Results, 1995 ARRL September VHF QSO Party

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and
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e're getting better, but we're still not quite there yet! This year's September contest had everything you could ask for, except for a day of incredible, country-wide propagation. Perhaps we were all spoiled by all the great times we had last year? It could be, but we contesters always look toward the future. This was a pretty good contest for most folks, despite the conditions.

Hopes were certainly high; with a large hurricane off the East Coast, everyone from Virginia to Maine was hoping for a little tropo to add flavor to a bland weekend, but it never really materialized. What tropo we did have turned up far from either ocean. Saturday night saw some tropo from Kansas to West Virginia, enabling the KBØPGJ crew to work N8FMD on 144, 222, and 432, right around 0100Z. Pete, VE3VD, found some good tropo about the same time out to Missouri. Later Sunday morning, Jon, NOØY, found some good 2-meter tropo from EM17 out to EM26 in Oklahoma and EM57 in Nebraska.

What made the contest so frustrating for so many people was the way it ended. Just like the past two runnings of the Party, the contest ended with a band opening—we had some good aurora show up to make things interesting. For some, though, it showed up with just 30 minutes left in the contest! That's a long time to wait for a little excitement.

Nevertheless, it was exciting. There were a lot of people, smart enough to hang around to the bitter end, who found themselves rewarded with some new grids to add to the multiplier total. If you were in the Pacific Northwest, you probably could have picked up at least another four or five grids to the east had you been on. Out along the northern plains, it was even better! The WØUC/9 group picked up 12 grids at the end of the contest—how many were you able to get?

You don't always need tropo to get good score, though. Look at Zack, KH6CP/1, who was able to work 18 grids on 1296 without any tropo. This is pretty good for a QRP-portable operation, wouldn't you say? A fair number of you took the time Sunday morning for another tried-and-true propagation mode-meteor scatter. Smart operators like Jeff, WA2TEO, know how effective this method can be. From Connecticut he worked stations out to Missouri and Mississippi Sunday morning on 6 meters. If you're not familiar with this technique, there are a lot of resources (such as the ARRL publication, Your VHF Companion), with plenty of tips on how to make this work.

Even though this wasn't a year for record-breaking propagation, we still had some records fall, and some spectacular efforts. Zack, KH6CP/1, used his sizable collection of microwave gear to set a new overall record in the QRP-Portable class, amassing 101k points. Dick's crew at

K3MQH didn't do as well as they did last year, but they still dominated the rest of the Limited Multiops. They're sure tough to beat! Of course, when you're speaking of tough to beat in a VHF contest, you're usually talking about W2SZ/1, who destroyed the multioperator competition yet again. Another outstanding effort worth mentioning is the one turned in by Jim, WB2ODH, and his crew, who finished second in Limited Multioperator from the West Coast.

Of course, we'd really be remiss if we didn't mention the great job Pete, K9PW,



Jack, AB4CR, figured out a great way to pick up some more contacts—he sent out the rest of the family roving! Christopher, N4IRI, poses by Cheryl, N4STK's, rovermobile. Cheryl wants to know if she can claim bonus points for taking harmonics less than 10 years old "out for a ride."



The St Johnsbury Academy Ham Radio Club took off for a cornfield in Barnet, Vermont, for a little portable operating as N1TTV. (I-r) Taylor, N1UAV; David, N1UEU; Ethan, N1UAW; Adam; Bruce, N1TTV; Eileen, N1UAZ; Merle, N1VPF; Bernier, N1SHO; Jack, N1TFM; Michael, N1UAX; and Ken, N1OSJ.



Chris, N1NIQ, operates the 2-meter SSB station from the W1QK contest van.

QSU Lea	aers	By Band									
Single Opera	ator/Q	RP Portable									
50 MHz		144 MHz		222 MHz		432 MHz		902 MHz		1296 MHz	
WA2TEO	169	WA2TEO	332	NM1K -Q	85	K9PW	147	K1RZ	32	WA4VHF	48
KC4UCE	168	K9PW	305	WA2TEO	81	K1RZ	114	WD8ISK	28	K9PW	44
K1RZ	152	K1RZ	274	K9PW	75	WA2TEO	109	WA2TEO	28	AA2UK	43
NY2Z	134	WB2QQQ	254	KH6CP/1 -Q	75	K1FO	105	K9PW	27	K1RZ	43
WD8ISK	127	WZ1V	237	N2DSY -Q	73	N2DSY -Q	102	AA2UK	27	KH6CP/1 -Q	39
N1MIA	120	AA2UK	236	WD8ISK	68	WD8ISK	99	K2UOP/8	23	WD8ISK	37
WZ1V	105	K2GAL	233	K1RZ	67	WB2DNE	98	KH6CP/1 -Q	21	WZ1V	35
K1TR	103	KD1DU	231	AA2UK	67	AA2UK	97	WB2VVV	20	WBØGGM	33
K9PW	102	KE8FD	228	K1TR	62	KE8FD	97	WZ1V	20	WA2TEO	29
K5MA	101	VE3VD	226	KE8FD	60	WZ1V	94	KD1DU	17	K2UOP/8	27
				WZ1V	60	KH6CP/1 -Q	94			WB2VVV	26
										WB2DNE	26
-Q denotes (ARP F	Portable								WDZDIVE	26
		Portable								WBZDINE	20
Multioperate				222 MHz		432 MHz		902 MHz			20
Multioperato 50 MHz	or	144 MHz	702	222 MHz W2S7	170	432 MHz	270	902 MHz	66	1296 MHz	
Multioperato 50 MHz K3YTL	343	144 MHz K3MQH -L	702 632	W2SZ	170	W2SZ	270	W2SZ	66	1296 MHz W2SZ	93
Multioperato 50 MHz K3YTL W2SZ	343 331	144 MHz K3MQH -L W2SZ	632	W2SZ WB2ODH/6 -L	138	W2SZ K3MQH -L	259	W2SZ K3YTL	33	1296 MHz W2SZ K3YTL	93 51
Multioperato 50 MHz K3YTL W2SZ K3MQH -L	343 331 276	144 MHz K3MQH -L W2SZ N8FMD	632 511	W2SZ WB2ODH/6 -L K3MQH -L	138 127	W2SZ K3MQH -L N8FMD	259 251	W2SZ K3YTL W4IY	33 24	1296 MHz W2SZ K3YTL N8FMD	93 51 40
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S	343 331 276 269	144 MHz K3MQH -L W2SZ N8FMD K3YTL	632 511 506	W2SZ WB2ODH/6 - L K3MQH - L WB1GQR - L	138 127 121	W2SZ K3MQH -L N8FMD WB1GQR -L	259 251 187	W2SZ K3YTL W4IY N8FMD	33 24 24	1296 MHz W2SZ K3YTL N8FMD AA4S	93 51 40 29
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S N2WM	343 331 276 269 222	144 MHz K3MQH -L W2SZ N8FMD K3YTL WB1GQR -L	632 511 506 469	W2SZ WB2ODH/6 -L K3MQH -L WB1GQR -L AA4S	138 127 121 100	W2SZ K3MQH -L N8FMD WB1GQR -L K3YTL	259 251 187 154	W2SZ K3YTL W4IY N8FMD AA4S	33 24 24 22	1296 MHz W2SZ K3YTL N8FMD AA4S KE6TCY	93 51 40 29 29
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S N2WM W4IY	343 331 276 269 222 210	144 MHz K3MQH -L W2SZ N8FMD K3YTL WB1GQR -L N2WM	632 511 506 469 450	W2SZ WB2ODH/6 -L K3MQH -L WB1GQR -L AA4S K3YTL	138 127 121 100 97	W2SZ K3MQH -L N8FMD WB1GQR -L K3YTL WB2ODH/6 -	259 251 187 154 L153	W2SZ K3YTL W4IY N8FMD AA4S N2WM	33 24 24 22 19	1296 MHz W2SZ K3YTL N8FMD AA4S KE6TCY K1WHS	93 51 40 29 29 28
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S N2WM W4IY N8FMD	343 331 276 269 222 210 207	144 MHz K3MQH -L W2SZ N8FMD K3YTL WB1GQR -L N2WM AA4S	632 511 506 469 450 450	W2SZ WB2ODH/6 -L K3MQH -L WB1GQR -L AA4S K3YTL N8FMD	138 127 121 100 97 97	W2SZ K3MQH -L N8FMD WB1GQR -L K3YTL WB2ODH/6 - AA4S	259 251 187 154 L153 152	W2SZ K3YTL W4IY N8FMD AA4S N2WM K1WHS	33 24 24 22 19 19	1296 MHz W2SZ K3YTL N8FMD AA4S KE6TCY K1WHS WA6YDI	93 51 40 29 28 28
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S N2WM W4IY W8FMD WB1GQR -L	343 331 276 269 222 210 207 192	144 MHz K3MQH -L W2SZ N8FMD K3YTL WB1GQR -L N2WM AA4S W4IY	632 511 506 469 450 450 341	W2SZ WB2ODH/6 -L K3MQH -L WB1GQR -L AA4S K3YTL	138 127 121 100 97 97 78	W2SZ K3MQH -L N8FMD WB1GQR -L K3YTL WB2ODH/6 - AA4S AA2SP -L	259 251 187 154 L153 152 132	W2SZ K3YTL W4IY N8FMD AA4S N2WM K1WHS W1XX	33 24 24 22 19 19	1296 MHz W2SZ K3YTL N8FMD AA4S KE6TCY K1WHS WA6YDI WOUC/9	93 51 40 29 28 28 28
Multioperato 50 MHz K3YTL W2SZ K3MQH -L AA4S N2WM W4IY N8FMD	343 331 276 269 222 210 207	144 MHz K3MQH -L W2SZ N8FMD K3YTL WB1GQR -L N2WM AA4S	632 511 506 469 450 450 341	W2SZ WB2ODH/6 -L K3MQH -L WB1GQR -L AA4S K3YTL N8FMD AA2SP -L	138 127 121 100 97 97	W2SZ K3MQH -L N8FMD WB1GQR -L K3YTL WB2ODH/6 - AA4S	259 251 187 154 L153 152	W2SZ K3YTL W4IY N8FMD AA4S N2WM K1WHS	33 24 24 22 19 19	1296 MHz W2SZ K3YTL N8FMD AA4S KE6TCY K1WHS WA6YDI	93 51 40 29 28 28

Single Opera	tor/C	RP Portable									
50 MHz		144 MHz		222 MHz		432 MHz		902 MHz		1296 MHz	
KC4UCE	91	KE8FD	76	KE8FD	41	K9PW	54	WD8ISK	21	K9PW	23
WD8ISK	56	WBØGGM	75	K9PW	39	WD8ISK	47	WA2TEO	19	WD8ISK	21
WA2TEO	50	K9PW	72	WD8ISK	38	N3AJX	42	K9PW	18	K1RZ	19
WRØG	44	KB9IEC	69	VE3VD	31	KE8FD	41	K1RZ	18	AA2UK	19
K9PW	44	VE3VD	61	WA2TEO	30	WRØG	38	K2UOP/8	17	WA4VHF	18
K1RZ	44	KØUS	61	K1RZ	29	WB2DNE	37	AA2UK	17	NØLL	18
KB9IEC	43	WD8ISK	61	WRØG	28	WZ8T	34	KH6CP/1 -Q	14	KH6CP/1 -Q	18
W2YV	43	W7XU	60	NOLL	27	WA2TEO	34	WR3I -Q	12	K2UOP/8	17
AB4CR	40	WRØG	58	KU8Y	26	KAØRYT	34	N9MKC	12	WRØG	16
WBØGGM	37	WAØX	58	WZ8T	25	NOLL	34	WB2DNE	12	WB2DNE	15
VE3VD	37			AA2UK	25	K2UOP/8	34		-	WZ1V	15
-Q denotes Q	RP I	Portable				K1RZ	34				
Multioperator											
50 MHz		144 MHz		222 MHz		432 MHz		902 MHz		1296 MHz	
WØUC/9	83	N8FMD	85	AA4S	43	N8FMD	55	W2SZ	24	W2SZ	25
AA4S	73	AA4S	76	K3MQH -L	43	K3MQH -L	52	K3YTL	20	K3YTL	21
W4IY	56	N9KJE -L	71	N8FMD	40	AA4S	50	N8FMD	17	N8FMD	20
N8FMD	54	WØUC/9	68	WB2ODH/6 -L	40	WB2ODH/6 -L		AA4S	17	WØUC/9	17
K3MQH -L	54	K3MQH -L	67	WØUC/9	35	WØUC/9	42	W4IY	16	AA4S	17
K3YTL	53	W4IY	60	K3YTL	32	AA2SP -L	38	WØUC/9	12	W4IY	12
WB2ODH/6 -L		K3YTL	60	N2HLT -L	31	W4IY	37	N2WM	11	W1XX	12
W2SZ	44	N8TLZ -L	59	W2SZ	31	W2SZ	36	W1XX	10	K1WHS	12
AA2SP -L	44	W4MYA -L	52	AA2SP -L	30	N2HLT -L	35	K1WHS	9	N2WM	11
NOULT I	42	W2S7	51	WAIN	20	KSYTI	24	KREILIA	-	MUZZ	

did. If you're one of the naysayers who think only East Coast ops can win a VHF contest, we point out that Pete has now won this contest two out of the past three years. Try to top that! Sure, he's got a pretty good microwave setup. Even the best of stations, though, won't guarantee you a win if you're not a good operator.

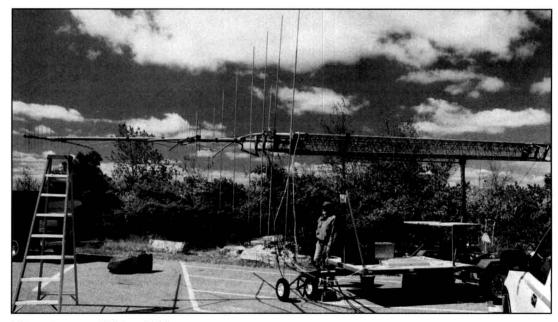
One attraction of this contest that never depends on the propagation is the famed Participation Pins. Did you order yours? They're sure popular! Almost two out of every three entries we received ordered a pin this year. If you've not hopped on this bandwagon yet, you ought to soon! They're already big collector's items, and you'll see a lot of them adorning hats, lapels, and coats at your local hamfests, club meetings, and get-togethers.

On a final note, we'd like to mention the new ARRL Contest Yearbook. Now you can find all the division records for every ARRL contest, along with all the official rules and forms. If you're looking for an easy-tobreak record somewhere in your division, this book just has to have it! Get yours now!

So what lurks in the future for next year? Who can tell? We sure don't know, and neither will you if you're not on the air. Next September's contest will be from the 14th to the 16th-make sure you're on!

SOAPBOX

We kept waiting for the bands to open. It was a long, long wait (W4IY). The conditions were down a bit, but we all had a lot of fun (N8PJP). Changing bands while operating can be interesting, and logging while driving is even more interesting (WRØI). Activity was down, conditions weren't super—but, as usual, I loved it (WR31). The conditions were good, and had I not been limited by my equipment, I'm sure I could have made many more QSOs (NØXOH). We thought we would have to shut down when we heard loud booms echoing across the valley below us, and light reflecting off the bottom of the clouds. It turned out to be a fireworks display (N2AAM). Although the bands were a bit flat, we still had a great time experimenting with some



Harry, NJ2Y, sets up the 6-meter trailer/tower at the N2AAM contest site.

Multiplier Leaders By Band

42 W2SZ

-L denotes Limited Multioperator

N2HLT-L

59 52 51

	nd, Hudson a isions; Marit		Southeast F (Delta, Roar Southeaste			Central Region (Central and Divisions; Or	Great Lakes		Midwest Region (Dakota, Midwer Mountain and W Divisions; Mani Saskatchewan S	st, Rocky est Gulf toba and	u.	West Coast F Northwester Southwester Alberta, Briti NWT/Yukon S	n and n Divisions; sh Columbi	ii
WA2TEO K1RZ AA2UK WZ1V WB2DNE	210,396 195,509 144,744 112,470 110,646	SSSSS	WD8ISK K2UOP/8 KP4XS KA2DRH KC4QWZ	233,748 100,632 49,000 47,250 38,227	SSSS	K9PW KE8FD N9MKC K8MD KU8Y	295,680 156,023 78,672 64,678 61,633	S S S S		123,690 85,192 73,480 52,658 48,034	SSSSS	KJ6KO KE7SW AJ6T W6GGV KC6WLC	17,580 15,240 14,396 12,408 11,077	SSSS
KH6CP/1 NM1K N2DSY WR3I VE2PIJ	101,140 62,900 53,669 39,950 3,048	99999	WA4IOB KE4BM KQ4XJ KF4BOG	6,448 1,127 280 209	0000	KB8QBM N8LGP N8AXA/126 N8KWX W9SZ	7,950 3,312 3,255 1,188 1,081	9999	NOØY WBØLJC (EN34)	60 16	0	N7NKO KE6GFI KK6KE	3,930 1,070 580	000
W2SZ K3YTL N2WM K1WHS W1XX	708,900 387,672 184,492 140,091 65,920	M M M M	N8FMD AA4S W4IY NG4C	449,888 431,296 218,385 12,144	M M M	WØUC/9	206,440	М	KB5IUA KBØPGJ	34,920 4,680	M	KE6TCY WA6YDI WI7Z N6OBP W6TRW	39,201 33,879 15,730 15,423 6,450	M M M M
K3MQH WB1GQR AA2SP N2HLT N2AAM	378,000 144,301 140,292 113,724 68,801	L L L	N8TLZ W4MYA N8PEK N4GKE KE4ZTC	73,941 43,416 22,528 8,568 7,384		N9KJE AA8BC N2BJ WD8KHE VE3SAU	49,580 20,825 9,752 9,515 9,454		KFØM KK5IH N5XYO KBØTMQ WDØGNK	7,020 5,408 1,690 960 629		WB2ODH/6 WA6KLK WN6W KD6DHB N6XIV	189,360 33,900 18,468 12,771 9,947	
N3KKM KB2NAV N1QVE AA2AM K2RIW	7,665 5,745 4,396 3,952 3,901	RRRRR	WA8NJR N3TUM AD4DY KB4NVD N8FUJ	21,747 1,818 1,124 909 861	R R R R	NØSWV KF9US	1,682 1,663	R	AJØE N5NIQ NØBEL WRØI N4STK	17,458 3,272 2,343 1,316 562	R R R R	AA7VT K6LMN KD6DYK W6BB KM6RH	39,588 7,708 3,071 2,933 2,354	R R R R

Тор Те	n								
Single O	perator	QRP Porta	ble	Multiope	rator	Limited M	lultioperator	Rover	
K9PW	295,680	KH6CP/1	101,140	W2SZ	708,900	кзмон	378.000	AA7VT	39.588
WD8ISK	233,748	NM1K	62,900	N8FMD	449.888	WB2ODH/6	189.360	WA8NJR	21,747
WA2TEO	210,396	N2DSY	53,669	AA4S	431,296	WB1GQR	144,301	AJØE	17,458
K1RZ	195,509	WR3I	39,950	K3YTL	387,672	AA2SP	140,292	K6LMN	7,708
KE8FD	156,023	KB8QBM	7,950	W4IY	218,385	N2HLT	113.724	N3KKM	7.665
AA2UK	144,744	WA4IOB	6,448	WØUC/9	206,440	N8TLZ	73.941	KB2NAV	5,745
WBØGGN	123,690	N7NKO	3,930	N2WM	184,492	N2AAM	68.801	NIQVE	4.396
WZ1V	112,470	N8LGP	3,312	K1WHS	140,091	K2AA	68.300	AA2AM	3,952
WB2DNE	110,646	N8AXA/126	3,255	W1XX	65,920	W1QK	67,355	K2RIW	3,901
K2LIOP/8	100 632	VE2PIJ	3 048	KERTCY	39.201	NOK IF	49 580	KIDS	3 832



The gang at VE2JWH headed for the north woods to do a little operating from Shefford Mountain, elevation 1450 feet (I-r): Jimmy, VE2JWH; Jean, VE2BLP; and Pierre, VE2VDD.

higher bands and planning changes for January (K3MQH). This contest would have been a bust without the rovers (K9MK). We had good rover activity, and great scatter Sunday morning. Where were the 6-meter stations during the aurora? (W0UC/9). There weren't any openings on the bands, but there was a lot of local activity (WD5EWD). I went to Mt Loma Prieta (elevation, 3600 feet) to snag at least one of the few tropo grids I still needed for VUCC (AJ6T). My hat's off to all the rovers; their efforts were much appreciated (K9LCR). We had a fun aurora for the last hour of the contest, which generated some big pileups (K7CW). Thanks to WR0I for giving me five new grids on 1296 (WM4Z). We

were all hoping the hurricane offshore would bring great conditions, but nobody expected a fiasco (WB2CUT). Conditions were poorer than usual, but the weather was perfect! I just enjoyed being on the hilltop (W9SZ). I certainly had plenty of time to play with my software (W2YV). Propagation was not as good as June's was. It started slow, but did pick up (KC6HGV). Where was everybody? Conditions were terrible, there wasn't even any groundwave (NEOP). Where were the Oregon/Washington groups? (WA6KLK). I enjoy all the activity this contest generates. As I wait for January, I now know how the Maytag repairman feels (VE3URS). It was nothing like last year, when 6 meters was

open during the entire contest (W3XO). Activity was pretty grim on 222 and above (WD4MBK). Activity was great on 222 and 903 (WB2VVV). The band went dead Sunday from noon until 6. It opened up to the WNW a few hours before the contest ended up to the WNW a few hours before the contest ended (W1FEZ). I was surprised to work 18 grids on 1296 without a tropo opening (KH6CP/1). I do hope that more people try FM in addition to weak-signal operating. New Technician operators have a tremendous opportunity to learn about contesting and VHF propagation, if they choose to participate (N8WXQ). It was great to give out a rare grid square to everyone (KB4FAI). I sure had fun working some new grids and meeting new guys on the air (N7YAG). I was stopped by a Minnesota game warden who was investigating a report of some people tracking was investigating a report of some people tracking animals with radios (AJØE). It's hard to do well with a small antenna (N61FW). There didn't seem to be as many people participating this year (W3HOA). I hope January's cold sends more of us to the shack for the next contest (KB2KIR). The last hour and a half, a few of the southern FM grid source stations half, a few of the southern EM grid square stations started to be heard (KD4HJM). I had fun digging out the weak ones (N3JNX). The 6-meter aurora started at 0230Z—wouldn't you know it? (WA7IQH). It was slower at the start than June was, but the activity built up steadily (XE2/NH6ZF). There's weren't many stations on, but that was just as well, as my line noise was S9+ (KC7ITP). What happened to 6 meters? (N2QHS). There was an excellent tropo opening on 6 meters that allowed me to work into Vermont, Massachusetts and New Hamp-shire. Unfortunately, the good conditions disap-peared the next day (WB2AMU). Six meters was terrible—there wasn't any DX at all. I did better than I did in June, though, so I can't complain (KD4UPF). Conditions were not great, but they were good enough to pick up several new grids on all bands but 1296. Contests are always good for getting even the rare ones on! (WA2VOI). Persistence was the key to this year's contest! (NØIVN). While the weather front that moved through late Saturday didn't provide for the best propagation, I had a great time (NK8Q). If it wasn't for the FMers, it would have been a very slow contest (N2RDX). I really appreciate the rovers injecting interest and activity into the contest (W5IXR). Conditions were normal to below normal. 1296 was a tough row to hoe. We did have a little bit of aurora Sunday night (WD9IAB). We had good scatter conditions on Sunday morning (K7VNU). I heard very little activity from W8 or W9 (VE3BFM). This was my first time on 902 and 1296, I had forgotten how first CSOs could be such a theil. Six means counted like QSOs could be such a thrill. Six meters sounded like 160 in July! (AD4DG). It sure was quiet around here, I should have pointed my antennas north! (VE3EKP). Where was everybody? With the exception of the first couple of hours, it seemed like no one was on! (N2MPU).

Scores

Each line score lists call sign, score, stations worked, multipliers, number of grids activated (if Rover), and bands (A= 50 MHz, B=144 MHz, C=222 MHz, D=432 MHz, 9=902 MHz, E=1296 MHz, F=2304 MHz, G=3456 MHz, H=5.7 GHz, I=10 GHz, J=24 GHz, K=47 GHz, L=75 GHz, M=119 GHz, N=142 GHz, O=241 GHz, P=300+ GHz.). Call signs of division leaders and band indicators are listed in boldface type. New division records are indicated with an asterisk.

ariz, r =000+ ariz.j. Can signs of aivi	sion leaders and band indicators are list	od in boildidge type. New division records	are maleated with an asterior.
1	N2TMT 520 52 10 S A N2XFY 392 43 8 S BD	N3TBB 440 40 11 S B N3KFV 416 26 16 S AB	W4UOT (AB4SW,KE4s LPL,TVV,W4OWX, NØWQQ,ops)
Connecticut	AA2WQ 371 42 7 S BD	W3UQH 333 37 9 S B	528 36 12 L BD
WA2TEO 210,396 752 197 S ABCD9EF WZ1V 112,470 551 138 S ABCD9E	WB2ECL 368 33 8 S ABCI KF2CM 360 30 12 S B	K3KEL 289 17 17 S B W3UQC 220 22 10 S B	Virginia
KD1DU 78,512 493 112 S ABCD9E	KB2CS 344 31 8 S ABCD AA2CW 272 26 8 S BCD	WA3CSP 180 15 12 S A W8IJ 20 5 4 S A	*WD8ISK 233,748 564 258 S ABCD9EFGI KC4UCE 29,808 244 108 S ABCD9E
W3EP 15,486 213 58 S ABDE W1QJL 6,556 112 44 S ABCD	WB2YOR 260 52 5 S B	WB3BNE 2 2 1 S B	KD4UPF 15,844 183 68 S ABD
K1FO 5,880 105 28 S D	WA2IID 252 28 9 S B KB2UUK 216 36 6 S B	K3YTL (K2LNS,K3MKZ,KA3s EEO,ZHT,KB3QI, KE3OA,N3s PBH,TDE,TKK,W3DZH,WA3s JWP,	N4KWX 15,808 182 64 S ABCDE AD4DG 13,826 166 62 S ABD9E
K1WVX 2,754 89 27 S ABCD WA1GTP 1,450 54 25 S ABC	N2WWU 203 25 7 S BD W2VDI 180 15 9 S ABC	YON, WB3s FAA, FKQ, ops) 387, 672 1201 232 M ABCD9EFGH	K4FTO 10,339 160 49 S ABCD W4DO 6,556 99 44 S ABCDE
N8WXQ 1,026 57 18 S AB N1TDW 792 54 12 S ABCD	N2SQO 76 14 4 S BD	K3MQH (KA2AEV,K3s IXD,JFL,KF3P,N3s EYB,	WA4OVW 2,170 59 31 S ABD
KD1TM 686 49 14 S B	WA2SRP 60 12 5 S B K2BST 45 12 3 S ABC	KTV,W3EKT,WF3T,ops) 378,000 1364 216 L ABCD	KC4ZRH 1,534 53 26 S ABCD K4MSG 1,216 64 19 S B
W1BIH 504 33 14 S BD KB1HY 370 37 10 S A	WA2FME 42 14 3 S B	K2AA (KF2YX,N2s FY,SCJ,SNX,WA2CVJ,ops) 68,300 544 100 L ABCD	WB4DBB 1,035 45 23 \$ AB K4UO 740 37 20 \$ B
AA2Z 180 17 10 S ABD NM1K 62,900 404 100 Q ABCD9EFG	KB2TBC 14 7 2 \$ B	W3HZU (AA3BJ.N3s DEJ.JDQ.MTY.UOO.VQH.	AD4TJ 680 40 17 S AB
W1XX (+K1GX,W1OD)	WB2FWK 4 4 1 S B KA2EXB 3 3 1 S B	VQI,W3HLD,WS3C,ops) 36,256 336 88 L ABCD	N4MM 496 27 16 S ABD KC4YHI 468 36 13 S AB
W1QK (+N1NIQ,KC2QF)	N2TJQ 1 1 1 S B WR31 39,950 295 94 Q ABCD9	N3ADC (+KA3ZXA,KB3BGO,N3s OWJ,RSE) 8,786 142 46 L ABCD	KA6ASV/4 420 29 14 S ABD KC4YMB 338 26 13 S AB
67,355 567 95 L ABCD W1ORS (K1TEY,N1s BBE,KGY,KPR,OKM,	N2VOT (+KB2UYY,KF2YC,N2s YYU,ZKD,	N3JPV (+N1RDB,KY3W,WC3A)	K4ME 297 27 11 S B
ORW,W1ZQT,WD1X,N2BQA,WA2TJR,ops)	WA2OEK) 30,080 474 47 L ABCD WZ2X (+N2YBU)152 38 4 L B	3,492 90 36 L ABD N3ORF (+N3FJA)	KQ4XJ 280 28 10 Q B
6,086 150 34 L ABCD	NYC-Long Island	2,900 91 25 L BD W3ZGD (KA3LJL,N3NRN,ops)	AA4S (+N3AHI,NZ3I,AA4s NC,ZZ,AB4RU,
Eastern Massachusetts K5MA 28,428 315 69 S ABCD	N2QHS 2,470 78 26 S ABD	2,233 76 29 L ABD	K4KAZ,KB4NT,KE4s MKW,ZQD,NAHSM, WA4VCC,WD4s DWN,JQV,WS4F,AE6E,
KB1KM 18,306 248 54 S ABCDE	N2ZRC 1,540 113 11 S B D KG2BB 765 41 17 S ABD	N3TPL (+KC3LE,N3PTT) 741 37 19 L ABD	NX9O,KØDI,ops) 431,296 1046 293 M ABCD9EFGHI
KX1C 13,821 192 51 S ABCD9E K1GVM 5,016 116 33 S ABDE	NB2V 552 23 12 S D	K3DMA (+op) 504 35 12 L ABCD	W4IY (+N1TXI,AE4DG,K4HWG,KA4RRU, KD4VSK,KJ4VG,KO4FM,KT4AD,N4DXS,
KA1VY 2,231 79 23 S ABD WA1OFR 559 33 13 S ABDE	KF2XF 363 33 11 S B	Maryland-DC	WB4s NFS,RMJ,K8EI,WAØDYJ,ops)
KA1EKR (+KA1CLV)	WB2AMU 645 43 15 Q AB KB2VKQ (KB2s NVI,ULH,N2YHK,ops)	K1RZ 195,509 682 193 S ABCD9E WB2DNE 110,646 452 162 S ABCD9E	218,385 770 211 M ÅBCD9E! W4MYA (+NET)
16,362 229 54 L ABCD K1MYL (+KA1s BZE,RM,N1NMZ,N1OHV,	720 58 10 L BCD	W3ZZ 75,625 420 121 S ABCD9E K3ZO 21,087 297 71 S AB	43,416 333 108 L ABD KC4AUF (+KS4RX)
WA1DPR) 5,504 142 32 L ABD N1FDX (+N1FYZ)	Northern New Jersey	WA4VHF 12,384 109 43 S DEF	2,349 61 29 L ABCD
702 54 13 L B	WB2VVV 61,182 392 103 S ABCD9E WB2WIH 25,220 281 65 S ABCD	KH2CY 10,011 186 47 S ABCD N3DUE 2,511 85 27 S ABD	5
Maine	WB2QOQ 7,874 254 31 S B	WB2BZR/3 954 40 18 S ABCDE KA1YY 884 52 17 S B	Arkansas
W3HQT 15,470 132 70 S BCD9E N1DGF 2,002 58 26 S BCD	N2UAH 5,809 135 37 S ABD WB2CUT 4,347 189 23 S B	N3GBP 574 41 14 S B WA3GYW 392 28 14 S AB	KB5WBH 442 26 17 S B
KQ1V 240 24 10 S AB	N2QXF 3,567 123 29 S AB NA2R 2,420 121 20 S B	W3LMC 140 20 7 S B	N5HSF 54 9 6 S A
K1WHS (AF1T,K1s LL,MNS,KV1S,W1AIM, WA1TFH,WB7Q,KXØO,ops)	N2LMU 2,220 115 15 S BD KB2TJX 1,120 55 16 S ABCD	KK4GV (+N3PJT)418 38 11 L B	Louislana
140,091 629 147 M ABCD9EFGIJ W1NPP (K1GPJ,N1s KAT,HQW,MBZ,ops)	N2OPJ 664 79 8 S BC	Western Pennsylvania	N5WKI 1,590 53 30 S AB K5CZD 1,334 41 29 S AB D
3,552 72 37 L ABCD	N2TBO 405 B1 5 S B KB2TGU 342 38 9 S A	NO3I 16,206 185 73 S ABD KA3SDP 7.755 110 55 S ABD	N5MYH (+KB5SÜI) 4,800 85 48 L ABD
New Hampshire	N2ZAQ 341 29 11 S ABD N2ZBH 288 47 6 S BD	AA3GM 6,380 100 55 S ABD KA3JWJ 2,030 54 35 S ABD	Mississippi
K1TR 78,430 472 110 S ABCD9EF W1EJ 14,526 178 54 S ABCD9E	WB2RQX 288 36 8 S B N2DSY 53,669 458 77 Q ABCD9EP	AA3GQ 6 3 2 S A WBØIWG 4 2 2 S AB	KB4FAI 640 32 20 S B
AC1J 11,544 177 52 S ABCD WA1T 7,644 147 42 S ABD	N2WM (+K2BJG,KB2LHH,KZ2S,N2s AAZ,	KB3AFT 45 15 3 Q B	KG5MZ 576 32 18 S AB
N1JHJ 492 34 12 S BD	BCC,BIM,HMM,TTT,WB2UFF) 184,492 911 154 M ABCD9EF	4	New Mexico
KD1AW 448 28 8 S D N1RIK 12 6 2 S B	N2AAM (+KA2AYR,KB2JE,N2s FHC,OWE, NJ2Y,NO2T,NX2Q,WA2CRF)	Alabama	K5RHR 4,872 80 42 S ABCD KB5ZSK 1,240 43 20 S ABCD W5IXR 800 32 20 S ABD
WA1YKM 224 28 8 Q B KB1BOW (KA1FYB,N1NUM,WB1FLD,ops)	68,801 522 107 L ABCD N2RDX (+WA2JHN)	KA2DRH 47,250 274 135 S ABCDE	
25,978 331 62 L ABCD WA1RLO (+AA1OH,N1RPN)	2,000 100 20 L B	KS4YT 1,568 49 32 S B KD4PEE 300 30 10 S A	North Texas K9MK 35,672 284 98 S ABCD9
882 49 18 L AB	Southern New Jersey	KE4BM 1,127 49 23 Q AB KF4BOG 209 19 11 Q AB	WD5EWD 6,000 103 48 S ABCD
Rhode Island	AA2UK 144,744 554 163 S ABCD9EFG WB2YEH 56,154 353 98 S ABCD9EFG	N4GKE (+ops)8,568 121 63 L ABCD	KF5DO 4,788 114 42 S B KB5OAI 2,784 78 32 S ABCD
KM1X 8,862 204 42 S AB D K1TPK 560 36 14 S ABD	WB3JYO 39,336 279 88 S ABCD9EFG K2GAL 10,951 233 47 S B	Georgia	KK6IT 2,652 102 26 S B KC5CPP 1,971 73 27 S AB
N9LYE 162 19 6 S BD K1KT 104 26 4 S B	W2EIF 9,450 130 45 S ABCD9EF	KD4HLG 6,576 115 48 S ABD W4WDH 4,578 88 42 S ABCD	KC5EPL 1,040 60 16 S ABD KC5ADG 819 39 21 S AB
K1MUJ (K1OQG,KA1ZNZ,WA1HYN,ops)	N2GBY 1,925 77 25 S AB KA1ZFO 1,738 69 22 S BD	W4WDH 4,578 88 42 S ABCD WD4MBK 1,541 31 23 S CDE N4TYP 741 32 19 S ABD	Oklahoma
36,883 340 77 M ABCDE	N2UNH 533 34 13 S ABD KF2TT 264 33 8 S B	KD4YDA 80 19 4 S BD	WM4Z 14,948 160 74 S ABDE
Vermont K1LPS 2,072 51 28 S ABCD9	N2MPU 232 29 8 S B KA2GSL 96 16 6 S B	KE4ZTC (KC4GCK,KE4s IXE,NYK,KF4CUS,ops) 7,384 125 52 L ABD	N5TML 8,308 108 62 S ABD K5SW 6,201 83 53 S ABCDE
KA1FJ 88 8 8 S ABD *KH6CP/1 101,140 423 130 Q ABCD9EFGHI	Western New York	Kentucky	South Texas
WB1GQR (KA1NRR,N1s JEZ,MJD,RYS,	K2AN 45,652 262 113 S ABCD9EFG	K4TO 26.355 202 105 S ABD	W3XO/5 10,368 133 64 S ABCDE
WB2s CWA.JSJ.ops)	KD5RO 31,383 184 99 S ABCD 9EFGH WA2BPE 12,300 118 75 S ABCD	AD4ZW 7,560 105 56 S ABCD	KC5CCT 9,312 169 48 S ABD K5LLL 9,212 149 49 S ABD9E
144,301 969 113 L ABCD N1RRW (+KA1s CXD,DLK,RMY,N1s JIF,LSZ, PFK,WA1s JEX,MAG,NBU)	AA2GF 9,900 121 60 S ABDE	KE4KOP 154 14 11 S AB	KC5FMT 6.888 138 42 S ABD
21,299 293 59 L ABCD	WA2AEY 9,240 165 56 S AB N2PEB 8,160 126 51 S ABD9E	North Carolina	KC5CVF 645 43 15 S B
N1TTV (+N1s OŚJ,TFM,UAV,UAW,UAX, UEU,VPF) 217 28 7 L BD	WB2RRK 6,519 105 53 S ABD NY2Z 4,154 134 31 S A	W2YV 4,171 97 43 S A W4FSO 2,232 55 31 S BCD	KK5OA 390 30 13 S AB KC5FP 243 22 9 S ABD
Western Massachusetts	W2WGL 3,588 72 39 S BD	WA4IOB 6,448 97 52 Q ABDE NG4C (+ops) 12,144 152 66 M ABCDE	KC5CXU 216 27 8 S B KB5IUA (+NØQCN)
N1LZC 18.306 246 54 S ABCD	WA2ZNC 3,432 80 33 S ABCD KF2XC 3,240 95 27 S ABCD	WA4DYD (+WA4HRH)	34,920 276 97 M ABCD9E
N1FUS 7,524 174 36 S ABD WA1MBA 4,257 48 33 S BD 9EFGHI	KE2SE 2,064 78 24 S BD N2XTX 1,888 53 32 S ABD	2,480 53 40 L ABD N4HGZ (+KE4YOH,KF4AXT)	West Texas
KD1WO 3,375 115 27 S ABD N1MIA 1,920 120 16 S A	N2XTX 1,888 53 32 S ABD N2RYU 1,800 75 24 S A KB2KIR 1,431 45 27 S ABD	627 33 19 L AB N4ZAK (+KD4OFG)	N5RZ 7,729 100 59 S ABCD KK5IH (+KK5KK)
N1RSY 1,284 107 12 S B	KB2NES 1.066 56 13 S BCD	279 31 9 L B K4TP (+KD4WJN,N4DOX,WA4FSA)	5,408 79 52 L ABÇD
N1QKR 765 85 9 S B N1RWC 231 33 7 S B	N2PSH 704 44 16 S B KF2SJ 480 32 15 S B	232 29 8 L B	N5XYO (+KC5OQD,N5WDK) 1,690 56 26 L BD
K1JG 189 21 9 S B N1VMJ 108 36 3 S B	KA2CDJ 476 23 17 S BC N2DEM 209 16 11 S BC	Northern Florida	6
W2SZ (K1DH,KA1PRT,KC1ZN,WA1ZMS, N2s BNY,GXH,HPA,NQI,XRE,YCA,YZO, WA2s AAU,SCA,SPL,TIF,WB2KMY,	AA2SP (+AA2RS,KA2CKI,KB2KLP,N2s TUK, ULL,WK,WVK)	K4RZB 1,886 66 23 S ABDE KT4AC 1,872 62 26 S ABD	
WA2s AAU,SCA,SPL,TIF,WB2KMY,	140,292 656 162 L ABCD	N4TWX 1,767 52 31 S ABD	East Bay KE6NBN 901 32 17 S BCD
WS2B,WG3I,AK4L,WA8USA,ops) 708,900 1677 255 M ABCD9EFGHIJ	140,292 656 162 L ABCD N2HLT (+KB2s DMK,PVZ,NZMDV,NQ2O,NS9E) 113,724 542 156 L ABCD KE2PM (+AA2VD,KB2JAG,KF2ZN,N2s PBU,PBX,	K5WTA 704 39 16 S ABD	KE6WBL 799 27 17 S BCD
K1FWF (+NET) 2,001 87 23 L AB		N4ATM 616 37 14 S ABD KQ4PI 465 24 15 S ABDE	Los Angeles
2	AA2GV (+KB2OAZ) 20,501 189 83 L ABCD	South Carolina	W6GGV 12,408 189 47 S ABCDE K8BUW 5,600 113 40 S ABDE
Eastern New York	KB2UJG (KB2s CCL.FAF.N2MRE.ops)	KP4XS 49,000 260 140 S ABCD9E	KD6RMS 2.460 86 20 S ABCDE
WA2BAH 38,763 359 73 S ABCD9EFI W3HHN 30,096 311 72 S ABCDE	2,415 51 35 L ABCD	KP4XS 49,000 260 140 S ABCD9E KD4ZMR (+KA4ABW,KD4s TCA,TCB,KE4JNY) 6,125 148 35 L BD	W6IST 1,577 63 19 S ABCD
WB2WHD 25.970 260 70 S ABCDE	3	Southern Florida	KE6MAK 1,110 87 10 S BD W6GAA 630 45 14 S AB
N2MSS 10,416 160 48 S ABCDE N2RDN 6,232 116 41 S ABCDE	Delaware	KD4HJM 1,720 75 20 S BCD W4HAW (KD4s VBI,RJP,KE4s IEJ,YGA,ops)	AC6EN 512 28 16 S ABD W6XS 360 32 9 S BD
WA2KPD 5,936 164 28 S ABCD WM2Y 5,280 141 30 S ABCD WB2MRX 3,612 117 28 S ABD	KB3QM 32,256 210 96 S AB CD 9 E F KB3PD 27,083 215 73 S B CDE	196 28 7 L AB	KE6TOP 72 18 4 S B W6TRW (KD6WYQ.KE6MJU.WA6MPF.ops)
N2NCQ 3,190 93 29 S ABCD	WA3BZT 2,425 89 25 S BD N3KSE 1,343 68 17 S ABD	Tennessee	6,450 153 30 M ABCDE KE6BNL (KE6s CNO,HVH,KLH,MMU,KO6s OL,
KE2III 2 945 95 31 S B		KC4QWZ 38,227 232 127 S ABCD WB4JGG 25,480 201 98 S ABCD	TD.ops) 1,360 52 17 L BDE
N2SQW 2.400 91 24 S ABD	Eastern Pennsylvania		KE6GVQ (+AC6EN)
N2SQW 2,400 91 24 S ABD N2ZOE 2.030 203 10 S B	Eastern Pennsylvania K3GNC 32,619 254 83 S ABCDE	AA4H 16,356 125 87 S ABCD9E N4OYS 3,772 60 41 S ABCDE	812 55 14 L ABD
N2SQW 2,400 91 24 S ABD N2ZOE 2,030 203 10 S B N2FNH 1,984 97 16 S ABCD W2KHO 1 562 53 22 S BDF	K3GNC 32,619 254 83 S ABCDE KB3IB 25,839 191 81 S ABCD9E WA3JUF 5,360 71 40 S BCDEF	N4OYS 3,772 60 41 S ABCDE KA4CHT 680 31 20 S ABD	Orange
N2SQW 2,400 91 24 S ABD N2ZOE 2,030 203 10 S B N2FNH 1,984 97 16 S ABCD W2KHO 1,562 53 22 S BDE WB2OEE 1,425 95 15 S B KA2MCU 1,408 47 16 S ABCD9EFI	K3GNC 32.619 254 83 S ABCDE KB3IB 25.839 191 81 S ABCD9E WA3JUF 5.360 71 40 S BCDEF KB3ZS 5.016 124 33 S ABDE N3JNX 3.560 73 40 S ABD	N4OYS 3,772 60 41 S ABCDE KA4CHT 680 31 20 S ABD AD4F 425 25 17 S AB AE4FW 364 28 13 S B	Orange KG6EG 8,584 187 37 S ABD
N2SGW 2,400 91 24 S ABD N2ZOE 2,030 203 10 S B N2FNH 1,984 97 16 S ABCD W2KHO 1,562 53 22 S BDE WB2OEE 1,425 95 15 S B KA2MCU 1,405 47 16 S ABCD9EFI N2WDL 1,056 75 12 S ABD N2OFH 891 48 11 S ABCD9I	K3GNC 32.619 254 83 S ABCDE KB3IB 25.839 191 81 S ABCD9E WA3JUF 5.360 71 40 S BCDEF KB3ZS 5.016 124 33 S ABDE N3JNX 3.560 73 40 S ABD	N4OYS 3,772 60 41 S ABCDE KA4CHT 680 31 20 S ABD AD4F 425 25 17 S AB AE4FW 364 28 13 S B KE4SKR 145 29 5 S B KD4HIK 112 13 7 S BD	Orange 8,584 187 37 S ABD KD6UIH 8,510 180 37 S ABD WA6FIT 6,262 161 31 S ABCDE
N2SQW 2,400 91 24 S ABD N2ZOE 2,030 203 10 S B N2FNH 1,984 97 16 S ABCD W2KHO 1,562 53 22 S BDE WB2OEE 1,425 95 15 S B KAZMCU 1,408 47 16 S ABCD9EFI N2WDL 1,056 75 12 S ABD N2OFH 891 48 11 S ABCDEI WA2AIR 890 65 10 S B	K3GNC 32.619 254 83 S ABCDE KB3IB 25.839 191 81 S ABCODE WA3,IJF 5.360 71 40 S BCDEF KB3ZS 5.016 124 33 S ABDE N3JNX 3.560 73 40 S ABD NKBQ/3 2.320 116 20 S B N3OGF 792 39 18 S BC W3HOA 768 48 16 S B	N4OYS 3,772 60 41 S ABCDE KA4CHT 680 31 20 S ABD AD4F 425 25 17 S AB AE4FW 364 28 13 S B KE4SKR 145 29 5 S B KD4HIK 112 13 7 S BD KD4JTN (+KD4NOQ)	Orange KG6EG 8.584 187 37 S ABD KD6UIH 8.520 161 31 S ABD WA6FIT 6.262 161 31 S ABCDE KJ6FP 2.950 95 25 S BD K6IBY 2.781 67 27 S ABCD
N2SGW 2,400 91 24 S ABD N2ZOE 2,030 203 10 S B N2FNH 1,984 97 16 S ABCD W2KHO 1,562 53 22 S BDE WB2OEE 1,425 95 15 S B KA2MCU 1,405 47 16 S ABCD9EFI N2WDL 1,056 75 12 S ABD N2OFH 891 48 11 S ABCD9I	K3GNC 32.619 254 83 S ABCDE KB3IB 25.839 191 81 S ABCD9E WA3JUF 5.360 71 40 S BCDEF KB3ZS 5.016 124 33 S ABDE N3JNX 3.560 73 40 S ABD NK8Q/3 2.320 116 20 S B N3QGF 792 99 18 S BC	N4OYS 3,772 60 41 S ABCDE KA4CHT 680 31 20 S ABD AD4F 425 25 17 S AB AE4FW 364 28 13 S B KE4SKR 145 29 5 S B KD4JIN (+KD4NOO)	Orange KG6EG 8.584 187 37 S ABD KD6UIH 8.510 180 37 S ABD WA6FIT 6.262 161 31 S ABCOE KJ6FP 2.950 95 25 S BD

WEPKW 8.400 121 48 S ABCOE K7CW 7.498 131 46 S ABDE KC7GCO 440 55 8 S B KC7FSR 384 46 8 S D *NTNKO 3.930 122 30 Q ABCD *WIZ(+K7ND,KD7TS,NYKS) NTIN (+KQHUM,KATS,TYY,VOL,KC7s ERP, JJZ,KC8V) 4.890 137 30 L ABCD	WD8KHE (+N9CDK)	VE3YHB 1,326 51 26 S B VE3SST 1,100 38 22 S ABCD VE3OIL 884 40 17 S ABCDE VE3GUN 828 46 18 S B VE3EKP 468 26 18 S AB VE3ODX (VE3SRE,pp) 21 8 S BD	D57 -
N75FT 2.232 60 31 \$ ABCD NJ7A 2232 60 31 \$ ABCD NJ7A 36 25 19\$ ABCD 9EF N7MLD 748 36 17 \$ ABD WB7QBC 363 33 11 \$ B KB7TJM 72 12 6 \$ B KB7TPLE 4 2 2 \$ AB Western Washington *KE7SW 15,240 172 60 \$ ABCDE	N9UXP 432 45 8 8 BD KB9II 336 28 12 S AB WB9EBE 56 28 2 S B NEOP/9 1 15 A NBKWX 1,188 48 18 C ABCD W9SZ 1,081 34 23 C BDE N9KJE (+N9s LAG,GKZ) 49,580 267 148 L ABCD N2BJ (+N2CIX)	VESVD 53,535 360 129 S ABC VESWCB 11,713 141 53 S ABDEF VASST 9,128 116 56 S BCD VE3IEY 5,757 71 57 S ABC9E VE3BFM 5,712 74 48 S ABCDEF VE3SXE 4,935 96 47 S ABD VE3URS 4,931 96 47 S ABCD9E	WRØI 1,316 138 83 R 10 ABE K5LLL/R 262 43 16 R 3 AB9 Checklogs KR1R, N2QFH, N2VLA.
KB7PSH 993 34 19 S ABCD9E AA7IH 476 25 14 S ABCDE WA7IQH (+KD6VLR,KE7IK) 1,536 57 24 L ABCD Utah KE7NS 2,460 54 30 S ABCDE	K9LCR 3,312 75 36 S ABC WB9GKA 2,139 56 31 S ABCUP N9WRO 2,079 61 27 S BD N9TOK 177 72 17 S BD N9UIZ 1,242 44 18 S BCD WB9MXX 760 40 19 S AB KE9OL 684 34 18 S ABDE	VE2/SM0DFP 4.218 65 38 S BD9E VE2PIJ 3,048 100 24 Q BD VE2CUA (VE2e DUB, HAK, HKI, SWC, ops) 9,566 100 49 M ABCD9 VE2JWH (+VE2s BLP, MAX, PSU, SBC, VDD) 9,894 160 51 L ABD	393 39 18 R 2 BD Southwestern K6LMN 7,708 197 58 R 2 ABCD KD6DYK 3,071 142 46 R 4 BCD KE6QCB 551 59 23 R 3 BD West Gulf
KB6CO/7 K7ICW 5,537 3,367 99 73 49 S ABCD 37 S ABD Oregon N7YAG 3,564 1,625 81 38 33 S ABCD9E 38 W7PUA 1,625 1,625 38 38 25 S BDEFI	NSSOR 11,395 152 53 S BCDE NSKUW 8,142 157 46 S ABD NSTNY 7,222 125 46 S ABD WDSISG 5,220 95 45 S BD WSJGV 4,746 113 42 S B NSWJ 4,312 124 28 S ABCD WBSQBU 3,672 78 36 S BD	South Dakota W7XU 14,534 138 86 S ABD WB0HHM 2,738 54 37 S ABCD NØQJM 2,280 48 40 S ABD Quebec	Southeastern *AD4DY(+KD40QW) 1,124 83 35 R 4 AB 660 36 24 R 2 BDE K2OY(+KD4IDR)
3,317 87 31 L ABCD Montana W7HAH 1,189 41 29 S AB Nevada	Illinois 180	КОUS 10,011 141 71 S AB КОЗС 9,180 92 68 S BDE КОЗСО 9,180 92 68 S BDE КОЗСО 9,180 92 68 S BDE КОЗСО 9 30 5 ABCDE КОЗСО 9 15 5 ABCDE КОЗСО 9 15 5 ABCDE	N3TUM 1,818 102 63 R 5 BD KB4NVD 909 57 51 R 6 ABCD9E Rocky Mountain KG0ER 146 34 13 R 3 AB
KA7EII 560 49 8 S BD KC7.JEJ 550 39 10 S BD KC7.JEK 504 45 8 S BD KC7.JEG 148 27 4 S BD KC7.JK 130 26 5 S B AB7MB 100 25 4 S B KRBL (+N7NHF)	22.528 207 88 L ABCD WG8T (+WB1FYO, KMS EEO, OHW, NNSTJD) 4.788 93 42 L BD KBKFJ (+K8s JYR,ZJIN) 322 23 14 L B	NØMMU 18,584 166 92 8 ABCD KG0TQ 5,600 100 58 S B NØJEQ 2,450 49 35 S ABDE KB0PRZ 1,150 50 23 S B NØQOJ 532 28 19 S B	Pacific webb (KC6YEY,KD8CYZ,ope) 2,933 114 41 R 2 KM6RH 2,354 120 65 R 5 BCDE NGØX 856 47 43 R 6 ABD Roanoke
Idaho	W3EUH/8 1,260 60 21 S AB NBFMD (+AABLC, KBBS, EUB, FHW, MZ), KCBAJH, KVBS, NBS OKY, UBH, VCF, ZQD, WJBG) 449,888 1142 272 M ABCD9EP NBTLZ (+WABCXI) 78PEK (+N3IWJ)	WBØLJC (EN34) 16 2 2 G FG WDØGNK (KCØP, WØOHU, ops) 629 22 17 L ABDE Missouri AB4CR 48,034 225 146 S ABCD9EF WA0X 18,700 166 100 S ABD	Northwestern AA7VT (+KB7AIL) S9.588 148 83 R 5 ABCDE NW7O 115 28 20 R 6 AB
WB7OHF 616 35 14 \$ ABCD N7GJD 150 25 6 \$ AB Eastern Washington N7AUV 6,615 103 49 \$ ABCDE N7YAP 2,030 60 29 \$ ABD AB7IZ 455 32 13 \$ ABD	West Virginia K2UOP/8 100,632 370 168 S ABCD9EF N8XUR 21,528 213 78 S ABDE N4JQQ 18,096 187 78 S ABD W4PSJ 3,600 100 36 S A	WOAUS 6,372 115 36 S ABCDEGIP WA2HFI/0 5,371 198 41 S ABD NØSRO 3,741 73 43 S ABD WBØLJC 2,600 94 20 S ABDE WØPHD 2,3712 51 34 S ABDE KØJO 1,846 58 21 S ABCDE NØXOH 273 39 7 S B	4.396 183 80 R 6 ABCD9EFI K1DS 3.832 92 41 R 2 ABCD N1ISB 3.432 175 51 R 4 BCD9EFI KD1SE (+NIET) 2.465 85 47 R 3 ABCD9EI NQ1X 1.600 110 38 R 3 ABCD9EI NTRHS 702 48 18 R 2 BCD
KD6PUD (+KC6SBJ,KD6CTZ,KE6JHD) 8,316 168 36 L ABDE 7 Arizona	AABBC (+KB8WFN, NsJMK) 20,825 219 85 L. ABDE WD8DJR (+KB8HLN, WB8s MVR, WYU) 5,236 119 44 L. B K8KRG (KA8VTS, KB8S ITE, PEC, QLZ, SPS, VKG, VMU, N8s OFS, PZD, YPT, WD8IQJ, ops) 2,744 99 28 L. AB	Minnesota *WB9GGM 123,690 420 190 S ABCD9EFI WAØBWE 52,658 270 113 S ABCD9EFG KAØRYT 20,382 187 79 S ABD KBØPYO 12,950 146 70 S ABD WA2VOI 8,160 128 40 S ABCDE	3.272 163 135 R 12 BCDE N4STK 562 37 37 R 8 ABCD9EF KBØSME 23 9 5 R 3 BD New England *N1QVE (+M1QDQ)
KJ6KO 17,580 226 60 S ABCD N6KBX 5,658 138 41 S AB KA6VQV 5,320 117 40 S ABCD KC6ZWT 3,690 88 30 S BD KE6DPV 2,655 80 27 S ABD WA5YWC 2,080 80 26 S AB KD6VNQ 1,932 92 21 S B	N8VET 186 31 6 S A KIBO 140 28 5 S B N8VVZ 112 28 4 S B KCBAWP 20 5 4 S A KBGOBM 7,950 119 53 C ABCD NBLGP 3,312 992 36 C B NBAXA/126 3,255 73 35 C ABCD9E	NØQXC 112 18 7 S B NØØY 60 10 6 Q B KBØPGJ(+KBØTSC,WQØP) KFØM (+NØPDL)7,020 101 52 L BCD KBØTMQ (+NØZHE)960 48 20 L B	N2UZQ 220 33 10 R 2 ABD KD2IX 22 6 5 R 3 BD Midwest AJØE (-KØTLM) N5NIQ (+NØPAL) R 13 ABCD9E
33,879 332 69 M ABCDE N6OBP (+WG3R, KC6PLM, KO68 EC,UW, KA9MNZ) 15,423 214 53 M ABCDE WB6UGG (+KE6CGS, N6JET) 3,886 112 29 L ABD Sacramento Valley	NBPTL 1,196 40 23 \$ BD WABONN 898 31 23 \$ ABCD K9GHL 576 32 18 \$ A NBVKE 496 27 16 \$ ABD NBWHO 435 29 15 \$ A NBZAT 299 19 13 \$ BCD9 AABRR/126 273 15 13 \$ ABCD9E NBWHOTE 198 11 \$ \$ ABCD9E NBWET 198 12 \$ ABCD9E NBWET 198 1	WYØV 247 19 13 S B Kansas NØLL 73,480 307 167 S ABCDE NØFFO 13,725 145 75 S ABDE WYØC 4,494 83 42 S ABCD WBØAKE 1,280 57 20 S BD	AA2AM 3,952 130 60 R 2 AB K2RIW 3,901 120 39 R 3 BDI N2LBT 2,999 97 58 R 4 ABCD9EFGH WB2BEJ 1,120 67 21 R 2 ABCD K2OVS 950 75 38 R 3 AB N2PEO 357 98 11 R 4 B N2UID 304 43 17 R 4 ABD
KA6AMD 7,269 155 37 S ABCD KD6WVL 2,116 92 23 S B N8IFW 720 60 12 S B KE6JTH 280 27 10 S BD KD6IVL 248 31 8 S B KK6KE 580 29 10 Q D WA6YDI (+WA6LUT WB6ITM)	WABRCN 3,840 91 40 S AB KB1SF 2,752 77 32 S BD KEBRO 2,888 84 32 S B KB4TLH 2,294 64 31 S ABD N8VEA 1,612 62 26 S B N8IBW 1,265 42 23 S BD KBBTDP 1,210 55 22 S B NBETD 1,1210 55 22 S B	Iowa WR9G 85,192 322 184 S ABCDE K0DAS 19,007 127 83 S BCD9FF KDØPV 15,300 164 75 S ABD W0YPT 2,040 42 30 S BCDE KDØBT 448 23 43 S BD KDØBT 448 23 43 S BD KDØBT 448 23 43 S BD KDØBT 448 23 24 35 BD KDØBT 448 25 24 35 BD KDØBT 448 45 35 24 35 BD KDØBT 448 45 35 35 35 35 35 35 35	N8FUJ 661 55 49 R 7 ABCD NOBA/R 25 8 R R 3 ABC Hudson KB2NAV(+N2WSW) 5,745 230 98 R 6 ABCD9EHI
WN6W (+AA6CC, KF6ZU) 18,468 234 57 L ABCD AB6QW (+N6GN) 5,187 97 39 L BDE San Joaquin Valley	WA4GPM 30,104 198 106 S ABCDE K8MR 14,764 165 77 S ABD NBBJN 12,648 146 62 S BCD WA8RJF 5,390 105 49 S ABD W1FEZ 4,223 90 41 S BD NBSSH 4,017 103 39 S B	NØIVN KCØRP 4,800 113 32 S ABCDE KCØRP 4,985 66 ED WØKEA 2,240 49 32 S ABCD K7VNUØ 1,419 43 33 S AB KDØDW 297 11 11 S ABCDBEFGI NØYGM 24 4 4 S ABCD	Dakota NØBEL (+KBØNES) 2,343 134 58 R 5 BD Great Lakes WA8NJR 21,747 438 365 R 13 ABCD9EFI
9,947 245 29 L'ABCD San Francisco WABLLY/6 160 15 10 S ABD WABKLK (+AC8DL, KDBLTB, KESHML, WB6AGR, WD6HDY, WB9NJS) 33,900 338 75 L ABDE	MABRLI (+KE4JDW KB8s BSG, SOZ, VLI,YFM, ZAU) 3,045 93 29 L ABD WASTON (+op)1.725 57 25 L BE Ohio KESFD 156.023 500 217 S ABCD9E	W90C/9 (+KB9EQI, M90 AKC,BSH) 206,440 556 260 M ABCD9EF Ø Colorado	AA2GV/R (+KB2OAZ) 372 35 18 R 2 BD Central NØSWV 1,682 45 29 R 4 BD KF9US 1,663 129 86 R 10 ABD
KD8GPJ(+KB8TR,WB8ECI) 1,100 51 20 L ABD San Diego W6PFE 1,001 91 11 S AB N8XIV(+KC6VNA.KO6ET.N7GZA)	WABLKD 2,805 85 33 S B WBWNX 1,700 88 25 S A KBBPNS 1,326 51 26 S AB NBIVW 1,298 59 22 S B NQ8A 1,288 32 23 S ABCD9E NX8J 195 15 13 S B N8PVT (+KC8ALA)	N9TO 1,066 34 26 8 BD N9NDF 782 27 23 8 ABD NØAKC 627 26 19 S ABC N9LIJ 270 30 9 8 B N9PPE 198 22 9 S B KE9QT (EN55) 136 9 8 8 BCD9E WA9LWJ (EN44) 24 8 3 S B	Rovers Atlantic N3KKM (+N3RAL) 7.665 N1NOE 2,132 62 44 R 3 ABCD9EFGM
VOIGNO 1,458 81 188 B KB6NAN 1,170 65 188 A KO6CL 855 38 158 BDE KE6NLL 544 28 16 S ABD KE6TCY (+KB6HRB, KC6UCN, KD6HMN, KE6s KMM, QHR, YDG, YIV, YIV) 39,201 361 73 M ABCDE	NBPJP 14,137 175 67 S ABCD KT7G/M 6,880 130 53 S B NBNOS 6,292 111 52 S ABD NBJTB 5,670 106 45 S ABD KE9QT (EN57) 4,230 61 47 S ABCDE KE9QT (EN58) 4,214 66 48 S ABCDE KE9QT (EN58) 2,414 66 49 S ABCDE	WD9iAB 3,106 59 37 S ABDE WA91_ZM 3,024 84 36 S AB KE90T (EN65) 2,698 49 38 S ABCD9E N9ISN 2,556 71 38 S AB WW1M 2,160 58 30 S ABCD WA9HCZ 1,764 48 28 S ABD W9KHH 1,200 50 24 S B	### Practic Pr
KO6AZ 350 28 10 S ABD *WB2ODH/6 (+N9RM), WA6a DJS, JOX) 169,360 761 180 L ABCD Santa Clara Valley AJ6T 14,996 191 61 S ABCD WSISO 1,530 90 17 S B	Michigan 64,678 312 146 S ABCD9E KUBY 61,633 307 143 S ABCD9E WZBT 56,448 283 144 S ABCDE K2YAZ 41,216 224 128 S ABCDE N8EDQ 21,068 177 92 S ABDE	N9CIQ 20,160 179 90 S ABD WA9LWJ (EN54) WB9VYP 5,547 112 43 S BD N9CZD 4,662 60 42 S BDE WA1UJU/9 4,407 113 39 S B WA9ACI 3,894 83 33 S ABDE	4,680 108 39 L ABD DX Mexico XEZ/NH6ZF 3,132 135 18 S ABD
12,771 284 33 L ABCD Santa Barbara KC6WLC 11,077 150 53 S ABCDE K1FJM 2,625 105 25 S AB KE6FKA 644 39 14 S ABCD	NZERH 300 30 10 S B W7DMD 30 5 S S ABD KB7VAD 15 4 3 S BD 8	N9KZJ (+W9SU) 4,050 76 45 L ABD Wisconsin AA9AO 23,814 169 98 S ABCDE WF9X 21,749 171 91 S ABCDE	### Columbia VETXF 5,125 98 41 S ABDE VETSKA 2,112 84 24 S ABD VETASI 966 38 21 S ABCD VETXO 153 17 9 S AB VETNUT (VETS BEE, EHF, EHC, HPR, RJ, Opps)
N6RPL 456 38 12 S B KE6HGY 438 67 6 S BD WA6RAY 308 25 11 S ABD KE6JPO 260 52 5 S B KE6TYQ 217 29 7 S BD KE6GFI ,070 59 10 Q BD KD6DHB (+KCETMB)	KC7DRR (+KC7DRS) 1.292 62 19 L ABD KC7KFC (WB3DZD,AB7FM,KC7s IBM,JPJ, KW0,KI7YB,ops) 1.090 98 10 L BD Wyoming	NBRZY 3,564 81 44 \$ AB WB9DPB 3,496 63 46 \$ ABCD K9DZE 1,215 39 27 \$ ABCD K9EZ 1,134 32 27 \$ ABCD K9EZ 1,134 32 27 \$ ABCD K9EZ 1,120 28 20 \$ CD NE9O 836 36 19 \$ ABD W9JVF 390 30 13 \$ B	Manitoba VE4ZK 1,420 50 20 S ABDE Alberta VE6TA 270 18 15 S AB
KE6GFF 700 50 7 S D KE6SXD 504 27 14 S ABCDE	KB7N (+N7VMV) 2,125 82 25 L ABD	WB9VIO 18,387 197 81 S ABD AA9LT 12,104 149 68 S ABCD	VE3SAU (VE3s FHN,NPB,OJN,XJX,ops) 9,454 134 58 L ABCD