Results, 1983 ARRL September VHF QSO Party

By Edith Holsopple,* KA1KRQ

Target: 1340 feet. Obstacles: Wrong road; no road; this is a road? Where is the top? Climb hills, climb trees, search for the top. VE2DUB finds top. Where is the car? Where is VE2DUB? VE2DUB finds car. Down mountain, up road other side. This is a road? All out. Car clears rocks. Find trail. Test generator — good motor, no juice. Dissect generator — fan disintegrated, wires broken. Hold wires, start generator, solder wires using power from generator. Gets dark. Carry generator up, up, up. Stop. Base camp. Set up 144 MHz. Make eight contacts. Go to sleep 2 A.M. Rain, lightning, thunder, falling branches. Get up. Carry up 50, 220, 432, 10-GHz stations. Start generator. Listen, many signals. Call AFIT. Generator complains, generator balks, spits, seizes, stops forever . . . Take down station. Carry all down, down, down. Pack it up. Go home. Lesson learned: You must have light, reliable generator and a drive-up site. — VE2DUB (VE2CUA/2)

HFers charged on toward improvements and innovations in spite of varying circumstances that might have discouraged hams who are less inclined toward hard work and experimentation. This is the first time that grid squares replaced ARRL Sections in a September VHF QSO Party. Most reactions to the grid squares were enthusiastic. Turnout was excellent, with 436 entries received for this September 10-12 edition of the party. If satisfaction is the reward of hard work, Steve Harrison, KOØU, should be very happy. Here are some of the trials he went through just getting started.

I'd been pushing all the members of the Olathe, Kansas Amateur Radio Club for some time to get involved with VHF SSB/CW, but nobody really wanted to jump into something they didn't really know much about. Only one or two members had ever operated above 6 meters on SSB/CW. It just so happened, however, that AE5W/Ø needed to remove his HF beam and mentioned he would like to try the September QSO Party. So, we got together the 6-meter gear from a local estate and my own 2-meter stuff, and put up the antennas. Simple, right? Uh-uh.

stuff, and put up the antennas. Simple, right? Uh-uh. Getting that Classic 36 tribander down wasn't too hard. The broken rotator was easy to fix, too. But by Saturday morning, Darryl had a meeting elsewhere and we still didn't have any antennas back up. So, it was just myself all day Saturday, putting up the Boomer on one half of the Classic 36 boom (12-ft aluminum and exactly the right diameter for the top

tower bearing) at the top, then the Ringo Ranger on top of that, then the 7-element vertical FM Yagi, then trying to get the rotator back in place. I finally had to tie the other half of the Classic 36 boom onto the tower for use as a gin pole while reinstalling the rotor, and then, finally, came the 4-element 6-meter beam. Each antenna, the gin pole, the feed lines and the

Each antenna, the gin pole, the feed lines and the mixed-up rotor cable took an hour apiece. And I hadn't even gotten the 7/8-in Hardline unrolled from the 1½-foot coil that it came in. That took another 1½ hours and required cutting the coax from the boomer to length and inserting the type N connector on the coax. It was already dark, and lightning was flashing all over the horizon, but not in Olathe yet, and I couldn't see to solder the center pin on the coax. We had begun operating at about 5:30 P.M. or so, but didn't get it all together until around 9 P.M., when I finally slid down the tower for the last time — just when it began raining again.

Other VHFers had equally rocky times getting going. Rain, wind and even snow interfered with more than one station's activity. A weather front ran from the northeastern corner of New Mexico through western Kansas, into eastern Nebraska and through the middle of Wisconsin. Fifteen minutes of solid scatter was reported from Minnesota on 6 meters Sunday morning. Low propagation, as well as a heat inversion, conspired against West Coast operators. Some found 1296 to be sporadically wild, however. East Coast conditions were similarly mediocre. Those who gave



Members of Mecklenburg (Charlotte, North Carolina) Amateur Radio Society set up their station on Roan Mountain in Tennessee using W4BFB as their call. (K4TP photo)

up early were disappointed to discover that they had missed an exciting east-west tropo in the last two hours. Persistence was a hallmark of success in this round.

Leading the single-operator list this year is AA2Z with a very respectable score of 77,319. The outstanding multiop group W2SZ/1 scored an incredible 462,348. Good show!

Overall, the VHF outing was an enjoyable bash, and now we're looking forward to the January VHF Sweepstakes, to be held later this month. Complete rules appear in December 1983 QST. As usual, September certificates will be in the mail around January 15.

SOAPBOX

I think guys should spread out more instead of crowding the top 10 kHz of the CW band. We have lots of room, so let's use it (W1CNU). The band was really worked out on Sunday, although conditions were good. My apologies to everyone I couldn't hear on Sunday night, as I lost two different tuner-mounted GaAsFETs and was left with a 6-dB noise figure (K1FO). Grid-square multiplier system was a unique incentive to turn antennas more frequently. Pleasantly surprised at the level of VE station activity on all bands ... Thank goodness it didn't rain more than a half hour ... no fun operating from leaky tents on a mountaintop in the heavy rain (W1QI). Super contest! Great to be able to work so many 4-land stations (WA1YKN). Think grid squares was a great activity maker and definitely improved the test. However, it hurt to hear W2SZ working W8/9/ θ , and I could only hear W2s (W1JR). The contest was very good but closed in for the Philadelphia area in general. Other areas to the north enjoyed some good ducting to the west ... The grid-square system, generated by Europeans possibly because of the political setup, does not seem to apply

to this country. The contests have always been set up on the basis of ARRL Sections (as it should be with an ARRL-sponsored event) . . . there are many who still are trying to work states, and one likes to know what state he is working, instead of finding out after the contest is over (W2EIF). Good fun, but overdriven linears on mountains are unfair to others. I'm not talking about receiver overload here (W1IUN). I never thought we would ever make more contacts on 2 meters during the last two hours of a contest than during the first two but we did (W1TKZ). The big guns made it difficult for me to work the water pistols ... I couldn't even hear most of the stations others were working (WB1FSV). Band conditions were horrible, hard to make any contacts. Rig broke down, so had to borrow an IC551D. XYL and I really like using the grid-locator exchange (WA5YOU). The grid-square system is the way to go ... Propagation never really opened up here. ... I forecast a tremendous opening "tomorrow" night (WD5IKD). No stations heard from Colorado, Oklahoma, the Pacific Northwest or California ... I had to listen to the Sunday evening news to reassure myself that California really hadn't finally slid into the ocean (W5FF). I operated the entire contest off my solar-charged battery, except for the antenna rotators. I have a 30-W ARCO solar panel and two surplus 7-W panels feeding a 105-AH deep discharge battery (N5ACP). Sure enjoyed the earlier quitting time on Sunday P.M., since I had to get up early Monday to start my week (WB5KTC). I'm sure getting tired of multi-oping with "Murphy." He "fixed" three rigs this time (WA5VJB). A lot of people did not know their grid square, and I could not use them (KA5OCN). The front-end overload, poor selectivity and signal-mixing problems of today's generation of 2-meter all-mode rigs is just not acceptable, and we hams should demonstrate this by being smarter shoppers (N5TM). I was able to cut 80 ft of coax by running the station from my attic. It was hot, hot and hot. The best thing about this contest was when my wife, KA5QEQ, decided to get on and make a few SSB contacts (WD5FEH). Conditions—terrible! Activity—low! But still fun (WA4CQG)! I was told by some of our local 6-meter enthusiasts of long standing that I would be considered a serious 6-meter "freak" when I confirmed at least 40 states (N4DLE). This was my first contest, and I found it very interesting (N4ECZ). Our first effort from Putnam Mt... and probably our last. We had to quit operating numerous times to kill hornets and spiders, and to chase

numerous times to kill hornets and spiders, and to chase rats and lizards (WA4LIT) . . . after 30 hours of static and radio noise, a direct hit of lightning may have been a break from the monotony . . . Special tnx to those who did give me a contact (WB4SLM). During first minute on air, XYL informed me that I had TVI. . . .

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Division Leaders

Single Op	erator Divis	Multioperator Division		
Call	Score	Division	Call	Score
VESSERM AA2Z W9OEH WØXG W5RCI WD8ISK WB2QOQ KØTLM K1PXE K7HSJ	21,995 77,319 45,720 7040 7076 33,488 29,880 16,400 39,468 1995	Canadian Atlantic Central Dakota Delta Great Lakes Hudson Midwest New England	VESLNX KSYTL W9CFS KCØP W4BFB W8VP WA2SNA NØLL W2SZ/1 N7NW	48,645 182,252 9499 112 80,372 109,769 79,976 26,196 462,384 8720
W6YKM WD4GXN KAØMQA WD4JQV K6LMN K5SW	12,880 15,677 1872 4500 3477 13,248	Pacific Roanoke Rocky Mountain Southeastern Southwestern West Gulf	WB6KBZ N4DT WD4IIS W6OAL KJ5Q	28,026 19,516 50,094 38,678 2904

Top Ten

Single Operator		Multioperator	
Call	Score	Call	Score
AA2Z	77,319	W2SZ/1	462,384
W9OEH	45.720	K3YTL	182,252
K1PXE	39,468	WITKZ	143,040
K3HP	37,512	K1TR	118,701
W3IP	37.051	W8VP	109,769
WD8ISK	33,488	W4BFB	80,372
WB2QOQ	29,880	WA2SNA	79,976
WA2TEO	28.542	WB2RVX	72,653
W2EIF	26,268	W8DGY	59,640
K1EM	24,882	W1QI	52,290

turned out to be my 11-year-old TV "going south." Solved TVI problem, bought new TV (KE4WT). Score is low due to stinko condx and also military reserves both days, so I missed morning scatter and tropo (K1FJM/4). Tnx fer the grid-square concept, or our multiplier count would have been pitiful (W4BFB). What really blew my mind was WB6NMT working up and down the West Coast on 2-meter sideband mobile!! I guess my elevation of 5000 ft was bouncing signals off the inversion (K6LMN). I was surprised to hear that most of those participating knew all about

the grid-square concept. I was expecting to have to explain it a lot more (WB9LOZ). With highs in the 100s, it was difficult to stay cool . . . I kept waiting for the inversion over central California, but it never materialized. Still had a good time (WAØJRB/6). Really liked using grid squares. Why not recognition for the highest score in each grid square? (WA6SLF). I believe we had better DX on two than any other band. For some reason, 1296 DX record was exciting (W6OAL). Quite different from ARRL Section contest. Also "fake" contacts are not easily gotten via so-

called scatter modes. The grid square two-way requirement makes the contact more believable. It is interesting that grid-square distribution benefits those inland from the coast ... where activity is considerably less, station QSO total-wise (K7ICW). Best contact was 60 miles on 1296 with 2 W (K7HSJ). Had to move Saturday morning because of snow Friday night ... only moved a few miles, but it put me in CN87, which I didn't find out till a few days later (WA7UQV). My little station is surrounded by big guns ... each with a kilowatt and four or eight long Yagis. I felt like a VW between two big 18-wheelers on the freeway (N7DRR). Went all the way up to EN67 to give out a rare one and had no propagation (WB8TGY). Contests such as this show the real potential of low-powered stations. When but in a contest will a very distant station struggle so hard to hear you? But this shows one the actual range that is possible (K8CQA). I discovered the quickest way to stall a 5-hp gasoline engine is to attach a 70-A automotive alternator to it through a 4:1 pulley, and then key your xmtr with the linear on (WB8DRR). If this is not the friendliest competition known to mankind, I don't know what is! Supplies here included 148 grams of peppermint starlights, four packs of Hubba Bubba gum, three 2-liter bottles of Pepsi and four aspirin (for extremely patient XYL). After XYL saw her second contest in 13 years of living with a ham, she enrolled in a Novice class. If you can't beat them ... (WA3DNM).

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; K — 48 GHz; L — light). Among the single-operator stations, the overall Section winners are indicated by bold-faced type for the call sign of the Section winner

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 New Hampshire, WA10UB is the overall Section winner as well as the single-band leader on 50 and 144. AC1J is the 220-MHz and 432-MHz leader.



Canadians VE2DWG, VE2HAK, VE2DUB, Joe Alonso and VE1BCZ began operations dry and on the rocks. (VE2XL photo)



N4HY is "radioactive" from station K1DS/1 in Rhode Island.



N2DXP finds operating to be a breeze at 6-meter multiop station K2DEL in Northern New Jersey. (KT2K photo)

W/VE	WB1FKF WA1YKN	6400- 107- 5478- 137-		W1JSM W1IUN	2616- 928-		24-B 16-B	K1WGN WA1UOL	1136- 53- 16-ACD 480- 32- 15-AB		+K2s MME,SK,N2s BJ,
1	WIJR	4032- 58-	32-ABCDE		910-	70-	13-B	WB1FSV	240- 30- 8-A 3336- 139- 24- B		X,N6BQD,WA2MEE,WA8MAZ, EE,KSP,NEC,VME,WD2ADO)
G	W4XP		26-ABCD	Db - 4 - T - 1	1			WA1VTA KF1R	140- 20- 7-B	WDZS I	33,344- 442- 64-ABCD
Connecticut	W1FM K1TQ		24-ABD 19-ABD	Rhode Is	land			KAlCRX	33- 11- 3-B		
K1PXE 39,468- 342- 78-ABCDE	WIJOT		12-BCDE	Wlajr	3744-	90-	32-BD		(+AG1M, AK4L, K1DH, K1TOL,	New York	City - L.I.
K1EM 24,882- 323- 66-ABCD	NIBC	477- 36-	9-BD		Klio, NibNC,	WAlA'	YS,		ZUF, KAls DZV, ZE, KD2S,		17 010 061 57 400
WA1UQC 19,971- 259- 63-ABCDE	WØRLI	5742- 198-		WA2JRH	, WB4RVA)				W2ARQ, WA2s AAU, SPL,	N2BFJ	17,010- 261- 54-ABD 7400- 200- 37-AB
W1FAJ 3552- 86- 32-ABCD	W1 AX	315- 35-				238-	66-ABCDE	WASUSA	,WB1s,CBH,HIH,WB2JSJ) 462,384-1414-247-ABCD	WA2SLY K2OVS	3597- 100- 33-ABD
WA1HYN 3393- 100- 29-BD WA1GTP 608- 38- 16-AB	KA1 DHO	16- 8-	2-B	KIDS (+1	N4HY)	216-	E2-ABCDE		EFGHIJ	WA2EUS	1140- 55- 15-BD
N1CLW 308- 28- 11-AB	W1XM (+N2ME	E,WB5RWY)	EO ARCRE		16,066	246-	52-ABCDE	KITR (+	AEIV, KIBA, KIEA, K3WM,	WB2TCQ	3515- 185- 19-B
W1WHL 1104- 69- 16-A	N1BLI (+N1BC	13,832- 188-	JZ-ABCDE	Vermont					M, BZÚ, W1MÍ, WA1PBU,	KA2BPP	2016- 112- 18-B
K1RZ 10,016- 313- 32-B	MIDEL (.MIDC	9761- 197-	43-ABD	Aermone				WA1VF.	1)	K2RIW	5928- 114- 26- D
K1GX 3725- 149- 25-B	KA1CZR (+WA			WIAIM	2997-	67-	37-ABCD		118,701- 789-121-ABC	WB2PWR	(+WA2YWP)
WB1BXS 2142- 119- 18-B	*	8140- 187-	37-ABD	WAljGK			17-AB		DEI		11,298- 248- 42-ABCD
W1ICH 2016- 112- 18-B W1CNU 624- 52- 12-B				Klik			14-AB	_			. W t
W1CNU 624- 52- 12-B K1FO 5940- 110- 27-D	Maine			WITKZ (+Kls TK,UR,	Nls	ADY,	2		Northeri	n New Jersey
K12Z 48- 4- 4-E	W1 PLX	1188- 66-	10_B		AWG, Wls GCI	,00P	,	Factorn	New York	WB2QOQ	29,880- 344- 72-ABC
WIQI (+KAIECL, NIABY, WAIWXV,		IWHS,KAIKI,WA		WAIPQY	,WA2TIF) 143,040-	816-	149-ARCDE				DE
WB1CVW)		39,520- 385-	80-ABCDE	1	143,040	010	14) HBODE	WA2TEO	28,542- 342- 71-ABC	WB2W1H	15,476- 228- 53-ABCD
52,290- 489- 90-ABCDE		,							DEF	WA2CWA	12,926- 281- 46-AB
Eastern Massachusetts	New Hampshir	re		Western	Massachuset	ts		N2BJ	8528- 182- 41-ABD	N2CEI	12,048- 239- 48-ABCD 10,678- 281- 38-AB
	· -				01 045	210	CO-ARCR	WB2KMY	4002- 151- 23-BC 3354- 129- 26-B	N2BOW N2BMP	4312- 154- 28-AB
WIGXT 10,672- 185- 46-ABCDE		18,876- 284-	66-ABCD	KALAPR			69-ABCD	WA2ZPX WA2RUW	1368- 72- 19-B	WA2UDT	-3392- 83- 32-ABCD
WAljor 9555- 179- 39-BDE	AClJ	6228- 148-	36-ABCD	AC1T	4336-	107-	JU ABCD	MUTUM	1500 /2 1/0		22.2 00 02 112.2

K4BNC 1628- 74- 22-AB W2VC 9287- 110- 37-DE WA2ALM 1692- 94- 18-B WAZSNA(+K2BJG, KAZIVS, NZs. AAZ,	Western Pennsylvania WA3PYJ 9688- 173- 56-AB K3MD 4692- 82- 51-ABD	New Mexico	Nevada K71CW 680- 34- 20-AB WB9AJZ/7 516- 40- 12-BD	KA9BWH, KC9CP, KN9H, N8VEY, W9LVW, WB9SKC, WD9EIX, oprs.) 9499-160-59-ABC WB8HUC/9 (WA8WXT, WB8S GEU,
CJJ,EEY,W2s NPT,RS, WB2s DIN, RFB) 79,976- 592-104-ABCDE	W3KH . 198- 17- 11-BD W3HDH 352- 22- 16-A W8GOH 2376- 72- 33-B	KA5EBL 100- 10- 10-B Northern Texas	K3ZAP/7 (+K8RQO,KA7NKX,WØVPH) 480- 25-16-ABD	GEX,GEY,GFA,WD8BMC,oprs) 7280- 130- 56-AB
WA2FXB (+K2QWG,KA2BZS, WA2s GEZ PJZ,WB2QBT) 29,965- 392- 65-ABCD	WB3EUM 420- 28- 15-B, W3GNR/3 (+KA3s,AWL,DWR,WA3s, BUX,GQU,JBV) 18,286- 190- 82-ABC	KC5WX 12,336- 204- 48-ABCD WB5KTC 7410- 172- 39-ABD	Oregon	WALLED 6164- 122- 46-BCD
K2NJ (+KA2KLW, KU2C, N2s, BBA, DQF, EIZ, ELN, ENO, WB2NQV) 27, 365-356-65-ABCD	K3HKK (+K3CM, KC3s, CL, HO, N3s, DLJ DLL, N4BIX, WB3s AEI, CXR, WB8EIY)	K5DHU 2001 → 50 - 29 - ABDE	K7HBJ 1995- 74- 19-ABCDE WTTYR 1900- 70- 19-ABCDE W7UDM 1760- 83- 16-ABCD KB7CW 144- 24- 6-B	
K2DEL (K3JNZ,KA2TGY,KC2UJ,KT2K, N2AAM,N2DXP,WA1PDK,WA2s,CRF, DNU,KBI,RYC,VKH,WB2s,KSP,NTP,	K3EAS (+K3FOW, N3AEP, W3FE, WB3CEF 5593- 114- 47-ABD	KY5N 948- 79-12-B	KB7CW 144- 24- 6-B N7BLS (+K7RWT, N7DB, WA1GFM, WA7BAC, WB7BMP) 4437- 131- 29-ABCD	WØUC/9 231- 21- 11-B W9YCV 228- 19- 12-B K9GDF 18- 6- 3-B
oprs.) 23,484- 379- 57-ABCD KC2PX (+KA2RBD,WA2s,ASM,MOL,NSD	, 4	KA50CN 536- 67- 8-B Oklahoma	Utah	N9D1J 8- 4- 2-B AD9W (+KB9NM) 4270- 122- 35-B
WB2CLU) 9589- 215- 43-ABCD	Alabama WA4CQG 4214- 77- 43-ABCD	K58W 13,248- 145- 69-BCD K7CW/5 4452- 88- 42-BD	N7BHC 243- 24- 9-ABD	•
Southern New Jersey W2EIF 26,268-292-66-ABC	N4DLE 66- 11- 6-A N4ECZ 12- 4- 3-A WA4VUG 104- 13- 8-B	N5TM 1536- 51- 24-BD WD5FEH 1482- 57- 26-B K5WE 1344- 40- 24-ABD	Washington K7KOT 5070- 135- 30-ABCD	Colorado KAGMQA 1872- 66- 24-ABCD
WB2YEH 21,638- 239- 62-ABC DE	WA4LIT (+K4EHT,WB4NJG) 8448- 106- 66-ABD Georgia	WB5DSH 943- 41- 23-A AA5V 903- 43- 21-B KA5QEQ 135- 15- 9-B KJ5Q (+W5NZS)	W7ERH 715- 47- 13-ABCD WA7UQV 1695- 97- 15-BD N7DRR 765- 85- 9-B KR7L 553- 79- 7-B	WØKEA 1155- 77- 15-B WBØLHB 48- 16- 3-B
W2HRW 14,820- 251- 52-ABD KS2T 12,000- 210- 48-ABD N2BYE 7174- 205- 34-ABC KA2JKI 5320- 89- 40-ABDE	WD4JQV 4500- 80- 45-ABCDE WB4SLM 1769- 61- 29-AB	2904- 69- 33-ABCDE	WB7ATP 80- 16- 5-B N7NW (+K7ND,N7AMX,WA6NHB, WA7DTI)	WB#SWD 12,627- 186- 61-BD WB#USU 4800- 97- 40-ABD
KAZJKI 5320- 89- 40-ABDE WAZONK 6183- 229- 27-B KBZCW 1974- 94- 21-B KAZINY 1,332- 37- 12-E	KA4KKF 405- 26- 15-ABC AK4T 50- 10- 5-AB KE4WT 4- 2- 2-A	WB5RUS 920- 40- 23-AB W5UWB 286- 22- 13-AB	8720- 180- 40-ABCDE WB7PEK (+KA7ICT) 2507- 93- 23-ABCD	
WB2RVX (+KA2NYF, WB2NPE) 72,653- 511-107-ABC DE	WD4IIS (+N3AHI,N4HSM,WB4s,AEG, NMA,WD4MBK) 50.094- 308-138-ABCDE		Wyoming	KDØBT 1368- 57- 24-AB KØJJA 874- 31- 23-ABD WBØYWW 2552- 88- 29-B
K2BWR (+K22RJ) 30,780- 251- 81-ABC DE	KC4EG 21,240- 190- 90-ABCD	East Bay NR6E 350= 35-10-AB	WB7RSM 286- 26- 11-B WA7DKZ 45- 9- 5-B	WNØDRC 1584- 66- 24-B NØEKT 1550- 62- 25-B KBØV 294- 21- 14-B
Western New York	WB4NXY 4416- 79- 46-ABD WA4PCS 352- 16- 11-C	Los Angeles	8	KBØV/M 9- 3- 3-B KBØV/M 4- 2- 2-B WBØZKG (+AKØP)
K2GK 22,533- 194- 87-ABC DE W1XX/2 14,941- 197- 67-ABCD WA2SZY 3154- 73- 38-BD	North Carolina K4CAW 7884- 107- 54-BD	N3EC/6 1106- 66- 14-ABCD W6PFE 768- 39- 16-ABCD WB6DTA 112- 12- 7-ABCD	Michigan	17,982~ 196- 81-ABD Kansas
KA2OQZ 2924- 86- 34-AB W2VO 2720- 68- 40-AB	N2CJP/4 3045- 94- 29-ABD N4DT (+N4AH,K4PXE,WQ4V) 19,516- 219- 82-ABCD	KB6BVO 60- 15- 4-A WA6EKR 70- 14- 5-B W6NXB 56- 7- 4-C	WB8KAY 15,300- 176- 75-ABCD N8AKY 7261- 137- 53-AB KA8OCL 4387- 107- 41-AB	WBØIBW 5805- 111- 43-ABCD KØVUA 512- 26- 16-BD
KAZENE 2325- 74- 31-ABC - KAZLCR 1155- 55- 21-AB KCZAW 576- 36- 16-AB KZLWR 18,480- 280- 66-B	WA4WZQ/4 (+K4YBC,KA4HKK, WA4WZP,WD4GQU) 13,098- 160- 74-ABD	Orange	NEBI 3712- 67- 32-BCDE WBBAAX 3128- 92- 34-B N8DEJ 2945- 95- 31-B KABDDQ 2356- 76- 31-B	WABTKJ 1716- 66- 26-B AEØG 760- 40- 19-B KAØPHT 160- 16- 10-B NØLL (+KXØO,WAZVMS)
K2OS 4428- 123- 36-B W2UAD 4329- 117- 37-B K2JIQ 2697- 93- 29-B	Northern Florida	K6PVB 2150- 65- 25-BDE KA6ART (+KA6JDT, KE6JS, N6ME, WA6s, OQC, PMX, WB6KAJ,	W8CAP 1943- 67- 29-B AC8W 1620- 60- 27-B N8CKH 1600- 64- 25-B	26,196- 201-118-ABD KFØM (+KDØDW,WAØVJF,WBØUXP) 7772- 116- 58-ABCD1
W2AWF 195+ 15- 13-B WB2QCJ 800- 25- 16-C N2WK (+KX2J,WA2LAQ)	W4ZGS 546- 35- 14-AbD South Carolina	WD6GSH) 9600- 304- 24-ABCD	WB8TGY/8 8- 4- 2-B	KOWU (+AE5W/W) 4554- 99- 46-AB
25,198- 246- 86-ABCD WB2NFB (+KA2QID) 2970- 90- 33-AB	NB48 1375- 55- 25-B N4IBU 840- 42- 20-B WB4NNY (+WA4LDU)	Pacific AH6EK 12- 6- 2-B	Ohio WD818K 33,488- 269-104-ABCDE WB8PAT 18,920- 162- 86-ABCD	Minnesota WEXG 7040- 115- 55-ABD
WA2ZXS (+K2GVI, KA2s FTU,NDP, NIL,PSH,TAX,KB2YU,KB3RG, KC2RN,KO2H,N5BGY, WA2s FLX,	882- 36- 21-BD Southern Florida	Sacramento Valley	K8DIO 14,328- 156- 72-BCD K8WW 10,878- 100- 49-DR AA8Q 10,282- 182- 53-ABCD	WØRGU 4950- 93- 45-ABCDE KBØCQ 338- 26- 13-B KØBFT 264- 24- 11-B
NKC) 2769- 70- 39-ABD 3	WB8IGY 840- 35- 24-AB K1FJM/4 319- 24- 11-ABD	NR6A 3146- 116- 22-ABCD W6SFH (+WA6KOD) 448- 19- 14-ABCDE	WD8CTX 6670- 113- 58-ABD	KCØP (+KAØCRO) 112- 14- 8-B
Delaware	Tennessee	-K6RFT/6 (+WB/ABP) 216- 19- 8-BCDE K7MM/M6 (+KA7QOE)	K8DW 324- 13- 12-CDE K8AN 322- 23- 14-AB KB8ZR 85- 17- 5-ABC	Missouri K@TLM 16,400- 173- 82-ABCD
K4CHE/3 14,204- 206- 53-ABCD K3SXA 1846- 57- 26-BCD KA3KHZ 2091- 123- 17-B	WD4DGF 5760- 104- 48-ABC KE4HX 1092- 52- 21-AB WB4KNF 1782- 54- 33-AB	50- 7- 5-BD San Diego	WA8ZHE 15,333- 269- 57-B KA8IFC 8507- 181- 47-B W8HBG 1534- 59- 26-B	WØRWH 16,046- 205- 71-BD WØROK 7740- 105- 60-ABCD WØFY 4512- 82- 48-ABD
Eastern Pennsylvania	WA4QYK 902- 28- 22-ABCDE W4BFB (+AA4SC,AK2F,K4s CEB, LVV,MQG,PDY,RVW,TP,KA4WYC,	K6LMN 3477- 146- 19-ABCDE San Francisco	W8LCY , 450- 25- 18-B K8NI/AERO 168- 14- 12-B	KMØA 1711- 59- 29-AB WØJRP 814- 36- 22-ABD
AA2Z 77,319- 493- 121-ABC DE K3HP 37,512- 391- 72-ABCDE KB3NQ 12,555- 230- 45-ABCD	KS-5,KU4V,N4s FJE,FYF,W4FKT, WA4VCC,WB4s PCS,TLX,YFD, WD4ABZ) 80,372- 527-142-ABCD	WB9LOZ 1095- 63- 15-ABCD W6MSN 528- 30- 16-ABD WABLLY 448- 27- 14-ABD	W8VP (+K8AL,KA8BDZ,N8CQX, W5UA,W8PR,WA8s FHF,HTO, WB8ERB,WB9YCZ)	Nebraska WØEMS 3240- 76- 40-BD NØAJU 2310- 70- 33-AB
N3ADC 9120- 194- 40-ABD K31WK 8385- 183- 43-ABD WA2OMY 7410- 150- 39-ABCDE	WD4JHD/5 (+KÁ4P,KU4K,WA4NVM, WB4s, LHD,OVT,WB5BHS)	WAØJRB/6 252- 36- 7-B	. 109,769- 469-187-ABCDE W8DJY (+KA8PTL,W8ULC,WB8EEX) 59,640- 356-140-ABCDE	KCØOG 1350- 50- 27-AB
WB3LNZ 7310- 215- 34+AB KB3ZS 6322- 184- 29-BD KB3HE 5950- 139- 34+ABCD	16,296- 163- 84-ABCD Virginia	W6YKM 12.880- 206- 46-ABCD	K8CQA (+WB8TEI) 4042- 85- 47-ABD	WBØGPM) 448- 28- 14-ABD
WB3JYO 4410- 105- 30+ACD N3BHS 3250- 104- 26+ABCD	WD4GXN 15,677- 207- 61-ABD	K6JKQ 533- 30- 13-ABCDI		
WA3KEY 2754- 102- 27-AB	K4LHB 4320- 144- 30-AB	KF6GY 598- 46- 13-A	Wath 2160- 56- 36-ABD	VE Maritimes-Newfoundland
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W31IT 2673- 95- 27-ABC AA3W 595- 25- 17-BC WA3KFT 119- 17- 7-AB WA3DNM 8943- 271- 33-B K3ONW 7308- 203- 36-B N3ET 5248- 164- 32-B W3FEY 4050- 150- 27-B WBZMBM/3 840- 60- 14-B N3DMT 273- 39- 7-B KA3EHL 256- 64- 4-B W3MST 245- 35- 7-B K3YTL (+K3MK2, KA3'S CWK, EEO, 1LE, KB3QI, KF3Y, KQ3R, N3'S CXB, DAP, W3DZH, WA3'S JWP, JWY, NVS, YON, WB3'S CAI, FAA, FKQ IWZ) 182, 252- 880-161-ABCDE	K4LHB 4320- 144- 30-AB K4FTO 3200- 100- 32-AB W4DO 2610- 87- 30-AB W4DO 2610- 62- 25-AB N4MM 1196- 52- 23-AB N4MM 1196- 52- 23-AB K4JSI 744- 31- 12-CD KC4YN 574- 41- 14-AB K17CLL/W4 456- 38- 12-A K3RZR/4 4995- 185- 27-B W4TY/4 (*K8SYH, KD4TC, KO4A, WA7EFFP, WB4RD) 15- 7-B W4TY/4 (*K8SYH, KD4TC, KO4A, WA7EFFP, WB4RD) 11,835- 230- 45-ABC K4HEX (*KA4S MOV, NO, K8BABM, N4s BTM, 1MD, WB4OML, WD4GYW)	KF6GY 598- 46- 13-A KE6MS 1596- 84- 19-B NR6Q (*KG6AN) 10,535- 250- 35-ABCD Santa Barbara WA61JZ 280- 40- 7-B KA6VVD 216- 36- 6-B AA4Q/6 3- 3- 1-B W60AL (*K6HXW, KA6JOE, WA6OYS, WB6YQN) 38,678- 335- 83-ABCD EFCHIL K6MEP (*K6VM, KH6N, N6HB1, NS6X, WA6FPX) 5049- 150- 27-ABCDE Santa Clara Valley	W8TN 2160- 56- 36-ABD N8EDL 322- 23- 14-A WBADDR 5246- 122- 43-B N8II 4089- 141- 29-B 9 IIIinois W9 IVI C788- 73- 34-ABD 176- 49- 24-AB KA9MGR 144- 18- 8-A WB9MBV 15, 180- 230- 66-B KA9LDS 517- 141- 37-B KA9HDZ 4905- 109- 45-B KC9YO 4332- 114- 38-B KC9YO 4332- 114- 38-B KC9YO 4312- 114- 38-B KO9AQ 3168- 96- 33-B	Maritimes-Newfoundland VEIUT
W31IT 2673- 95- 27-ABC AA3W 595- 25- 17-BC WA3KFT 119- 17- 7-AB WA3DNM 8943- 271- 33-B K3ONW 7308- 203- 36-B N3ET 5248- 164- 32-B W3FEY 4050- 150- 27-B WBZMBM/3 840- 60- 14-B N3DMT 273- 39- 7-B KA3EHL 256- 64- 4-B W3MST 245- 35- 7-B K3YTL (+K3MK2, KA3'S CWR, EEO, 1LE, KB3QI, KF3Y, KQ3R, N3'S CXB, DAP, W3DZH, WA3'S JWP, JWY, NVS, YON, WB3'S CAI, FAA, FKQ IWZ) 182, 252- 880-161-ABCDE W3AD (+K3HKC, N3S BCD, BNA, W3'S DYT, ITX, WA3S HMK, PHL, PPH, W13BNB) 32, 422- 358- 86-ABD	KALHB 4320- 144- 30-AB KAFTO 3200- 100- 32-AB WADO 2610- 87- 30-AB WADDO 2610- 62- 25-AB NAMM 1196- 52- 23-AB NAMM 1196- 52- 23-AB KAJSI 744- 31- 12-CD KC4YN 574- 41- 14-AB KL7CLL/W4 456- 38- 12-A K3RZR/4 4995- 185- 27-B KFACL 451- 41- 11-B WAKMS 105- 15- 7-B WATMY/4 (*K8SYM, KDAIC, KO4A, WA7EFP, WBARDO) 11,835- 230- 45-ABC KAKS MOY, NO, KBABND, NA'S BTM, 1MD, WBAONL, WDAGYW) 5 ATRABASA 3456- 60- 48-ABCD	KF6GY 598- 46- 13-A KE6NS 1596- 84- 19-B NR6Q (+KG6AN) 10,535- 250- 35-ABCD Santa Barbara WA61JZ 280- 40- 7-B KA6VVD 216- 36- 6-B AA4Q/6 3- 3- 1-B AA4Q/6 3- 3- 1-B AA4Q/6 (+K6HXW, KA6JOE, WA6OYS, WB6YQN) 38,678- 335- 83-ABCD EFGHIL K6MEP (+K6VMN, KH6N, N6HB1, NS6X, WA6FPX) 5049- 150- 27-ABCDE Santa Clara Valley KA6INC 720- 60- 12-AB WB6KBZ (+K6CSS) 28,026- 385- 54-ABCDE	W8TN REDIL 322 - 23 - 14-A MBBDRR 5246- 122- 43-B N8II 4089- 141- 29-B 9 111inois W9TVI 2788- 73- 34-ABD RC90A 1176- 49- 24-AB RA9MCR 144- 18- 8-A WB9MSV 15,180- 230- 66-B K9AKS 10,904- 188- 58-B KA9LDS 5217- 141- 37-B N5AFL/9 5152- 112- 46-B KA9HDZ WD9FSA 4826- 127- 38-B KC9YO 4332- 114- 38-B N9AQ 3168- 96- 33-B WB9UMJ 2418- 78- 31-B K9BQL 1625- 65- 25-B W9LMJ 1392- 58- 24-B	Maritimes-Newfoundland
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