
WB2RVX	64	K1WHS	12
K9MRI	61	K2BWR	12
WB3LJK	58	N4DT	12
NØLL VE3GRC	58 58	W1VD WB4NMA	11
	58		11
220 MHz		2304 MHz	
W1VD	40	W2SZ/1	8 2
W2SZ/1	40	K5GW	2
W8VP K3YTL	38	10 GHz	
WITKZ	37 33		_
WB4NMA	22	W2SZ/1	7 2 2 1
W3SJI	29	W1TKZ W1VD	2
WB2RVX	28	KIWHS	1
N4DT	29 28 26 25	NØLL	i
WB3LJK	25	WD6AUP/7	1
K1WHS W3GNR	25 21		
WA2SNA	21		
K1TR	20		

Surface weather map for the evening of September 8 shows the large high-pressure system responsible for providing extended tropo contacts along the U.S. East Coast. Hurricane Diana is the low-pressure center off Florida. Typical radio paths are shown by broken lines. (*tnx W3EP*)

Top Single-Band Scores

50 MHz		432 MHz	
WB5DSH	12,798	K1FO	16,984
W5FF	12,495	WA8TTS/1	11,176
K1TOL	10,904	N8FCJ	7872
N2CEI	9751	W1XX/2	7696
WB5KTC	9709	K3LDD	7030
WATOUB	8586	(N3DQZ)	6292
KAØMQA	8190	WB9MSV	4736
WA5VJB	7564	K1PXE	4698
WA6ERB/0	6612		4090
WBØZKG	6528	WA2FGK	4400
		(K2LNS)	4480
WB4NMA*	30,193	W3ZZ	4002
W1VD*	29,465	WB9SNR	3894
NØLL*	23,652	W2SZ/1*	33,768
A A A A A A A A A		W1VD*	22,896
144 MHz		WB4NMA*	13,100
N8FCJ	31,126	W1TKZ*	12,150
K2LWR	23,014		
WA10UB	22,620	1296 MHz	
W1XX/2	19,152	NF2P	1968
WB2QOQ	14,880	K8WW	960
WA2OMY/3	14,190	WA3JUF	858
WA3FYJ	14,190 12,768	WAIJOF	828
WA3DNM	12,516	K1PXE	750
WBULC	12,338	W1JR	726
K3ZO	12,173	K1LPS	702
W2SZ/1*	63.336	K1FO	690
WIVD	56,932	WB2WIK	459
WITKZ*	47.040	N3CX	459
WB4NMA*	46,992	W2SZ/1*	5292
	40,882	W1TKZ*	1938
220 MHz		WB2RVX*	1800
	4400	TULINA	1000
W3GPY	4480		
K1FO	2400		
N2EOC	2304		
N2BFJ	2080		
W1EJ	1908		
WA2OMY/3	1836		
WB2WIK	1824		
WA2TEO	1664		
КЗНР	1560		
WB1QCJ	1540		
K3YTL*	10,804		
W1VD*	9040		
W2SZ/1*	8960		
*denotes mu	Itioperato	r stations	

the rest of the country most of the time, the overall increased activity saw 14 of the 16 divisional single-op records fall, while 12 multi-op standards bit the dust.

Rare square department: In what may be a regular feature in the future, we have two nominations. N9KC operated from a hilltop on Wellseley Island in Lake Ontario in extreme southeast FN-14. Meanwhile, NR6E/6 had to remain alert for bears in the Yosemite National Park area in sparsely populated DM-07. What rare square can you activate?

Since this one is now a "wrap," don't forget the next VHF operating extravaganza: The VHF

N4DT Vs. Murphy and the "Roan Roar"

All week long, as we tried to tie up loose ends prior to the September, 1984 VHF QSO Party, Don, WQ4V, had been pumping me up with magnificent propagation reports for the weekend. As a participant and not an enthusiast on VHF/UHF, little did I know how prophetic he was!

Friday, September 7, was spent erecting towers, mounting antennas, putting up tents and readying for the contest. A gorgeous day left us all with sunburns. There was no pain, though excitement may have been the anesthetic.

Roan Mountain is a series of three bald peaks known as Roan Peak, Roan Bluff and Cloudland. The three peaks straddle the North Carolina/Tennessee State Line. Our operation position was a grassy bald on Cloudland near the Appalachian Trail just inside North Carolina. Cloudland is named after a hotel that was on the mountain and burned down in the early 1900s. It is aptly named because it seems that dusk is always accompanied by a lowering of the clouds until the peak is covered. The name Roan Mountain is derived from the masses of rhododendron that bloom there and give the mountain a brilliant roan color. The operating site, about 6300 feet above sea level, provided a clear shot in all directions.

Because there is no commercial power on the mountain and because all gasoline for generators must be carried up, we knocked off at dusk Friday, although we were not through. Our "advance party" — N4DT, WQ4V, AJ4N, KB4DVN and I then spent the evening alternating between talk-in for the rest of the group and going down the mountain to a Tennessee State Park for much-needed showers.

Talk-in was necessary because of the descended clouds. Turns were impossible to find without a guiding hand. Friday evening brought all but one of the group up the montain. WB4CTW, WD4GYN and KJ4X made it up as operators. In addition, my XYL, Donna, and our sons came up. Although Donna is a ham (N4HIN), she elected not to operate with us. She volunteered (I know better than to ask) to serve as breakfast cook, and the boys (I can ask them) helped out as runners between stations for schedules, etc.

Saturday morning, we put the last of the antennas up. While some of us were getting them up, others were hooking up stations and testing. First was a report from 2 meters of 1- and 2-land "booming in." Then one of the guys who had been trying to get back home on 2-meter FM from his car reported a QSO with Indiana. The excitement mounted! We hurried.

As 1800Z rolled up, I sat down at the 432-MHz position. I was a little downhearted because our new Henry 2004A amplifier had falled during testing, but hoped somehow to make up for it. Was I in for a shock! The conditions were tremendous! Not only did we not miss the amp, we worked more than we hoped for without it. At no time during the test, regardless of beam direction, could I not hear 1-land!

Slightly delayed by priorities, we were about an hour or two late getting on 1296. Joe at W2SZ/1 had told me to "get on with 100 mW of exciter and a dipole." He said the band was *that* good. When we got on, it was with 2 W to a 4 bay of helixes up almost 30 feet. When the guys on 1296 called "CQ", their first call was answered by W1TKZ in Vermont. I think the fellows in Vermont could have heard the resulting celebration without radios!

Saturday evening brought with it the winds of Hurricane Diana. What we affectionately called the Roan Roar blew in at dark. Winds gusted at gale force and may have peaked higher. Although I was somewhat protected inside the 432 tent, I knew it was becoming critical. The tent was inflating and deflating, moaning and groaning at the seams, and the wind was howling. Suddenly, Frank, K4ADI, called from the 6-meter tent. He yelled for help and I took off. His tent was going fast. The aluminum frame had snapped and its jagged edge had torn the tent. I helped him get a grip on the tent to hold it up until I could get more help.

Danny, N4DT, was operating 2 meters from a van, our most secure station. I got him out and we yelled for the others. The wind was so loud that nothing else could be heard. Danny decided to collapse the 6-meter tent and secure it as a cover for the equipment. To prevent the inevitable, the 432 tent was also collapsed and held down with heavy rocks.

While we were protecting the equipment in the 432 tent, the 2-meter tower came down in a heap. Although secured in six places, two guys (1/4-in nylon/cotton) snapped. The four boomers were a mess. The H-frame snapped like balsa. Since we had seen what the wind could do, we decided to add guys to the other towers. The 432 tower was already leaning at about 30 degrees when we caught it! Danny decided to shut down 220 and 1296 to protect against injury should one of the towers fall onto the tent. Ralph, WB4CTW, and Steve, WD4GYN, hooked onto the Ringo Ranger from Ralph's car to work some FM. Ralph is also equipped for 6-meter mobile, and they made a few QSOs with his whip. The rest of the group went to bed to get some sleep — maybe the wind would end by morning.

While the wind did let up, it was far from over on Sunday morning. We were able to salvage one boomer and get back on 2-meter SSB/CW. The 432 tent was reconstructed and examination showed no serious antenna damage. Two of the four 16-element Yagis were skewed on the H-frame. A few taps with a long pole and we were back on the air.

The 6-meter tent required a lot of "engineering" to get it back up, since the frame had broken. Steve, AJ4N, led that project to completion. The tent was a real sight! The 220 and 1296 tent and antennas made it fine. That location is slightly shielded by trees and may be the site for all antennas the next time we go up there.

While Murphy ended up with a pretty good score, we beat him. We all had a tremendous time in spite of the problems. We worked half way to VUCC on 432 alone. We made a QSO into Maine (K1WHS) on 1296 that may be an "overland" record and certainly ranks high on the list. We chit-chatted for long periods with W2SZ1 on 1296. We enjoyed the beauty of the mountain instead of being saddened by the problems it caused.

Final Score: Murphy - a lot; N4DT - much, much more! - G. E. Grooms, NE4G

Sweepstakes, January 12-13. See December QST for the significant rules changes. September certificates will be in the mail around February 15. — W1XX

SOAPBOX

This was my first attempt at contesting at home, and I was very surprised at the results using my modest sta-

tion. My operating time was cut very short by work and children's activities, so I decided to concentrate on grid squares. 144 MHz was great all through the contest and even 50 MHz opened once. Since many ops now hunt grids, I think it drew many to the event who would not have any interest otherwise (N&BKL). I worked one grid square further on 432 than on 2 meters — using 1/8 of the power and 1/8 of antennas. This was approx. 1200 mi vs. 1100 mi (VE1UT). I worked five new states and 11 new grids during the opening. I heard Georgia



N4DT and WQ4V survey damage to the four boomers on Sunday morning.

calling me, but I couldn't make it. Thank you, sta-tionary high-pressure area and Hurricane Diana (VE1AHM). I heard K4MSK from Florida, but couldn't get through the pileup (VE1APA). It was nice to work five grid squares on 432 with half a watt and five elements (VE2BTW). We had a super time work-ing from Maryland to Los Angeles (WØIA). The gods of promeastion much hous hear localing down on this of propagation must have been looking down on this contest. There hadn't been a decent opening for at least a month, and on Saturday night, it was a beaut. The a month, and on Saturday night, it was a beaut. The South was coming in like gangbusters (WBØGPM). I had some nice surprises — KC2TX in Maine to KB9S in Wisconsin on a "dead" band (W3HDH). I could sum up the contest in one word — frustrating! This huge tropo opening was too much. Even VE2DFO at the eastern edge of my FN-25 grid was well in it, but all I got out of it was an enhancement and with all all I got out of it was an enhancement. And with all the DX rolling in, those NJ stations weren't interested in a VE3 (VE3FN). Glad to have been at least a little part of this fabulous gift of nature (KIDS). This was my 89th VHF contest, not counting the UHF contests in August. The activity is still fascinating with new ex-periences in each event (W1EJ/W1EUJ). With band conditions as the start with conditions as they were, we would have traded all our beer for 1 W on 1296 MHz. Boy, did we miss the boat (WA2FXB)! We were amazed to work so far with so little, especially when we worked W252/1 and W1VD with only the barefoot 3-W rig on 432 MHz. The 432 quad was mounted at the center of the 144-MHz quad-quad array. We found amazingly little interaction, desensing or interference even with the harmonic reladescribing of the frequencies in use (KSCQA). AFIT operated 1296 and we had to tie rocks to each of his legs after his N4DT QSO so that he wouldn't float away (K1WHS). We had double-hop E skip on 6 meters, which is quite rare this time of year. Grids DM-26 and CM-95 were worked for our first time ever on terrestrial propagation. K6HXW's QTH is located close to the Pacific Ocean, on a very obstructed mountainous path ver California at its widest point (K7ICW). On 2 meters, instead of "where's the beef?" ... Where was Minnesota? I worked over, under, around and through, but no MN. It seems like the locals hibernated on 6-meters (WA9BTY). Obviously, the Midwest was the wrong place to be. Not only was the 2-meter band open up and down the East Coast, but we had difficulty working stations in the Southeast because their anten-nas were pointed northeast. There is no justice (K9AKS). There should be a limit on power. Many sta-tions were running 300-plus watts when not required. I had to limit my operation to periods when a 330-W station nearby was not operating (KA9QIK). Condi-tions were quite average on 2 meters. We here in the Midwest had no idea of the Great Opening along the East Coast. Of course, perhaps you fellows did not

Top Ten

Tob Leu			
Single Operator		Multiope	rator
Call	Score	Call	Score
N8FCJ	99,528	W2SZ/1	660,951
WA2OMY/3	85,386	W1VD	487.416
W1XX/2	83.640	WB4NMA	351,237
WA2FGK			
(K2LNS,opr)	71,272	W1TKZ	327,864
WA1OUB	60,180	K3YTL	308,256
WA2TEO	57,673	N4DT	271,431
WB2WIK	53,872	WB2RVX	228,732
K1PXE	50,730	W3SJI	201,292
K3HP	50,255	W8VP	192,720
W3IP	47,700	K1WHS	135.468





Number one single-operator station, N8FCJ.

W1JR WB1FKF K1KG KB1KM

W1GXT W1QXX

WATYKN

KA1DHC

KA1DHC K1SRZ K1TQ W4XP K1VZI W1FM KA1AMF K1DAT K5MA/1 W1AX WA1VCI

WA1VCU KA1FVG

Maine

Division Leaders

Single Operator

Single O	perator		Multiop	erator
Call	Score	Division	Call	Score
WA2OMY/3* VE3ASO* WB9MSV W5RCI* W5RCI* W5RCI* W1XX/2* WA2NOK* WA10UB* W6RXQ*	Score 85,386 40,120 35,329 3320 16,896 37,620 83,640 35,712 60,180 7667 12,936	Division Atlantic Canadian Central Dakota Delta Great Lakes Hudson Midwest New England Northwestern Pacific	K3YTL* VE3LNX* K9MRI* M5DL W8VP* W2DMC* NØLL* W2SZ/1* NF7X* WB6KBZ*	308,256 80,910 51,660 32,766 192,720 85,215 84,600 660,951 12,300 37,051
N8FCJ* W0ETT* WA4NJP* K6LMN/7* WA5VJB*	99,528 17,388 32,125 5562 36,290	Roanoke Rocky Mountain Southeastern Southwestern West Gulf	WB4NMA* WØIA* WB4VHF N6ENU K5GW*	351,237 12,444 396 27,630 39,325

*denotes new all-time Division record

Solo Mountain-Top Operation

Three months planning! Two weeks packing. Destination: Ellebers Knob, West Virginia (FM08), 4 miles east of the home QTH, but 30 miles by road.

- Fri. 0800L: Leave home QTH, 90-minute drive, last 9 miles at 5 mi/h or less. 2200L: All antennas up.
- Sat. 0130L: All radios tested. Sleep. 0500L: Wake up, too excited to sleep.
- 1400L: Contest starts. Sun. 0032L: 2-meter amplifier blows up.
- 0430L: Sleep.
- 0530L: Work on 2-meter amp.
- 0830L: Back on the air with amp.
- 2300L: Shut-down.
- Mon. 0240L: Head home.
- 0440L: Pleasant dreams.
- 0915L: Unpack (takes all day).

Analysis: Some say the mountain-top stations have it made. Was it worth it? You bet! - N8FCJ, top Single-op score

know we had an hour and a half of E skip on 6 meters to Kansas and Colorado! What a nice little treat (W3EP/9). Could you please provide a better tropo opening on 144 and 70 cm? Also, throw in a few hours of aurora conditions so rotators can rest for a while (W9YCV). Grids are great, but I hope you realize that with more multipliers available, the rich (mountainwith more multipliers available, the rich (mountain-toppers) get much richer and the poor get only slightly better off (KIFO). I think Murphy forgot to put Sept. 8, 9 and 10 on his calendar (WA1YKN). W1VD was so loud on 2 meters, I could copy him in my basement, about 70 miles away, without an antenna. That's RF (WA3EEC). Scatter, aurora, tropo, E skip and a 20 dB over 9 signal from W2SZ/1 into Michigan. What else could one ask for in a VHF contest (WA8FTA)? Bouquet to the fellows who were merutisters? Bouquets to the fellows who went mountaintopping and gave out some Oregon and Washington grid squares usually inhabited only by jackrabbits (K7HSJ).

FEEDBACK

Please note the following corrections to the results of the 1983 ARRL September VHF QSO Party, starting on page 81 of January 1984 QST. The logs of KA2BTD and N2BMN were omitted from the results. Their score lines should read: KA2BTD 13,850-262-50-ABCE and N2BMN 4530-138-30-ABCE, both of Northern New Jersey. The single-operator Division Leader for the Northwest Division should have been K7KOT with 5070 points instead of K7HRJ with 1995 points.

SCORES

Scores are listed by ARRL Section. Within each Section, single-operator, multiband scores are listed first, then single-operator, single-band scores starting with the lowest frequency, and then multioperator scores. From left to right, each line lists: call, score, QSOs, multipliers and bands operated (A – 50 MHz; B – 144 MHz; C – 220 MHz; D – 432 MHz; E – 1296 MHz; F – 2.3 GHz; G – 3.14 GHz; H – 5.7 GHz; I – 10 GHz; J – 24 GHz). Among the single-operator stations, the overall Section winners and single-band winners are indicated by bold-faced type for the call sign of the Section winner and for the one letter(s) denoting the bands won. For example, in Connecticut, K1PXE is the overall Section winner as well as the single-band leader on 1296 MHz. K1FO is the single-band leader on 220 and 432 MHz, while W1QK took 50 MHz and K1GX won on 144 MHz.

W/VE

Connecticut

1

50,730-357-95-ABCDE 42,550-278-74-CDE 39,994-378-95-ABCD 22,400-294-70-ABCDE 18,639-321-55-ABCD 4268-119-32-BD 778-64-14-AB 330-30-11-A 10,148-236-43-B 4710-157-30-B 47,746-1378-276-ABCDEJJ K1PXE K1FO AA27/1 AA2Z/1 W1QK W1FAJ AB1U N1ABY WA1CVN K1GX K1DIH W1VD (+ WIVD (

Eastern Massachusetts

WA1JOF 22.425- 212- 69-BCDE

76 05%

21,329-156-77-ABCDEF 19,831-196-67-ABCDE 19,875-234-69-ABCDE 12,208-183-56-ABD 11,342-147-53-BCDE 11,342-147-53-BCDE 11,343-125-59-ABCD 9894-159-51-BD 9897-191-47-ABCDE 7625-125-41-ABCD 7097-119-47-ABCD 4788-104-36-ABCD 3250-90-25-ABCD 972-42-18-ABD 2099-23-13-AB 1020-60-17-A 2184-91-24-B 1349-71-19-B 1349-71-19-B K1BZ (+ KA1OJ, N1ATN) 6450- 109- 43-BCDE **New Hampshire** 60,180-510-118-AB 32,310-246-90-ABCDE 13,662-215-54-ABCD 2201-66-31-BD 1846-57-28-ABCD 1752-73-24-AB 2068-87-24-B WA1OUB W1EJ AC1J W1JSM KB1MZ KA1CDZ WIIUN WILDN 2006-07-24-5 KITR (+ KIBA, K3WM, NIs AFO, BYC, WAIs PBU, QWF, VFJ) 117,936-642-144-ABCDE 2 **Rhode Island** K1DS K9SB/1 1794-78-23-B 1518-66-23-B KATFVG 1349 71-19-B WATAYS (+ AJTE, KATYQ, KTIO, NIBNC, WA2s JHR, NKL) 42,594 - 391- 83-ABD W1XM (N2ME, W1XG, oprs.) 21,125- 211- 65-BCDE Vermont K1LPS 33,820 236 95-ABCDE WA120JK 406 34 12-A WA1Z0J 2025 75 27-B WA8TTS/I 11,176 127 44-D W1TKZ (K15 TK, UR, NICPE, N2AWG, W1EGE, W1GCJ, WA15 YOJ, ZLO, W4EGE, W1GCJ, WA15 YOJ, ZLO, W4EGE, W1GCJ, WA15 YOJ, ZLO, W4EGE, M1GCJ, W45 ABCDEI 327,864-1135-228-ABCDEI WA1AYT 4212-117-36-AB K1TOL 10,904-188-58-A W1PLX 2275-103-25-B K1WHS (+AF1T, K1MNS, KA1JLK, W1AIM, WA1NIE, WB1FGW) 135,468-651-159-ABCDEI Western Massachusetts

K1ISW 15.399- 218- 59-ABCD N1PF 1449-51-23-ABD WA3EEC 1300-65-20-AB WA1U2Z 3416-122-28-B KIJG 140-14-10-B WB12TI (K1a DH, RQ, AB2), NF2B, K2MM, W2ARQ, KA2OHF, WA1UGE, K2MM, W2ARQ, KA2OHF, WA2B AAU, SPL, ZPQ, WB2s JLR, KMY, PKO, K4I, WABISA, DORS) AK4L, WA8USA, oprs.) 660,951-1534-309-ABCDEFGHIJ W1NY (AC1T, KA1KPH, W1KK, oprs.) 29,346- 360- 73-ABD Eastern New York

W1XX/2	83,640- 557-123-ABCD	
WA2TEO	57,673- 437-107-ABCDEF	
W2AWX	6762-114-46-ABCD	
N2BJ	5678- 132- 34-BCD	
K2EK	4530- 151- 30-A	
KA2JUV	3960- 120- 33-B	
N9KC/2	2044- 73- 28-B	
WB2TUT	910- 65- 14-B	
NB2R	340- 34- 10-B	
	196-14-7-C	
W2DMC (K	28 MME, SK, KA2JCX, N28 BJ	,
DLL, DV.	(, WA2s EHI, MEE, WA8MAZ,	
WB2s IY	G, NEC, oprs.)	
	85,215- 576-115-ABCDE	
KA2Q (+ V	2YJO, WA2NKP)	
	602- 39- 14-BD	

New York City & Long Island

N2BFJ	41,650-	316-	98-ABCD
W2WW	11,500	164-	50-BCD
WA2SLY	5805-	135-	43-AB
WA2EUS	912-	46-	16-BD
KE2N	5285-	151-	35-B
KA2BPP	1449-	69-	21-B
WB2PWR (+ opr.)		
	7320-	183-	40-AB

Northern New Jersey

WA2FGK (K	21 NS 0	nr)		
WAZFUK (N	71.272		18-AB	CDE
WB2WIK	53.872			
KA2BTD	44,264	366-	88-AB	CDE
N2CEI	27,370-	313-	85-AB	CD
WB2WIH	14,364	189-	59-AB	CD
KT2B	13,821-	184-	51-BC	DE
WA2UDT			43-AB	
N2EOC K4BNC	5880-	98-	30-CD	
K4BNC	1472-	64-	23-AB	
WB2MBM	96-	12-	8-A	
WB2QOQ	14,880-	310-	48-B	
KA2IVS	2457-	117-	21-B	
WA2ALM				
WB2BPY				
N3AHF				
WB2MHE				
WA2SNA (
AAZ, BTJ		12WC	E, WA	2JSW,
WB2RFB				
	75,816-	4/6-	117-AB	CDE

 W2EIF
 25,128-234-72-ABCDE

 KAZJKI
 24,492-222-78-ABCDE

 W2HRW
 20,864-286-64-ABD

 WB2YEH
 15,540-186-60-ABCDE

 KS2T
 6346-110-38-ACD

 KS3YS
 8910-84-34-ABCDE

 NC2V
 4090-116-35-8

 KAZMV
 484-44-11-8

 NF2P
 1868-41-16-E

 WB2XEAT)
 484-471
 Alabama WB4NJG WA4CQG WB4GFO WA4VUG WB2AR) 228,732- 871-196-ABCDE K2BWR (+ K22RJ) 40,875- 245-109-ABCDE WB4VHF Western New York WS4F W4ISS WOIP/2 40 252- 347-116-ABCDE W9IP/2 K2GK WA2SZY NA2O KC2JO WB2JFL 40,252 347-116-ABCDE 29,016 221 93-ABCDE 5292 102 42-BD 2720 67 32-BD 2074 54 34-ABD 1275 51 25-AB 972 36 27-AB 924 44 21-A W4VHH WB2MKN WB2WBT 23,014- 311- 74-B K2LWR N2BKS 3900- 100- 39-B 3900-100-39-8 3074-106-29-8 2541-77-33-8 2088-72-29-8 1920-64-30-8 578-34-17-8 56-8-7-8 1540-35-22-C 830-31-15-C 756-27-14-0 K2JIQ N4KCM WR2ODH N4JIY WB20DF WB2CBU WB2NJD K2KWK KU2A WB2QCJ WB2IEY K2OR 756- 27- 14-D N2WK (+ KA2MRP, KX2J, WA2s LAQ, MOP) N2WK (+ KA2MHP, KX2J, WA2S LAU 27,916 - 230- 99-ABCD WB2ELB (+ KA1YE) 13,984- 162- 76-ABD K2IQ (NA2A, WB2SZY, oprs.) 1380- 60- 23-B Delaware K4CHE/3 K3SXA KA3IJO 18,200- 231- 65-ABCD 1950- 64- 25-BD 588- 42- 14-B AC3T (+ KA3B, N3DIP) 21,373- 284- 67-ABC W4ODW K3QBD (K3ONO, KA3KHZ, KC3AM, KQ5G, K8MP, W3s LQE, URR, WA3s HDS, K8MP, W35 Land, TNP, oprs.) 3611- 157- 23-B W4ZGS W4HJW Eastern Pennsylvania
 Easterni Formsyntemina

 WA20MY/3
 85,386-499-133.ABCDE

 KSHP
 50,255-398-69ABCDE

 WBSLNZ
 19,255-398-65ABCDE

 WBSLNZ
 19,435-243-65ABD

 KA3HTY
 11,308-200-44-BCD

 N3BHS
 10,450-174-5CA3-65ABD

 KA3HTY
 11,308-200-44-BCD

 N3BHS
 10,450-174-5CA3-6CD

 KA3HTY
 11,308-200-44-BCD

 W3CL
 6556-663-44-ACDE

 W3CL
 6518-123-36ABCD

 WA3EYD
 1102-48-15A-BC

 WA3EYD
 1102-48-15ABC

 AA3W
 840-23-220-BC

 W33DNM
 12,518-288-42-8

 K3WK
 6306-184-37-8

 AK3M
 2970-90-23-8
 K4KAE N4EJW K3IWK AK3M 2070- 90- 23-B 209- 19- 11-B 4480- 80- 28-C 2070-N3CDI W3GP W3GPY 4460 80-28-C K3LDD (N3D02, opr.) 6292-121-26-D WA3JUF 856-26-11-E K3TL (K3MKZ, KA3EEO, N38 AVZ, CXB, DAP, WA38 JWP, JWV, NVS, YON, WB3 CA1, FAA, FKQ, opr.) 306,256-1031-228-ABCDE W3SJI (K3YD, KF3Y, K03P, K03R, N38 AIN, DPN, JO, WB3EGD, opr.) 201,282-760-166-ABCDE W3SLP (M36 GPN, JUZ, UH, WA3CUQ, opr.) 51,834-373-106-ABCD W3IY/4 K4FTO KX4V 51,834-373-106-ABCE WB3FNZ (+ KB3XB) 8970-195-46-B KM3E (K3s EEL, SQO, N3COT, WB3FET, oprs.) 6968-123-52-ABD N4KEQ AB4L Maryland & D.C. 5 47,700-325-106-ABCDE 38,897-321-97-ABCD 20,904-211-78-ABCD 19,276-193-79-ABCD 8316-165-44-BCD WSIP W3ZZ W3XO K3AKR
 WASUJE
 8316-165-44-BCD

 N3API
 1215-45-27-AB

 W3MSN
 902-38-22-ABD

 W3IFM
 1976-76-26-AF

 K3ZO
 12,173-259-47-B

 K3TC
 8322-203-41-B

 WB3BGU
 1474-67-22-B

 KA3COHM
 420-30-14-B

 WB3LJK (+K3ONW)
 60,855-373-126-ABCD

 W3PGA (K3PHH, KA3GWO, KB3EVL, KB3EL, KO3K, W3JDF, WB3a
 AXP, BIT oprs.)
 WASHIE AXP, BIT oprs.) 4158- 99- 42-AB

WA2FXB (+ N2s AAM, DWA, DXP, WA1PDK, WA2s CRF, GEZ, PJZ, RYC, VKH, WB2s KBI, NTP, QBT) 68,732 496-117-ABCD N2WW (+ N2s CLS, ERH, EWY, WA3WUD) 30,360 345-88-AB W2LI (KA2IRG, KC2RX, W2DQA, WB27WL 10 cm 2

WB2ZMU, oprs.) 3950- 158- 25-B

Southern New Jersev

3

Western Pennsylvania

KR3C (+ WA3DBW) 2960- 55- 40-AD

+ WA4AUX) 396

46.138- 337-118-ABD

WASHVJ 45,138 337-118-ABD W3HDH 1305 45-28-A W3KJM 459-27-17-A KB3L 551-29-19-B K1PLR 396-33-12-B W3GNR (KADWR, WA3JBV oprs.) 6250-90-50-AC W3KWH (W3KH, WB3EML, WH3VAW oprs.) 6200-09-65-AC

6206 96- 58-ABD

12,040- 140- 86-AB 3655- 71- 43-BC 2720- 68- 40-B 54- 9- 6-B

WA3FYJ

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Mississippi

22- 18-A Georgia 32,125-221-125-ABCE 7684 85-68-ABCDE 3024 51-42-BD 1800-36-30-BDE 1160-40-29-A WA4NJP WB4WXE AK4T WB4RUA 25- 5- 5-A 130- 13- 10-B Kentucky KC4EG WB4NXY 25,296- 195-102-ABCD 13,122- 138- 81-ABD 5088- 96- 53-AB 108- 12- 9-B North Carolina K4CAW 21,409-212-79-BD N2CJP 1755-62-27-ABD WD40DS 2282-58-39-A WB4NMA (K4MSK, N3AHI, N4HSM, NT4T, WB4SLM, WD49 IIS, JQV, MBK oprs.) 351,237- 999-291-ABCDE N4D (+ AJAN, K4AD), K640VN, KJAX, Ned, WBACTW, WDAGYN, WQ4V) 271,431 912-243-ABCDE W4BFB (K4TP, KAWYC, K64YY, KFAND, K545, KU4V, N43 JEV, JTU, SJE, W4B (K1, UNZ, VCC, WB4PCS, oprs.) 19,840 - 203-80-ABD W4CQ (K4COG, WAATIJ, WB4s ETF, MCI, WD4LGN oprs.) 6380-111-53-ABD **Northern Florida** 8379- 95- 63-ABCDE 912- 37- 24-ABD 777- 37- 21-AB WD4FAB 494 26 19 A South Carolina WA4LDU 2580- 51- 43-ABD 256- 16- 16-ABD Southern Florida 2176- 64- 34-AB 805- 35- 23-AB K1FJM/4 Tennessee 2457- 63- 39-AB 2331- 48- 37-BDF 1696- 47- 32-BF 1456- 52- 28-BDF WA4GBE N4MW W4HHK WA4HGN WD4DGF (+ N4VC) 16,896 155- 96-ABC Virginia 28,593. 235 81-ABCDE 26,675 226 97-ABCDE 25,578 225 98-ABD 22,338 256 73-ABD 12,033 191 83-AB 10,530 143 85-ABD 9400 142 59-ABCD 9900 150 48-AB 6528 119 48-ABD 832 32 25-AB 640 40 18-AB 3367 91 - 37-A 825 55 15-B 288 32 9-B K2UOP/4 K2UOP/4 WD4GXN K4HWG N4MM WA4MMP WA4SBC K4JSI W4DO KC4YN W4CKD KB4CMF 288-3186-32- 9-B 59- 27-D Arkansas 3690- 74- 45-BD 1170- 39- 30-AB 630- 30- 21-A 1440- 36- 20-D K5YY WB5JAR WD5AGO WAØVJF/5 N5DL (+ AD5M, KA5NTT, KD5WD, NI5A, WA5OOE, WD5s CAN, CAP) 32,766- 215-129-ABCD Louisiana WBSLBT 4002 87 46-ABCD W5EW 168 14 12-8 KB5PX (+ KS5M, N5AMA) 12,710 134 82-ABCD N5BHO (+ W5EW) 10,640 120 76-ABCD

Mississipp	i				0
	8,896- 1 3478-	34- 59-	96-ABC 47-ABC	DE DE	K W W
New Mexic					K K W
W5FF 1: KA5EBL KI3L/5 WB5TCO	3,617- 1 6798- 1 4950- 12-	53- 03- 90- 2-	89-AB 66-AB 55-A 2-D		w
Northern 1					U
WA5VJB 3 KE5EP 2 WB5KTC 2 K5IS 1 W5GG 1 K5DHU WB5KYK KY5N KFGW (+ KD5)		294- 212-	95-ABC 90-ABD	DEI	v
WB5KTC 2 K5IS 1	2,368- 2 9,467- 1	226- 164-1	96-ABD 03-ABC	Ð	۷
W5GG 1 K5DHU	4,198-2 5304-	229- 70-	62-BDE 52-ABD	E	N V
KY5N K5GW (+ KD5	490- iRO, W	35- 35- SETG	14-AB 14-AB	кυ.	2 2 5 2 2
WB5LUA)	9,325- 2				N
Okiahoma					٧
W5NZS 2 K5SW 2	3,100- 0,384-	175-1	10-ABC	DE	v
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K7CW AA5V WB5DSH 1 K5WE NR50	3132- 2,798- 1	69- 158-	36-BD 81-A		8
NR5O KI5P	805- 1560- 1440-	30- 52- 48-	23-A 30-B 30-B		I
Southern [*]					v
		118.	AQ.AR		r V
WA5IYX N5GQB	8142- 1014- 945- 77-	39- 45-	26-A 21-B		1
N5EAR W5UWB (+W	ADIDE				(
	1474-	49-	22-ABC	E	
6 East Bay					i
East Bay WA6LHD	1872.	70.	24-RC		-
KN5S	1872- 279-	31-	9-8		Ň
Los Angel WB6DTA	85 3200-	•••		DE	i
Orange	3200-	89-	32-ABC	JE	1
	1058-	31-	23-ABC	D	
K6IBY WB9AJZ/6 K6PHE N6ENU (+W/	360- 297-	28- 27-	12-80 11-8 (L, WB		1
2	7,630-	264-	90-ABC	D	,
Santa Bar					ļ
WD6BCN KA6VRW K6MEP (K6VI	4/6- 7- MN KH	28- 7- 6N	17-AB 1-B		
WA68 DJS.	FPX o 2,387-	prs.)		D	
Santa Cla	ra Val	ley			
KARING	2,936- 420-	42.	10-AR		
K6GSS KK6C WB6KBZ (+)	4600- 440-	230- 44-	20-B 10-B		
WB6KBZ (+)	KA6IRT, 37,051-	416-	67-AB	6AZP) CDE	
San Diego)				
WASTBO NGDG (+WA	224- 5BNH, 2835-	32- WD6 29-	7- B IFHS) 21-BC	D	
San Franc	cisco				
WASLLY			15-AB	D	
San Joaq			•	DE	
NR6E WA6SLF W6DPD	3000- 105- 80-	100-12-	25-AB 7-BC 8-AB	DE	
Sacramer	nto Va	lley	,		
W6YKM (KE	BNS, KI 14,500-	6G) 237	′oprs.) 50-AB	CDE	
7					
Arizona					
K6LMN/7 K7NN	5562- 1650-	97 51	- 54-AB - 30-AB - 10-AB	CD	
N7BUP	240- D7DR.	24 W7L	- 10-AE HA, WE	TNSN)	
W7DTL (+ K WA7JTM (+	N7AM/	N)			
idaho	5760-	128	- 45-AE	1	
WB7NEZ	126-	21	- 6-AB	C	
N7AUV Nevada	9-	3	- 3-B		
K7ICW	1638-		- 41-AE	1	
KC7QY	408-		- 17-AE		

Oregon	
K7HSJ W7UDM WA7IQH W7JXU KØVIZ	3192- 94- 24-ABCDE 1026- 54- 19-ABCD 60- 8- 6-ABD 198- 18- 11-A 90- 15- 6-B
W7SAA (KA N7DOC, V	7QQU, KB7CW, KD7WA, VA7ZAJ oprs.) 4810- 107- 37-ABCD
Utah	
WD6AUP/7 (+ K6PVS, WA7JUO) 3388- 94- 28-ABDEI
Washing	ton
WB7UUP W7ZSL	7667- 145- 41-ABCDE 360- 33- 10-ABC 153- 15- 9-ABCD 493- 29- 17-A
W7ERH W7KQU W7IDZ	153- 15- 9-ABCD 493- 29- 17-A 60- 10- 6-A
N7FXQ NF7X (+K7	60- 10- 6-A 378- 54- 7-B ND)
WB7PEK (+	12,300-208-50-ABCDE KA7ICT) 3564-83-33-ABCDE
Wyoming	ı
WA7KYM 8	216- 18- 8-BCD
o Michigar	1
WASFTA WBCAP	16,974- 194- 82-ABD 3072- 96- 32-BD
K8LZF W8QOI	16,974- 194- 82-ABD 3072- 96- 32-BD 104- 8- 8-ABCDE 270- 18- 15-A 6192- 144- 43-B
N8CKH N8DEJ	6192- 144- 43-8 6106- 142- 43-8
Ohio	07 000 004 110 ABOD
K8DIO WD8CTX	37,620 304-110-ABCD 18,105 159 85-BCD 10,920 167 60-ABD 940- 115 60-BDE 9310 85 49-DE 1856 53 29-BC 1232 52 22-ABCD 756 32 21-BD
K8TL K8WW	9840- 115- 60-BDE 9310- 85- 49-DE 1856- 53- 29-BC
N8CCC WB8TCZ	1232- 52- 22-ABCD 756- 32- 21-BD
N8CCC WB8TCZ WA8SVV N8BPB W8HBG	858-39-22-A 12-4-3-A 3060-90-34-B
W8NJR W8LCY W8VP (K8s	1232 - 52 - 22-8CD 756 - 32 - 21-8D 858 - 39 - 22-A 12 - 4 - 3-A 3060 - 90 - 34-B 2555 - 73 - 35-B 180 - 16 - 10-B AL, 10X, N88 BOZ, EKA, FXL, 98PR, WA8FHF, WB8s 8 WB9YC2 - WH8KP Jong 1
W5UA, V DQE, ER	D, 110010E, 1100101 0p10.)
K8CQA (+	192,720- 648-240-ABCDE N8FV, WB8s JAY, TEI) 15,222- 169- 86-ABD
West Vi	rginia
NSFCJ WSLSC NSDKL	99,528- 542-156-ABD 5565- 82- 53-ABD 1462- 43- 34-AB 3520- 80- 44-B
9	
Illinois	
WB9MSV WA9BTY	35,329 272-103-ABCD 12,222 191- 63-ABD 9487- 150- 53-ABCD 7097- 73- 47-CDE 6324- 93- 68-ABCD
WB9SNR W9UD	7097- 73- 47-CDE 6324- 93- 68-ABCD
WB9UWA AA9D KC9NV	
W9IVI KA9MGR	4636-118-38-BCD 2960-71-37-BD 2800-75-35-ABD 2035-55-37-A
K9AKS N5AFL/9 KB9QC	11,712- 192- 61-B 8940- 149- 60-B 8084- 188- 43-B
WD9FSA KA9LDS N9AQ	7701- 151- 51-B 6016- 128- 47-B 4329- 111- 39-B
N9DMT WD9ARK	8940-149-60-B 8064-188-43-B 7701-151-51-8 6016-128-47-B 4329-111-39-8 3096-86-38-8 2573-8-31-8 786-42-19-8 796-42-19-8 44-11-4-8
WB9GOJ KA9QIK KA9CLP	1820- 70- 26-B 798- 42- 19-B 44- 11- 4-B
Indiana	I
WB9NTL Kaøhpk/	17,876 191 82-ABCD 9 14,018 131 86-ABCD 13,050 174 75-A8 5123 96 47-BD 3239 79 41-ABD 2482 51 34-BD
W3EP/9 KA9OKH K9DZS	13,050- 174- 75-AB 5123- 98- 47-BD 3239- 79- 41-ABD
W8UT/9	
KASMRIA	51,660- 332-140-ABCD 9 (+ KF4ST) 24,206- 201- 98-ABCD
Wisco	
WA1IED W9YCV	7176- 115- 52-BCD 1612- 56- 26-BD
N9TD N9DWL KA9HKL	817- 36- 19-BD 588- 28- 21-A 3264- 96- 34-B
N9EEE K9GDF	7176-115-52-BCD 1612-56-28-BD 817-36-19-BD 568-28-21-A 3264-96-34-8 1472-64-23-8 12-4-3-8 12-4-3-8 12-4-3-8 (X ME-EVE GUY VESTER)
WØUC/9	38,086- 252-137-ABCD
K1TMM	(+ KA9RFR, KB9DZ, KC9BY, 5, N9KS) 9184- 164- 56-AB

	15,975-	187-	75-ABCD
9	11,550-	159-	66-ABD
	1022-	49-	14-BCD
	350-	27-	10-ABD
	17.388-	189-	92-A
	4606-	98-	47-A
			7-B
Øs	DXM. Q	PT. H	(RØU, W1)
	rs)	, .	
		175.	61-ABCD

KROU, WIXE

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Colorado

KAØMQA WA6ERB/

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	12,444- 175- 61-ABCD	
lowa		
WB472KG K4DAS WB495WD WB497WW K4CQ N9CIH WA4DCB N9EKT W47AP	19,303 199 97-AB 18,444 163 87-ABCD 12,716 161 68-BD 9576 131 57-BD 6760 83 60-ABD 2546 89 28-BC 756 36 21-AB 2868 76 38-B 1386 33 21-D	
Kansas		
WINDH WBOISW WAOCFQ KOFPC NOLL (+ KE WBODRL (+	3888- 81- 48-AB 1701- 55- 27-BD 1120- 40- 28-AB 805- 35- 23-B 80W, KFØM, KX8O, WAØPWE) 84,600- 423-200-ABCDEI NØUU, WAØFKJ) 29,832- 234-113-ABD)
Minneso	ta	
Wascqg KC8P W8PN	3320- 68- 40-ABD 459- 26- 17-ABD 1656- 72- 23-B	
Missouri		
WASNOK WSRWH WSRY WSJRP WSBPP KSGOB WBØIS KT5Y KSTLM (+1	7412 98- 68-ABD 1860- 48- 31-BD 1232- 46- 22-ABCD 943- 40- 23-BC 336- 24- 14-B	
KM10A (+W	A7ADK) 2812- 74- 38-AB	
Nebrask	8	
Køus KCøqr Wbødgf Kaøcri Wøems Wøkav Wbøgpm Wbøgpm Wbøyzn Wdøbqm	12,410-146-85-A8 8208-106-57-BCD 4578-86-42-BD 3666-78-47-A8 2060-59-32-BD 952-33-28-ABD 2135-61-35-A 345-23-15-B 80-8-5-D	
South D		
WESD	2849- 63- 37-BCDE	
VE		
Maritim	e — Newfoundland	
VE1UT VE1AHM VE1APA VE1ADS	16,992-227-59-8CD 3267-121-27-8 1430-65-22-8 184-23-8-8	
Quebec		
VE2FUT VE2BTW VE2DUB VE2FTR	6250-125-66-ABCDE 1003-49-17-ABDI 792-44-18-AB 448-28-16-AB	
Ontario		
VE3FN VE3CRU VE3CRU VE3FGN VE3CFM VE3DFM VE3OCX VE3BFM VE3OCX VE3BYO VE3AQG VE3AQG VE3ADDW VE3CIE VE3DJ VE3LNX (40,120 284-116-ABCDE 20,880 220 94-AB 11,056 156 57-BD 9786 130 66-ABCD 9720 100 54-BCDE 9295 118 65-ABCDE 8280 120 39-AB 8120 145 56-ABCDE 3589 81 37-BD 3094 91 34-B 2720 80 34-B 480 32 15-B 420 7 3-D 422 15-B 420 7 3-D 422 63-ABCDEF + VE38 AUI, MGU, OET) 14,176 - 222 63-ABCD	

Saskatchewan

Checklog AA2Z/M1

VE5LY 6- 5-A 30-

- Alberta 256-19- 8-BD
- VEGAFO **British Columbia**
- VE7ASI 1219- 40- 23-ABCD

January 1985

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