

Results, 53rd ARRL November Sweepstakes

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Shooting for the sweep is the ultimate goal for the serious contester in this event. Even making the top ten or winning the entire contest is not complete without that satisfying feeling of scratching the last ARRL section off your multiplier check list for the "clean sweep"! Ever since the early days of Sweepstakes, contestants have been trying to accomplish each time out what only a relatively small percentage of participants manage to do each year. If your goal is to work all sections with the least number of contacts, or in the shortest length of time, or just working them while piling up a big score, it still gives you that same satisfying feeling known only to those "who have worked them all." This year, only 15% of the 1594 entries managed to get that "satisfying feeling." On CW,

100 single ops and 9 multiops made a sweep, but only 25 of them did it with low power. On the phone weekend, sweeps were made by 90 single ops and 32 multiops but only 21 on low power. This means that 85% of us will just have to push a little harder next year if we want to join those select few.

Phone remains the most popular mode this year, boasting of 831 entries. Single-op phone entries totaled 725, and the remaining 106 played multiop. Interestingly enough, phone operators seemed to prefer low power to high power (about 60% were low power). Low-power CW, also, remains a favorite among the 701 brass pounders who ran no more than 150 watts during the contest. Out of the 746 logs received for the CW weekend, only 45 entries tried their

luck at multiop.

During the CW weekend, the place to be was Puerto Rico! Randy, K5ZD, was guest op at NP4A, Pedro's super station, and walked away with first-place honors, beating second place K6NA by 27k. Third on the totem pole was K5GO with 165k points. It was East Coast against West Coast for a close battle on the low-power scene, with only 364 points separating first place, K3RR, from second place, KZ6E. N6ND wasn't far off the top mark with nearly 132k points to win third place. Oklahoma multiop K5CM took top honors among the multiop crews by beating Wisconsin's leader, W0AIH/9, by 36k. The W8LT crew took third-place honors while only missing the second place spot by 148 points! What a close battle!

Single Operator Top Ten

CW		Phone	
Call	Score	Call	Score
NP4A (K5ZD,op)	195,656	N6BV	262,108
K6NA	167,980	N2IC	260,480
K5GO	165,760	W7EJ	257,372
N5AU		W5WMU	253,968
(N5RZ,op)	164,428	WS4Q	252,636
N2IC	163,540	NR5M	249,084
VE7CC	163,096	W7WA	243,460
K5RX		K0DD	240,056
(KR0Y,op)	162,800	W3LPL	236,504
K3LR	162,504	(WD4AXM,op)	
N6TR/7	162,208	N5AU	
K0RF	162,060	(WB5VZL,op)	235,616

Low Power Top Ten

CW		Phone	
Call	Score	Call	Score
K3RR	134,976	KE5CV	201,724
KZ6E	134,612	N5DX	
N6ND	132,904	(K5GO,op)	194,620
W2GD	132,756	K5FUV	143,704
KY2P	127,724	WB0IKN	132,312
W2TZ	125,800	W7ZRC	131,572
KB1W	122,056	NT5V	125,800
W0JUR	116,216	K7LXC	124,468
K4XU	115,884	W7YAC	115,048
KV0I	114,912	K0SCM	110,320
		KQ8M	108,624

Multioperator Top Ten

CW		Phone	
Call	Score	Call	Score
K5CM	172,280	K5LZO	267,288
W0AIH/9	135,864	WB8JBM	228,088
W8LT	135,716	K0UK	226,736
W1OD	130,536	K5CM	219,188
KE7C	128,772	W0CEM	216,524
K0WA	126,874	A17B	194,620
K0SR	126,096	K1TO	191,552
K8AQM	120,960	K1NG	190,032
VE3ART	120,672	K5RVK	186,628
W5EHM	112,712	NN7L	183,816

Division Leaders

CW

Division	High Power	Low Power	Multioperator
Atlantic	K3LR	K3RR	NB3I
Canada	VE7CC	VE3VN	VE3ART
Central	K9KM	K9WA	W0AIH/9
Dakota	WA3PWL	K3WT	K0SR
Delta	K5GO	KZ5D	K5MC
Great Lakes	K8CC	KQ8M	W8LT
Hudson	N2NT	W2GD	KT2B
Midwest	K4VX/0 (AH2U)	KV0I	K0WA
New England	K1ZZ	KB1W	W1OD
Northwestern	N6TR/7	W7ZRC	KE7C
Pacific	N6BT (WA6VEF)	W6JT1	WR6O
Roanoke	K4PQL	AA4FF	K4IX
Rocky Mountain	N2IC	W0JUR	KA0QFF
Southeastern	NP4A (K5ZD)	N8GG/4	N4NWT
Southwestern	K6NA	KZ6E	WA6WZO
West Gulf	N5AU (N5RZ)	N5AW	K5CM

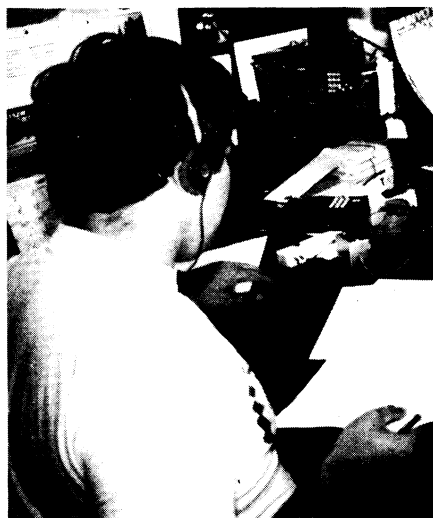
Division Leaders

Phone

Division	High Power	Low Power	Multioperator
Atlantic	W3LPL (WD4AXM)	N3AOE	NM2L
Canada	VE7CC	VE2MS	VE4UM
Central	WB9HAD	AH2U	W0AIH/9
Dakota	K0DD	WA0VQX	—
Delta	W5WMU	N5DX (K5GO)	N4TG
Great Lakes	W8LT (WD8IXE)	KQ8M	WB8JBM
Hudson	KD2RD	KS2G	K5NA
Midwest	K4VX/0 (KM9P)	K0SCM	W0CEM
New England	W1WEF	N1CC	K1TO
Northwestern	W7EJ	W7ZRC	A17B
Pacific	N6BV	W6JT1	W6BIP
Roanoke	N4ZC (N5TR)	K4JEX	KC4DY
Rocky Mountain	N2IC	WB0IKN	K0UK
Southeastern	KV4FV (N6OP)	WC4E	W4AQL
Southwestern	KC7V	W8UQF	KF6OG
West Gulf	WS4Q	KE5CV	K5LZO

Affiliated Club Competition

	Score	Entries	Phone Winner	CW Winner		Score	Entries	Phone Winner	CW Winner
Unlimited Category									
Society of Midwest Contesters	3,967,558	56	K4VX/0 (KM9P,op)	K4VX (AH2U,op)	Salt City DX Assn	572,554	6	K2ZL	K2ZJ
Medium Category									
Mad River Radio Club	3,622,504	36	WB8JBM	K3LR	Utah ARC	546,836	6	W7CFL	W7CFL
North Texas Contest Club	3,500,006	36	N5AU (WB5VZL,op)	N5AU (N5RZ,op)	Central Arizona DX Assn	517,156	6	KC7V	K7OX
Murphy's Marauders	2,807,192	37	W1WEF	K1ZZ	Grand Mesa Contesters	504,284	7	K0UK	KJ0G
Yankee Clipper Contest Club	2,787,906	39	K1VUT	WB4FDT	Eastern Iowa DX Assn	404,264	4	K10JGH	W0EJ
Northern California Contest Club	2,764,492	31	N6BV	N6BT (WA6VEF,op)	Rockford ARA	342,634	7	K9UIY	K9LJN
Potomac Valley Radio Club	2,758,132	38	W3LPL (WD4AXM,op)	KC8C/3	Long Island Mobile ARC	337,092	7	W2SV	K2AU
Minnesota Wireless Assn	2,189,073	32	W0AIH/9	W0AIH/9	Delta DX Assn	336,696	5	KS5M	KS5M
Texas DX Society	2,057,596	16	K5LZO	N5DU	Lincoln ARC	316,612	4	K0SCM	K0SCM
Southern California Contest Club	1,107,750	14	W6UQF	N6TR/7	Rochester (NY) DX Assn	275,870	7	AF2K	W2TZ
Western Washington DX Club	957,062	19	N7TT	N7TT	Northrop Radio Club	252,194	7	W6VPZ	WA6BIL
Frankford Radio Club	875,024	11	N2MM	W2GD	Lynchburg ARC	247,248	5	AA4FF	AA4FF
South Jersey Radio Assn	521,670	23	ND2P	W2LYL	Reading Radio Club	233,224	3	KS3F	KS3F
Radio Club of Tacoma	513,378	14	W7BUN	W7BUN	Penn Wireless Assn	229,600	6	AA3B	AA3B
Motor City RC	495,714	26	K8SB	K8SB	Kingsport ARK	227,133	4	N4TG	N4IR
Central Michigan ARC	284,810	11	KC8LD	W8TJQ	Binghamton ARA	226,780	8	N2CIC	NE2W
Arkansas DX Assn	250,596	3	K5FUV	K5FUV	Utica ARC	216,732	5	NA2A	NA2Q
Warminster ARC	182,009	12	KY3T	WB3EPU	Poughkeepsie ARC	200,760	5	N2BZP	K2TR
San Gabriel Valley RC	132,160	13	W6RBB	N6IBP					(WB2KMY,op)
Local Category									
Rubber Circle Contest Club	1,230,306	10	W7WA	NN7L	Saginaw Valley ARA	200,270	6	NK8Q	K8DO
River City Contesters	1,054,160	10	KV6H	N6IG	Mississippi Valley DX/CC	198,792	3	W0HBH	W0HBH
Overlook Mountain ARC	936,668	10	K5NA	K5NA	Eastern Michigan ARC	196,020	7	N8CQA	KJ8A
Albuquerque DX Assn	662,066	7	N5HH	A19X	Murgas ARC	180,592	6	WB3FAA	KB3JK
Willamette Valley DX Club	621,550	5	A17B	A17B	Fox River Radio League	174,698	4	KC9UM	NJ9C
Kansas City DX Club	605,636	6	KM0L	KB0G	Dixie DXers	165,564	3	K4BAI	K4BAI
Colorado Contest Conspiracy	596,178	7	K0FRP	KC0D	Wichita ARC	164,500	5	N10S	WB0AWP
					Bollingbrook ARS	163,164	6	N09D	—
					OH-KY-IN ARS	159,890	9	K8DHK	N8FU
					Rip Van Winkle ARS	159,518	3	W2DW	KW2D
					Zygo ARC	134,336	6	W1ECH	W1ECH
					West Park Radiops	109,272	5	WD8AJF	W8IDM
					Highland ARA	96,884	5	NS8G	—
					Valley RC of Eugene	86,906	4	K7GDN	K7DBV
					Northern Ohio ARS	81,778	3	N8LL	WA8RCN
					Kettle Moraine Radio				—
					Amateurs	74,468	3	N9KS	N9KS
					Rowan ARS	63,342	5	KJ4TI	—
					Burlington Co Radio Club	57,928	5	K2KED	K2TD
					Western Pennsylvania DX Assn	34,872	3	K3LL	—
					Great South Bay ARC	6,548	3	KD2SX	—



Proper logging technique is shown by K16EZ, while earning 105,696 points.

With more stations to work, scores were a bit higher on the phone weekend. Taking advantage of this was N6BV with 1771 QSOs and 74 sections to take first-place phone. Second-place honors go to N2IC, from Colorado, trailing by only 11 QSOs. W7EJ, with 257,372 points, finished third among the high-power stations. The top 3 on low power looks like a 5-Land pileup. Mike, KE5CV, was the top scorer, followed by N5DX (K5GO, op) second and

Bill, K5FUV, third. It was a runaway by K5LZO and crew as they claimed the top position in the multiop-phone standings. The second and third multiop finishes were closer with only 1332 points separating them. Second goes to WB8JBM with 228,068 points, and third goes to K0UK with 226,736 points.

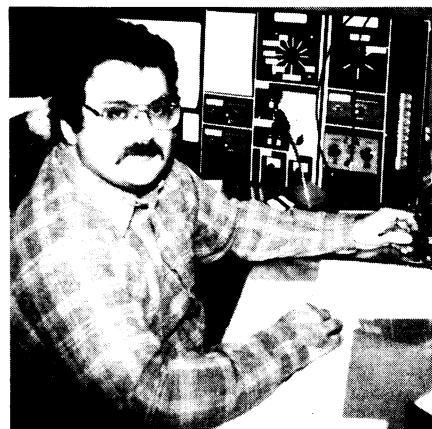
Affiliated Club Competition was as popular as ever, with 64 clubs meeting the minimum requirement of turning in at least 3 logs entries. The only unlimited category entry again this year is the Society of Midwest Contesters with 56 entries and 3,967,558 points. The medium category had 18 different club entries this year. The Mad River Radio Club moved up from 8th place last year to win the medium-club gavel for 1986. The local category was the favorite club competition class, with 45 local clubs competing for the gavel. The Rubber Circle Contest Club improved their total score this year by 200,000 points to take first place again in '86. If your club did not make the listing, check the "Club Competition Rules and Contest Disqualification Criteria," which appears in January QST, to see what criteria your club must meet to be eligible in 1987.

SOAPBOX

CW

Good conditions this year; 15 meters was great for KL and KHS! (WB1CNM). I had so much fun during the Sweepstakes. It was an experience especially because it was my first contest! (KB2AOE). Does having four Norwegian Elk-

hounds lending moral support force me into the multi-op category? (KT2D). Once again, I see the super speedsters running away with the SS, but this time my computer kept right up with them (WB2DIN). Just for fun—good to see some old, familiar calls (W2MTA). Entire operation was mobile. In general it was a "hoot"! Never thought a trip to Charlotte, NC would go so fast. Thanks to all for "riding" along with me (W3HDDH). I felt the amount of CW activity is decreasing. I am not sure if this may be due to the low sunspot cycle or less interest in the CW mode. I did okay the first half of the contest but it sure got hungry toward the end (K4LTA). Hard to excel when TR relay sticks while exchange coming back! (WD4ELJ). It seems to me that on CW we are in great need of a "Q" signal which means "already worked."



During his 24-hour stint at the helm of KY1H, former HQ staffer AK4L logged 779 Qs, for a total of 113,734 points, on the CW weekend.

Maybe "QAW," if it's not already taken (K5RF). I seriously doubt whether computers will replace a fast pencil and a reasonably agile mind in doing the paperwork for this contest (W6SZN). A plethora of South Dakota stations! Also, many thanks to VE8AW for allowing me to breathe again. So good to see 21-MHz activity once again (K9UIY). I would like to see a category for QRP operation in future SS (WB9TBU). Enjoyed the contest very much. Forty meters was in great shape. Being a newer ham, it's nice to be able to work 45 states on 40-meters in 13 hours (ND9X). With one antenna (40-meter loop at 25 feet) and low power, managed to work all US sections except VT. Just wanted to have fun and see what low power and no beam could do, all without calling "CQ SS" (W0AWP). With two complete kW stations at my fingertips, I don't know why my score was down this year! (KM0L). Please schedule more contests during the winter so I'll have something to do when the weather is 35 below zero! (KK0Q). Super... best yet! Worked OR, RI and

SCV, in that order, on 15 meters—Wow! (VE1BEI). It's pretty hard to run up a decent score with a precocious 3-year-old son demanding equal "bee-dee-lee-bee-dee" time with the keyer (VE3CUI).

Phone

All in all, Sweepstakes remains my favorite contest. Next year I'm going for some power so I can compete with the "powerhouses" (WB2ROV). Why do all of the calls seem to sound alike at 4 in the morning? (WB3JFS). My contest activity limited; XYL expecting "bundle of joy"! (NX4N). I've never worked a contest before this one, but will enter the 10 meter one next (WD5COS). Why couldn't BV2B call me in a DX contest instead of SS?! (NN5E). I was glad to see that courtesy is not dead on the ham bands. Several times I heard contestants take the valuable time out to patiently explain the contest to others who were not aware of what was going on (K5EQ). As usual, a lot of fun, but those

guys are still saying "TNX OM!" (KA6V, YL). Upgrading from General to Extra license since last year's SS made a big difference in my making more contacts (WA6GDS). Being in Wyoming is like running "B" power level when it comes to remaining at a frequency. The big pile-up tends to hold your frequency for you (K7MM). Great contest! Made 267 QSOs from my apartment QTH using only a G5RV antenna (KA0XN). Where were all the VEs? I heard only two (N0HJZ).

FEEDBACK

Please refer to May 1986 QST, pp 80-85, for the following corrections. KR0Y should have been listed as the operator of K4VX, the number 2 US CW winner. WD8IXE was the winner in the high power, CW category. K5KJ was an operator at K5RR, Northern Texas multioperator winner. W8EGI should have been listed with the following line score: 19,500-150-65-8-A.

Scores

CW scores are listed first, followed by phone. Within each call area, scores are listed by ARRL sections. Within each section, single operator scores are listed first in descending numerical order, followed by multioperator scores. Each line score lists call sign, final score, number of QSOs, number of sections worked, hours operated and output power used (A = 150 watts or less, B = more than 150 watts). Example: in Connecticut, K1ZZ worked 967 stations in 73 sections for a final score of 141,182 points. He operated for 24 hours and used more than 150 watts.

CW 1	New Hampshire				WA2ASQ				29,640	228	65-14-A	W3ADE				30,628	247	62-15-A	NK4Q				43,594	307	71-22-A					
	KM1C (W1PH,op)				W2KWW				26,496	207	64-A	KB3JK				28,350	225	63-13-B	K4JEX				27,648	216	64-5-A					
					W2T				21,900	200	54-10-A	KY3M				27,376	238	58-11-A	W3HDH/M				8	2	2-1-A					
	K1TR				111,890	765	73-21-A	K2BJA				19,152	171	56-13-A	KB3T				23,780	198	60-12-A	Northern Florida								
	WA1GBB				72,000	500	72-24-A	WA2UDT				9,532	112	43-A	KB3GL				14,080	128	55-12-A	N4WWW (K8LUZ,op)								
	KB1T				39,744	288	69-13-B	N2FVP				2,000	40	25-11-A	W3VPW				13,356	128	53-13-A									
	K1E				37,940	271	70-11-A	WB2HJW				1,472	46	16-5-B	N3CZB				10,600	100	53-10-A									
	K1DG				14,522	137	63-2-B	KT2B (+KD2I,W2HWG,WA2VUN, WB2aTSY,WIK)				101,530	715	71-24-B	KU3A				9,800	100	48-8-A	NAEEB								
	KB1PZ				3,876	57	34-12-A								N3DRM				7,400	100	37-11-A	WC4E								
	AC1J				800	25	16-2-A								AG3G				4,788	63	38-3-A	KD1U								
				Rhode Island				Southern New Jersey				K3ESJ				4,290	65	33-13-A	NX4N											
				K1IU				122,248	826	74-23-B	N2MM				124,912	844	74-21-B	KA3LW				3,300	55	30-13-A	K4JWH					
				KM1X				102,096	709	72-22-B	W2LYL				78,336	544	72-18-A	W3ATQJ				2,142	51	21-5-A	N4NWT (+N4OMG)					
				K9SB/I				48,888	388	63-18-B	WA2LBT				53,130	385	69-21-A	NB3I (+N3BNA)				85,839	608	71-24-B	8,604					
				K1VSJ				41,138	307	67-15-A	W2EA				41,344	304	68-16-A	K3WW (+NET)				63,344	428	74-15-B	South Carolina					
				K1DS				23,954	203	59-8-A	W2PAU				37,808	278	68-10-B	W3FV (+NET)				58,808	398	74-14-B	W9LO					
				W1RFO				9,800	70	70-8-A	WB2DIN				33,924	257	66-16-B								75,880					
				K2MN				2,856	51	28-3-A	WB2QNH				21,546	189	57-6-B	Maryland-DC							30,378					
				N1EIA				640	20	16-13-A	W3ELJ				13,728	132	52-11-A	KC8C/3				139,860	945	74-24-B	Southern Florida					
				Vermont								K2HPV				12,750	125	51-5-A	K3NA				126,238	889	71-21-B	K1ZX				
				W3SOH				50,700	390	65-16-B	K2KED (WB2YOF,op)				10,672	116	46-8-A	K3ZZ				114,594	807	71-24-B	NBGG4					
				NB1A				16,390	149	55-18-A	K2TD				9,720	162	30-3-B	K3SA				102,268	901	74-20-B	WD4AHZ					
				Western Massachusetts								K2MSM				7,728	92	42-13-A	K3HPG				67,392	468	72-14-A	K1SSH				
				KB1W				122,056	836	73-24-A	NA2GDW				6,396	78	41-15-A	W3GN				59,328	412	72-14-B	K4XB					
				KY1H (AK4L,op)				113,734	779	73-24-B	ND2P				5,544	77	36-8-B	W3AZ				55,720	398	70-17-B	KW1K					
				KZ1M				78,960	564	70-24-A	K2LOO				1,880	35	24-9-A	K3NS				42,980	307	70-7-A	N4GVT					
				KA1T				78,880	562	70-23-A								ND3C				37,400	275	66-16-A	AA4RO					
				N1XZ (+WA1VEI,KB2R,N3BAO)				61,116	463	66-23-B	Western New York							W3EE				35,960	290	62-14-A	K04D					
				KA1KPH (+NC1B)				57,546	417	69-19-B	W2TZ				125,800	850	74-23-A	K3TM				26,062	207	63-5-A	Tennessee					
				2								K2ZJ				112,184	758	74-22-B	W3TFA				19,200	180	60-24-A	NAZZ				
				Eastern New York								NM2L				111,592	754	74-24-B	N3AM				5,880	121	49-2-B	K4LTA				
				N2NT				152,884	1033	74-24-B	K2KWR				77,256	522	74-11-B	WA3VPL				5,082	77	33-3-A	AA4DO					
				K5NA				132,904	898	74-24-B	NE2W				54,120	410	68-18-A	W3EAX (KA1GD,KA3FTJ,NJ,KC3XH,op)				15,068	153	51-11-A	K3CQ					
				W2XL				97,090	865	73-22-B	WA2EYA				49,504	384	68-22-A	WB3JRU (+KC3AJ)				6,888	82	42-3-A	K4OAO					
				KU2Q				93,878	843	73-24-B	NA2Q				48,434	327	71-11-A								N4IR					
				NJ2L				61,780	580	73-24-A	WB2VU/2				40,040	286	70-10-A								AA4MN					
				K2TR (WB2KMY,op)				65,282	447	73-11-B	NR2E				33,670	259	65-17-A	Western Pennsylvania							AA4DL					
				W2DW				60,680	410	74-12-B	K2QR				2,352	42	28-1-A	K3LR				162,504	1098	74-24-B	W4FLW					
				K2HA				43,112	317	68-20-A	W2MTA				1,684	32	26-1-A	K3VK				91,688	628	73-23-A	N4TG					
				AA2Y				22,420	190	59-8-A	K2UC				1,320	33	20-2-A	W3IA				42,180	310	68-24-A	K4XO					
				W2NRD				20,580	147	70-17-A	KW2J (+W2IMO)				74,934	543	69-24-A	W3WC				37,630	266	71-15-A	Virginia					
				N2FZJ				14,278	121	59-20-A								K3UA				13,700	137	50-2-B	AA4FF					
				KB2AOE				11,844	126	47-11-A								W3HDH/M				4,818	73	33-2-A	W4YE					
				KW2D (+KC2KK)				73,008	507	72-20-A	3								K3TUP (+N3BJ)				70,590	543	65-15-B	W9LT4				
				W2ARQ (+W2PKY)				63,504	441	72-24-B	Delaware								4								N3OS			
				WA2UKP (+WA2JQK)				37,520	280	67-22-B	K3WUW				87,408	807	72-17-B	Alabama								K8EI				
				NYC-Long Island								N8NA				61,344	426	72-13-A	W24F				159,248	1076	74-24-B	K4PFF				
				K2AU				105,552	733	72-21-B	WB3NX				48,248	326	74-13-A	W4NTI				40,200	300	67-18-A	K2NA					
				K2RD				105,524	713	74-24-B	K3HBP				29,304	222	66-12-A	Georgia								W3Y1				
				K2SX				74,016	514	72-10-B	KQSG				12,240	240	51-9-B	KB4GID				111,296	752	74-24-B	W4DELJ					
				W2DUN				31,880	270	59-15-A								AA4LR				15,498	149	52-21-A	W4RX					
				W2KTF				22,320	186	60-8-A	Eastern Pennsylvania								ND1J				1,568	28	26-7-A	W4ZC				
				W2DX				16,500	150	55-7-B	K3RR				134,976	912	74-19-A	AA4GA				1,500	30	25-2-A	W4JHY					
				K2HVN				8,100	81	50-4-A	AA3B				91,584	836	72-19-B	Kentucky								W3HDH/M				
				Northern New Jersey								K3IPK				69,828	508	69-24-B	N4TY				128,016	889	72-24-B	K4TM				
				W2RQ				149,776	1012	74-24-B	K3SF				66,640	478	70-16-B	N4FU				105,376	712	74-22-B	K4DH					
				W2GD				132,756	897	74-23-A	N2EY				65,552	482	68-21-A	WB4FOT				88,184	804	73-24-A	K4IX					
				KY2P				127,724	863	74-24-A	WA3JLD				62,100	450	69-19-A	WM4T				85,100	575	74-18-B	West Indies					
				K8D/2				84,096	584	72-24-B	N6CQ/3				45,580	340	67-11-B	KF4AV				39,390	303	65-11-A	NP4A (K5ZD,op)					
				KY2H				71,540	511	70-22-A	W3MVP				39,390	303	65-15-A	K4QJ				14,900	149	50-11-A	196,656					
				KT2D				40,832	319	64-17-A	WB3EPU				36,790	283	65-18-A	K4RX				4	2	1-1-A	Arkansas					
				Maine								K3M				36,050	515	70-21-A	North Carolina								K5GO			
				KX1E				59,976	441	68-20-A	N3DPF				33,824	302	55-15-A	K4PQL				130,086	891	73-24-B	K5JH					
				W4ERT/I				47,188	352	67-21-A	K3TX				32,940	270	61-9-B	WA2TBA				115,920	806	72-23-B	K5GDU					
				KA1OR				40,200	300	67-20-B	W3DYA				30,828	247	62-17-A								4,080					
				W1HHV				35,484	286	62-13-A															1,040					
				W9KDR/I				27,080	205	66-14-A															20					
				K1MZB				17,199	237	63-12-A															34-5-A					

K5FUV	72-	6-	6-1-A	W6OES	7,128-	81-	44-16-A	K7ABV	31,024-	277-	56-8-B	WB8RTJ	44,784-	311-	72-17-A	K8FRP	86,800-	620-	70-19-A
Louisiana				W6VRK	2,000-	40-	25-4-A	N7BGR	13,824-	128-	54-13-A	N8FU	43,920-	305-	72-13-A	W1XE	82,944-	576-	72-24-A
W5WMU	161,320-	1090-	74- -B	W6WFP	1,680-	40-	21-8-A	K7ALKH	8,400-	100-	42-17-A	WB8LJ	41,400-	300-	69-13-A	W2VF	81,420-	590-	72-24-A
KZSD	88,948-	801-	74-20-A	N8ME (+ N6DWR, K8RUB, W8TCO, W8U9B)	60,416-	472-	64-24-A	W7LR	198-	11-	9-1-A	W8PN	40,260-	305-	66-14-A	N8WK	57,620-	430-	67-22-A
W5CD	87,764-	593-	74-24-A	Orange				N7FP	149,628-	1011-	74-24-B	K8MR	30,870-	245-	63-5-B	KD6ZR	50,256-	349-	72-21-A
KSSM	73,296-	509-	72-24-A	KZBE	134,612-	922-	73-21-A	N7K7	22,398-	193-	58-5-A	K1FR	25,992-	228-	57-5-A	K8RU	48,580-	347-	70-14-A
NTSG	53,820-	900-	69-22-A	N8PE	86,832-	603-	72-19-A	N6TRV7	182,208-	1098-	74-24-B	W8MVN	25,074-	199-	63-10-B	N8CM	12,954-	127-	51-4-A
K8BER/5	7,740-	30-	43-4-A	WBHAL	41,340-	318-	65-13-A	A17B	156,362-	1078-	74-24-B	NWAG	13,952-	218-	57-12-A	WBETT	10,192-	104-	49-3-A
K5MC (+ W6SN, W5EW)	12,274-	769-	73-24-B	NX8M	24,192-	189-	64-20-A	K5MM/7	155,400-	1050-	74-22-B	W8RCN	11,750-	125-	47-5-A	K9MWM	5,538-	171-	39-8-B
				W6SX	5,576-	68-	41-2-A	W7YAQ	104,400-	725-	72-24-A	AFBC	9,792-	102-	48-7-A	K1BJ	5,092-	67-	38-4-A
				W6GFR	2,240-	40-	28-7-A	K7KJM	102,584-	693-	74-24-B	K8ZRH	7,548-	102-	37-8-A	K8QFF (+ K8LMD)	17,584-	157-	56-20-A
				W6WZU (K8BFH, KD7EY, ope)	84,800-	450-	72-18-A	K7DBV	51,100-	365-	70-19-A	W8AJF	6,580-	80-	41-14-A				
				KF8OG (+ W6AOWM)	47,744-	373-	64-15-B	W7ATCC	24,830-	191-	65-15-A	W8VZE	178-	11-	8-1-A				
								W7UFJ	13,348-	142-	47-15-A	W8LTL (KU8E, KD8NS, NZ4K, ope)	135,716-	917-	74-24-B	Iowa			
								K7GDN	10,584-	108-	49-9-A	WB8SMC (K8AOGF, N8B HBI, HTJ, NK8B, NR8C, WB8QVC, WD8PWG, ope)	67,248-	467-	72-23-A	W8EJ	136,900-	925-	74-24-B
								K7OLK	4,200-	60-	35-21-A				K8FH	94,572-	666-	71-16-B	
								Utah							W8GVVY	67,592-	497-	68-23-B	
								W7CFL	104,244-	714-	73-24-B				N8UQ	51,890-	365-	71-21-A	
								NR7T	19,784-	183-	54-4-B				W8JTC	8,080-	101-	40-6-A	
								K7CU	3,300-	50-	33-3-A								
								N7HJ	178-	11-	8-2-A								
								Washington											
								W7WA	161,912-	1084-	74-24-B								
								N7TT	129,944-	878-	74-24-B								
								K7QO	113,812-	768-	74-22-B								
								K7HBN	104,544-	726-	72-24-A								
								W7BUN	100,048-	678-	74-21-B								
								K7RG	90,720-	630-	72-19-B								
								NG7P	72,312-	524-	69-24-A								
								N7L7	70,176-	516-	68-12-B								
								W7LKG	68,586-	483-	71-22-B								
								W7NG	57,226-	403-	71-19-B								
								K7LXC	53,312-	392-	68-12-A								
								K7WA	49,980-	357-	70-15-A								
								N7GJ	47,056-	346-	68-22-A								
								N7DM	38,016-	288-	66-16-A								
								N8CHU	19,942-	169-	59-16-A								
								W7UJ	16,808-	173-	48-9-A								
								K7TG	14,040-	130-	54-2-A								
								K7SS	10,952-	74-	74-8-A								
								W7BYK	7,896-	99-	47-7-A								
								N5JB	7,812-	93-	42-8-A								
								N7EPD	1,026-	27-	19-2-A								
								KE7C (+ K071, W87QJ)	128,772-	882-	73-24-B								
								W7DK (K7ASBJ, KE7LE, KD7QJ, KG7V, N7EPD, NK7E, W6PBL, W87WPG, ope)	62,376-	452-	69-24-A								
								Wyoming											
								K7MM	82,844-	582-	71-23-A								
								W7WAI	50,116-	374-	67-17-A								
								K7ZV	12,296-	116-	53-11-A								
								N7GVV	5,826-	67-	42-12-A								
								8											
								Michigan											
								K8CC	151,848-	1028-	74-24-B								
								W8RRR	113,296-	778-	73-21-B								
								K8MW	97,828-	661-	74-24-A								
								W8LPH	82,360-	590-	71-24-A								
								K8DO	76,964-	642-	71-24-A								
								W8TJQ	76,796-	628-	73-22-A								
								K8SB	75,118-	629-	71-24-A								
								W8WPC	74,022-	607-	73-22-A								
								W8GM	63,072-	438-	72-23-B								
								K8JA	61,184-	478-	64-17-A								
								K8RJD	52,080-	372-	70-20-A								
								K8JM	51,456-	384-	67-11-B								
								K8JIA	48,576-	352-	69-11-A								
								K8CV	46,820-	370-	63-14-A								
								W8BAAX	38,500-	275-	70-13-B								
								N8COA	37,092-	281-	66-14-A								
								K8SAK	33,930-	261-	65-19-A								
								K8DD	32,896-	244-	67-4-B								
								W8BBDP	32,340-	245-	66-14-A								
								W8BYPY	30,880-	236-	65-18-A								
								AC8W	27,450-	225-	61-7-A								
								W8AZDT	19,580-	178-	55-8-B								
								NK8Q	18,512-	178-	52-8-A								
								K8OT	13,568-	139-	57-6-B								
								W8EGI	13,224-	116-	57-7-A								
								K8AP	12,932-	122-	53-5-A								
								W8VWY	12,784-	138-	47-6-A								
								K8VDS	10,584-	108-	49-11-A								
								W8SS	9,990-	111-	45-12-A								
								K8AQM (+ KN8R, N18L, W8IQ, WD8JNF)	120,960-	840-	72-24-B								
								W8CSO (+ A8SM)	61,480-	439-	70-16-B								
								W8MRM (K8AEGC, K8BGC, N8HNS, N8SF, W8FRD, W8BAFO, WD8KZ, K2X, ope)	19,008-	176-	54-20-A								
								Ohio											
								K8AZ (K8NZ, op)	139,880-	945-	74-24-B								
								W8LXE	133,348-	901-	74-24-B								
								W8LNO	132,880-	910-	73-23-B								
								W8FN	121,380-	820-	74-22-B								
								K8QM	102,528-	712-	72-24-A								
								K8BL	97,920-	680-	72-19-A								
								K8VQ	93,240-	630-	74-24-A								
								N8BJQ	90,440-	646-	70-24-B								
								W8RSW	84,672-	588-	72-24-B								
								W8MAZ	64,998-	471-	69-13-B								
								W8BJJ	63,700-	455-	70-17-A								
								W8UPH	60,520-	445-	68-21-A								
								N8BV	52,904-	389-	68-15-B								
								W8IDM	47,736-	351-	68-18-A								
								Idaho											
								K7OD	134,010-	905-	74-22-B								
								W7ZRC	108,624-	744-	73-24-A								
								N7LJM	91,250-	825-	73-24-A								
								K7TA	29,646-	243-	61-10-A			</					

VE3OMU	4,740- 79- 30-10-A	K1DG	18,550- 175- 53- 2-B	W2LKB	216- 12- 9- 1-A	Kentucky		K13L	23,256- 204- 57- 3-B
VE3ART (VE3s ABG,DAO,GAS,QB,VEBCC,ops)	120,672-1676- 74-21-B	AC1J	11,176- 127- 44- 5-A	Western New York		N4DY	180,456-1236- 73-24-B	N5EPA	16,874- 143- 59- 4-A
VE3ZAP (VE3s DCM,DOW,FAS,FJG,GSQ,KPF,XOD,MTB,ops)	83,638- 589- 71-20-B	K1TH	6,300- 75- 42- 4-A	K2ZL	140,748- 951- 74-22-B	AA4RX	158,212-1069- 74-21-B	KTSX	9,090- 101- 45- 2-B
		K1TR	3,782- 61- 31- 3-A	AJ3K	105,412- 722- 73-24-B	WB4FDK	45,360- 324- 70-22-B	K7UP	2,800- 50- 28- 1-A
		W2UP	2,728- 44- 31- 1-A	AF2K	75,168- 522- 72-22-B	KB4SRE	45,114- 309- 74-13-A	N5HH (+K5QQ)	161,616-1092- 74-24-B
		KC1F	18- 3- 3- 1-B	NA2A	48,306- 331- 73-13-B	KB4AMA	36,036- 273- 66-20-A		
Alberta		Rhode Island		W2FXA	47,600- 680- 70-17-B	K4DC	14,872- 143- 52- 4-B	Northern Texas	
VE8OZ	50,292- 361- 66-17-A	K1IU	107,618- 748- 72-21-B	N2CIC	45,440- 355- 64-13-A	K4FU	10,952- 74- 7- 9-B	N5AU (WB5VZL,op)	235,616-1597- 74-24-B
VE8MI	15,660- 145- 54-11-A	K9SB/1	93,432- 687- 68-22-B	W2MTA	33,150- 255- 65-22-A	KF4AV	216- 12- 9- 1-A	K5RR (N5RZ, op)	228,660-1545- 74-24-B
British Columbia		KM1X	85,260- 609- 70-17-B	NM2J	30,056- 221- 68- 8-B	North Carolina		K5RX	225,996-1527- 74-24-B
VE7CC	163,096-1102- 74-24-B	K1VSV	76,464- 531- 72-18-B	NE2W	32,262- 283- 57-14-A	N4ZC (N5TR,op)	201,576-1362- 74-24-B	K5SCV	201,724-1363- 74-24-A
VE7YU	46,060- 329- 70-18-A	K2MN	16,854- 159- 53- 8-A	KB2NU	28,784- 257- 56-17-A	K4JEX	82,490- 565- 73-15-A	K5NW	186,332-1259- 74-23-B
VE7Q	29,480- 220- 67- -B	K4IMP	14,994- 147- 51-16-A	W2PDX	26,344- 178- 74-17-B	K4JTI	30,096- 228- 66-19-A	NTSV	125,800- 850- 74-22-A
VE7KGW	8,288- 148- 56-24-A	K2IA	8,190- 105- 39- 5-A	NA2Q	23,580- 190- 62- 7-A	K4QDEN	10,822- 113- 47-16-A	K5KJ	87,024- 589- 74-11-A
VE7EKS	1,760- 40- 22-12-A	N1EIA	4,480- 70- 32-14-A	KD2PC	21,708- 201- 54-14-A	AF9D	8,880- 70- 62- 8-A	N5UA	83,472- 564- 74-17-B
Yukon-NWT		K1NG (+K1G)		N2FGE	19,560- 163- 60-17-A	WB4AQK	7,980- 95- 42- 7-A	K5DX	78,866- 557- 69-14-B
VE8GD	16,047- 141- 57-13-A		190,032-1284- 74-24-B	KB2DM	18,590- 143- 65-10-B	NA4UH	5,964- 71- 42- 1-B	N5JB	69,438- 489- 71-12-A
		Vermont		W2TZ	10,412- 137- 38- 3-A	W4ZTA	4,950- 75- 33- 1-B	N5RM	68,616- 464- 72-13-B
		KB1GQR	181,770-1245- 73-24-B	K2UC	7,600- 100- 38- 5-A	Northern Florida		N5SE	55,334- 379- 73-11-B
		W3SOH	33,360- 278- 60-12-A	NK2H	7,332- 78- 47- 4-B	NAEEB	206,152-1412- 73-24-B	K5MR	49,632- 378- 66-12-A
		KD2EN/1	24,552- 198- 62-19-A	W2HG	7,140- 102- 35- 2-B	W4WKQ	72,562- 487- 73-16-B	W5LGM	42,842- 309- 69-18-B
		NB1A	10,810- 115- 47- 9-A	N2WK	4,590- 51- 45- 7-B	WC4E	68,524- 463- 74-12-A	NSIWA	40,040- 268- 70-21-A
		K2QI/1 (K2OZV,KB2NV,KK2B,W4IMAG,WA2AZA,WB2PYU,ops)	71,284- 502- 71-21-B	K2YFP	286- 13- 11- 2-A	KX4N	23,316- 201- 58- 5-A	N5CR	28,518- 291- 49- 3-B
		Western Massachusetts		NM2L (+K2N1L,KC2RN,N2EGK,NQ2I,W2TQF,WB2S,WBU,WMB)	98,864- 668- 74-24-B	KD1U	19,320- 161- 60-14-A	K7CW	27,468- 218- 63-24-A
		K1RQ (WA1ZAM,op)		3		NA4WT	12,820- 121- 53-13-A	K4SW	21,824- 176- 62- 4-A
		KY1H	98,988- 678- 73-24-B	Delaware		AA4WE	930- 31- 15- 6-A	W5BM	18,000- 150- 80- 5-A
		K2IM	51,952- 382- 68-20-A	K3WUW	95,708- 674- 71-18-B	South Carolina		K5PU	11,200- 112- 50-10-A
		WA1HFF	29,646- 243- 61-17-A	W3NX	28,000- 200- 65-10-A	WB4GME	42,090- 345- 61-15-B	K5EQ	3,896- 66- 28- 7-A
		KB1RI	28,060- 230- 61-15-A	NBNA/3	25,752- 222- 58- 6-A	W5OKU/4	21,384- 162- 66- 6-A	W5AL	476- 17- 14- 1-B
		N1DMU	13,674- 129- 53- 5-A	ACST (KA3B,op)		South Florida		W5ONL	96- 8- 6- 1-A
		WB1EYL (+K5IN)		Eastern Pennsylvania		K1ZX	151,256-1036- 73-17-B	NAQS (+K80Y)	142,820- 965- 74-22-B
		N1XZ (+N3BAO,WA1VEI)		KB3F	154,656-1074- 72-20-B	W4ZMZ	28,112- 251- 56- 7-B	W5AH (+K5MX)	102,200- 700- 73-24-B
		W1YX (KA1s ODA,OGH,KB1YB,KM1P,N1DXG,NA1Q,NE1Q,NJ2Q,WA1NVS,ops)		KB3FAA	75,040- 536- 70-15-B	KOAJ	28,398- 199- 67-16-B	WDSJ (+W05W)	71,808- 544- 66-24-A
		KA1KPH (+N1CB)		KB3VJ	55,232- 395- 61-20-A	KW1K	16,740- 155- 54-10-A	Oklahoma	
		KA1NYD (+N1EIN)		AA3B	40,300- 326- 62- 8-B	WK4F	9,248- 68- 68- 8-B	KM5H	87,840- 610- 72-19-A
				AEST	40,180- 287- 70- 8-A	K9OCU	3,564- 54- 33- 7-A	KB5ZO	23,346- 189- 62- 9-A
				KY3T	35,376- 268- 66-16-B	Tennessee		W5SOM	19,372- 167- 58-17-A
				W3FV (+NET)	35,052- 254- 69-13-B	NAZZ	214,304-1448- 74-24-B	WK5P	13,420- 122- 55- 6-A
				N3ESI (N3ESJ,op)		AA4DO	48,096- 334- 72-18-A	N5HIB	8,560- 95- 45- 7-A
				W3MIKE	30,500- 250- 61-22-A	AA4MN	37,940- 271- 70- 9-B	W5SCS	3,640- 65- 28- 5-B
				K3PKN	30,492- 242- 63-10-A	W4AY (WA4ZU, op)	13,224- 228- 58- 6-A	K5CM (+N5s CG,KW)	219,188-1481- 74-24-B
				K3TX	30,000- 250- 60-15-A	W4FLW	10,028- 109- 46- 6-A	WCSC (+KF5FM)	85,200- 600- 71-23-B
				KB3JK	25,800- 215- 60-12-B	KB4EX	8,064- 98- 42-10-B	Southern Texas	
				WB3EPU	23,600- 200- 59-12-A	N4TG (+N4OHV)		W5AQ	252,636-1707- 74-24-B
				K23X	23,424- 192- 61- 9-A	KB4FHE (+K4TSV,NA4Y)	33,672- 244- 69-10-B	NR5M	249,084-1683- 74-24-B
				N3CHL	22,002- 217- 53-11-B	Virginia		KE5FI	186,036-1257- 74-24-B
				KC3ZG	15,600- 150- 52-24-A	KX3Q	180,856-1222- 74-24-B	KG5U	183,224-1238- 74-24-B
				WB3AAK	11,928- 142- 62- 8-A	N3JT	149,628-1011- 74-21-B	K5GB	111,690- 765- 73-14-B
				K3WW	10,952- 74- 74-12-B	K3ZJ	136,900- 925- 74-16-B	K5CP	76,516- 517- 74-24-B
				KA3LCF	10,682- 109- 49-12-B	W3YV	80,216- 542- 74- 7-B	K5RF	68,256- 474- 72-22-A
				KA3OZA	10,578- 123- 43-17-B	AA4FF	72,432- 503- 72-20-B	W5AAM	65,664- 513- 64-19-B
				W3KOK	10,322- 126- 41-13-A	AB4ST	56,700- 405- 70-17-A	W5LXG	30,600- 225- 66- 8-A
				W3RCL	7,440- 93- 40- 9-A	W4ACR	51,520- 389- 70-22-A	W5XD	26,040- 210- 62-11-A
				W3ATQJ	4,536- 63- 36- 3-B	AA4UJ	48,300- 350- 69-12-B	KN5H	22,016- 172- 64- 6-B
				KA3BBU	3,702- 63- 27- 8-B	KX4V	43,808- 298- 74-11-A	W5GBX	21,240- 180- 59-15-B
				W3LGG	2,900- 50- 29- 9-A	WD4ELJ	31,416- 231- 66- 9-B	W5UFA	13,936- 134- 52-14-B
				K3UA	1,412- 34- 19- 3-A	W9L7/4	28,050- 275- 51- 6-A	W5NR	7,476- 89- 42- 8-A
				N3CZB	1,232- 28- 22- 4-A	W4JLS	22,320- 180- 62-12-A	N5ZR	1,152- 32- 18- 3-A
				KC3M	968- 22- 12- 1-A	KB4RDH	21,358- 181- 59-14-A	K5LZO (+K5SP,KE5IV,N5IVF,N5MU,NTSD,WB5N,WB5RU)	287,288-1806- 74-24-B
				KA3BET	273- 21- 13- 3-A	N4IBN	18,526- 157- 59-10-A	K5RVK (+N5EA,W5AP,WA9VL)	186,628-1261- 74-24-B
				Maryland-DC		W3RGH	16,740- 310- 54- 5-A	W5EHM (KB1CM,KA5s WSS,ZVB,KF5AW,WRSJ,ops)	125,856- 874- 72-30-B
				W3LPL (WD4AXM,op)		N4XD	10,272- 107- 48- 4-B	N5JJB (+WE5P)	34,980- 268- 66-22-A
				K3NA	162,844-1114- 73-24-B	W4YE	7,000- 100- 35- 3-A	East Bay	
				K3ZZ	135,752- 958- 71-24-B	W4XD	6,888- 82- 42- 4-B	N6BV	262,108-1771- 74-24-B
				W3EAX	118,300- 845- 70-19-B	W4DKQJ	4,216- 68- 31- 5-A	K1EZ	105,696- 734- 72-19-B
				KC8C/3	105,264- 731- 72-11-B	KC4DY (+N4s FHL,GNN,JED,VG)	133,052- 899- 74-24-B	K5BH	103,304- 698- 74-19-B
				NA3OE	81,934- 577- 71-24-A	AA4UC (+K4OMD)	32,370- 249- 65-22-A	WR6R	75,522- 540- 69-15-A
				N3GB	43,282- 323- 67- 7-B	West Indies		W6EG	85,964- 478- 69-17-B
				K3SA	22,200- 185- 60- 4-B	KV4FZ (N6OP,op)	216,376-1462- 74-24-B	W6BSY	38,554- 521- 74-13-B
				KN3T	19,100- 191- 50- 4-B	KP4BKJ	51,740- 398- 65-20-B	N6EK	35,224- 259- 68-16-A
				W6AXX	17,490- 165- 53-10-B	W4JVN/KV4	12,672- 132- 48- 7-A	W6MRQ	26,412- 213- 62-16-A
				WB4FDT	15,300- 150- 51- 3-B	5		K5RQ	4,708- 107- 44- 6-B
				N5EYT	10,752- 112- 48- 7-A	Arkansas		Los Angeles	
				K3TM	3,710- 53- 35- 1-A	N5DX (K5GO,op)	194,620-1315- 74-24-A	N6HC	140,180- 960- 73-19-B
				KC3AM (+K3WJV)		K5FUV	143,704-1012- 74-24-B	W6GDS	75,396- 516- 73-22-A
				Western Pennsylvania		W9OBF	106,820- 763- 70-24-A	W6JJE (+W6RFS)	
				K3TUP	85,400- 610- 70- 9-B	KA5FZL	26,532- 198- 67-14-B	W6LOW	58,692- 402- 73-19-B
				WB3JFS	58,080- 440- 66-18-B	K5JH	15,402- 151- 51-11-A	W6RBB	44,880- 330- 68-22-A
				K3LL	23,010- 195- 59-10-A	W5KL	8,976- 102- 44- 5-B	W6BI	42,240- 320- 66-15-B
				NA3H	11,768- 111- 53- 6-B	W5TCL (+N5DZQ,WA5ZGJ)	80,808-1092- 74-22-B	N6BI	25,090- 193- 65-16-A
				K3YRA	9,478- 103- 46- 8-A	Louisiana		N6BP	24,960- 195- 64-15-A
				NA3EP	5,852- 77- 38- 6-A	W5WMU	253,968-1716- 74-24-B	W6EIG	22,968- 174- 66-17-A
				W3QII	4,940- 65- 38- 6-A	K5SSM	151,256-1036- 73-22-B	KD6KT	15,700- 157- 50- 8-A
				W3PCX	96- 8- 6- 1-A	N5FYJ	32,340- 245- 66-22-A	N6IC	13,800- 100- 68- 7-B
				K3UA (+W3FSB)		WB5SSD	25,964- 224- 58-12-A	W6BXP	11,250- 125- 45-10-A
				4		WC5D	23,232- 176- 66- 7-A	KD6J	10,300- 103- 50-17-B
				Alabama		K5LQ	20,864- 163- 64-12-A	N6GEN	9,312- 97- 48- 6-A
				N4KG (KC4ZV,op)		WB5TDD	6,958- 71- 49- 9-A	W6OPF	9,212- 98- 47-13-A
				WZ4F	58,940- 438- 65- 5-B	W5EW (+K5MC,NJ8Z,WC5N)	140,748- 951- 74-21-B	W6PPE	5,688- 79- 36-10-A
				Georgia		Mississippi		K6ML	4,736- 64- 37- 4-B
				K4BAI	52,768- 388- 68-13-A	KF5AU	82,052- 562- 73-16-B	W6CN	2,312- 34- 34- 2-A
				K4GKV	37,400- 275- 68-20-B	WQ5L	37,536- 272- 69-11-A	W6FFW	476- 17- 14- 6-A
				KE4XT	32,562- 243- 67-15-A	New Mexico		K6MLO	416- 16- 13- 4-A
				N8LM	23,790- 195- 61-11-A	A19X	108,780- 735- 74-16-B	N6WQ	240- 10- 2- 2-A
				AA4RL	18,688- 153- 61-11-A	K5BL	83,068- 577- 72-19-B	W6LAX	56- 7- 4- 1-B
				W9UJ/4	1,650- 31- 25- 8-A	N5DVY	79,804- 562- 71-18-B	W6VPZ (N5HUK,AJ8F,K6KJ,N6s DMV,HCS,J5X,QJE,W6s CN,QES,W6F,X6N,KA7QCY,ops)	87,912- 594- 74-24-B
				W4AQL (+ops)					
					114,172- 782- 73-24-B				

