

## RESULTS 1986 CALIFORNIA QSO PARTY

There can be no doubt about it. Despite so-so conditions on twenty meters and little or no propagation on 15 and 10, the 1986 California QSO Party (CQP) was by far the biggest and best ever. Bolstered by an expanded awards program and a massive pre-contest publicity campaign, a record-breaking 298 logs were received from 51 California counties, 46 states, 6 Canadian sections, and 11 DXCC countries.

Activity was tremendous, as no less than 39 entrants established new single operator scoring records during the weekend—13 of them in California and 26 out of state. CW activity in '86 improved dramatically over CQP weekends of past years. Many W6s were able to maintain good QSO rates on code for more than an hour at a time, and a few participants said that the 20 and 40 meter CW subbands sounded at times like a running of the North American Sprint! In fact, 51 operators sent in logs containing only CW QSOs.

The phone bands were crowded too. California stations formed a 75 KC wide wall of RF on 20 meters during both days of the contest, while serious out-of-state competitors found holes in the wall to call CQ into California hoping to attract W6s who were not actively participating in the test.

Many of the operators who sent in logs for this '86 event came to the conclusion that the CQP is no ordinary state QSO party—for most it is plain and simply FUN. Indeed the Party provides out—of—state ops with an opportunity to work a plethora of W6s and pick off lots of rare California counties. And, for stations in the Golden State, the CQP is different from most contests in that one doesn't need monster antennas to make a lot of QSOs. As Dave, AA6RX, so aptly put it, "In this contest, anyone in California with an amp is a "big gun."

## California Competition

Leading the pack of California single-ops this year was Mark Beckwith, WA6CTU, who operated station W6AQ to a 266K first place finish and a new Los Angeles County record. Mark started Sunday morning of the CQP 75 QSOs behind the leaders, fell to 140 Qs behind by mid morning, and then managed to catch up with some fantastic 20 meter SSB rates during the final few hours of the test. Primarily a CW enthusiast, one might

suspect that Mark now thinks that Phone contests are FB!

Second place in the '86 CQP goes to Dean Straw, N6BV, who compiled a fine 262K score while fighting line noise the entire weekend. And, finishing third was Gary Caldwell, WA6VEF, guest operating from a portable "Field Day style" station set up by Tom Schiller, N6BT, in Kings County. This effort, featuring monobanders on 10 through 40 meters, established a new single-op county expedition record of 258K.

In spite of the unremarkable band conditions, eight of the Top Ten CA single ops (W6AQ, N6BV, N6BT, N16W, A16V, W6REC, N6QR, and NV6Z) set new county scoring records. As well, the average Top Ten CA score rose from 164K in 1985 to 223K in 1986, which is the highest average in CQP history. Congratulations to Ron, NV6Z, who cracked the CA Top Ten for the first time. And, out to prove that the Cal QSO Party is not just a Phone contest, N6QR finished ninth with 1,001 QSOs, ALL of them on CWI A special mention should also be made of W6JTI and W6UQF who both made the Top Twenty in-state while running barefoot radios. Other CA single-ops who scored new records were W6DPD, K6AAW, K6LRN, W6HAL, and N1EE/6.

Out-of-State Competition

Competition outside of California was the toughest ever in a CQP. The number one spot in the 1986 Party goes again to Larry "Tree" Tyree, N6TR/7, who set, for the second consecutive year, a new out-of-state scoring record with an incredible 130,500 points. Tree not only became the first person ever to break the 1,000 QSO barrier from outside of the Golden State, he also managed to contact all 58 California counties, a feat not accomplished since K7GM did it back in 1975.

Finishing in second place was
Dave Pascoe, KM3T, with a very
impressive 80 kilopoints. Although
Dave's numbers are 50K down from those
of N6TR, his effort represents the
biggest CQP score ever made from the
eastern seaboard. Dave worked 57
California multipliers, missing just
Tuolumne County. Tuolumne, as it
turned out, proved to be the most
elusive county in the contest. Of the
18 out-of-state stations who worked at
least 50 multipliers, 11 of them
missed Tuolumne. Other tough ones--9
of 18 missed Trinity and Plumas; 8
failed to find Mariposa; 6 missed

Monterrey; 5 didn't work Sutter; and 4 were eluded by Inyo, Lake, and

Siskiyou.

Landing in third with 64K and 56 CA counties was John Barber, N5JB. These top three outside CA, along with other Top Ten finishers KS3F, AA4NC, VE7SK (who did it with dipoles and a vertical), and K4LTA, all set new single-op scoring records. Other new records were established by WL7K, ACOS, WX4G, K6GSS/KH6, N18L, NB1B, WA3PWL, NBET, KA1GQW, W6OKX/4, KD0EE, WB7TJI, W3YY, K7MM, VE2EDK, VE6BMX, VE8CM, LA8PF, and YV5BPG.

It took 53K (a QSO total of about

It took 53K (a QSO total of about 400, depending on the multiplier and the mix of CW and SSB QSOs) just to make the Top Ten this time around. In fact, ACOS's 23K effort, a score ranked number twenty six in the 1986 CQP, would have been third in the 1985 contest! The state of Texas led the pack with eleven entries; however, the most competitive state was Colorado, where five stations (ACOS, KJOG, NOFFZ, W2FV, and KROU) all broke the existing single-op record.

A special thank you is in order to Stewart, VESCM, who made "many points" passing out that rare NWT/Yukon multiplier to deserving W6s. Twenty-one California stations worked all 58 multipliers, and VES/VY1 was not the problem it usually is.

Multi-operator Competition

Multi-op activity in the 1986 CQP was somewhat scarce, surprisingly so with the addition of two new multi-op trophies for the '86 contest.

Grabbing the top spot in the multi-single category was Rich Cutler, WC6H, who, along with lots of help from WTMAP and WC6I, coasted to a 209K victory from San Joaquin County. The multi-single runner-up was the River City Contest Club out of Sacramento, CA, who put Colusa County on the air using the callsign KF6A. Their score is tops among the multi-operator California county expedition entries.

Of the multi-multi participants, first place goes to the two-man team of Bob, N6ZB, and Jim, KS6H, for their 136K portable operation from Merced County.

California County Expeditions
Again this year we owe a very
special debt of gratitude to those
intrepid individuals who, as
participant W3HDH put it, "pack the
transceiver in the car and journey off
to give all of us a rare multiplier."
A big "Thank You!!!" is in order to

this nice long list of California county expeditioners: K6AAW in Lassen, W6BSY/M in Alpine (the highest scoring mobile entry in the contest), N1EE/6 in Sierra, and WA6ZBX in Mono, all battling cold and snowy weather conditions . . . K6TMB in a cozy cabin in snowy Placer . . . N6ESV in Glenn, Yuba, Sutter, and Placer . . . W6TVP/M in Alpine and Sierra . . . W6TVP/M in Alpine and Sierra . . . W6TVP/M in Alpine and Sierra . . . . W6TVP/M in Alpine and Sierra . . . . W6TVP/M in Alpine and Sierra . . . . . K76A, K6SG, K76H, N6IG, N6GUC, and N8EG in Colusa camping trip in Kern . . . KF6A, K6SG, KV6H, N6IG, N6GUC, and N8EG in Colusa . . the K6YA multi-op team camping out on Mt. Tamalpais in Marin County . . N6BIS in Madera . . . K16EZ in Sacramento . . . K6XO/mobile in 10 counties, among them some of the rarest in the contest . . NV6Z in San Benito . . and WA6VEF and N6BT in Kings.

The Team Behind the Scenes The success of the 1986 California QSO Party was no accident--it was the culmination of the efforts of a hard working team. The Northern California Contest Club would like to acknowledge these amateurs for their help with the '86 CQP: WAGAUE, WCGI, NUGS, KGSG, WEGG, K6MBV, WW6D, and W6REC who all served to co-ordinate NCCC and Northern California CQP activity; NE61 and N6ADI who co-ordinated CQP activities in the Southern California Contest Club; W6CF, KA6ING, KI6EZ, and K6GSS for helping with publicity; N6EK for printing up the CQP cetificates; W7MAP for helping with photocopying, collating, and awards; W6SZN for maintaining the COP all-time records list; K5ZD of the National Contest Journal who graciously provided a set of NCJ mailing labels for the pre-contest publicity campaign; N6IIU and WA5VUL of the Foothills Amateur Radio Society for their long hours of help with the COP T-Shirts; N6AUV for his promotional ideas and financial wizardry; and especially Jim Wade, W6SHS, for his generous support of the Be sure to mark your calendar for October 3rd and 4th, 1987, as the '87 California QSO Party returns to its traditional slot, the first full weekend in October. See you then!

favus

Gary Caldwell WA6VEF
1986 CQP Chairman

Soapbox Out-of-State....

Out-of-State....

Did much better than last year,
put up beam at 70'. Where, oh where,
was San Francisco of all places?
(WL7K)... This is the best activity
I've heard for the Party since I first
tried it five years ago. Good job! (KROU) . . . Worked W6JTI in Humboldt for my last CALIF county! (KIBV) . . . Good contest, I'll go full boat next year! (WX4G) . . . Mni tnx for another GREAT test! I think the Cal regulars are some of the most courteous ops on the air--that is one of the reasons this is such an FB Party. CU in '87 (WA9MRU) . . . Super party! But we ones on the air. (NOFMR) . . . On weekends I work on an ambulance.
Saturday we had four runs. Kinda cut into my score. (KDOYP) . . . Score could have been much better, but too much Red Sox pennant fever the same weekend! (W1APU) . . . Had a ball in the contest. Never expected to work so many CA stations in 20 1/2 hours! (KM3T) . . . After the 15M opening on Sat., I went out and threw together a 3 el 15M beam. Naturally, there was no opening there on Sunday. (NBIB) . . I especially appreciated WC6H & how personable & appreciative he was of each QSO he had. (W8JRK) . . . . Conditions were really sad. This is the worst score for me (in the CQP) since 1980. Still had a good time. each QSO he had. (W8JRK) .

(WB5ROI) . . . The W6 wine award was what convinced the XYL that I should put in an effort in the contest! (N8ET) . . . Well, here is the log, proof of my insanity!! This was by far the best QSO Party I've seen.

Lots of activity! (N6TR/7) . . . I went to bed about 0630Z and got up.and back on the air about 1030Z to operate a couple of hours before going to church. I couldn't find a single California station on the bands, so now I know when you guys take your rest stop! (K4LTA) . . . This is one of the finest contests around and, certainly, the best state QSO Party. (WB7TJI) . . . Here don't operate when U of W or the Seahawks are on TV, which can be very hazardous to one's health. (KC7YE) . . . Worked five new counties; only one left, Mariposa. (VE1DH) . . . I make contests very often, and I prefer this one.

And from California.... It was a lot of fun even if the condx were bad. (W6NAT)... Drove the 250+ miles (to get to Lassen Co.) mostly on snow and ice. The entire set up (station and all antennas) were put up Friday afternoon and night in the wind/rain, which later turned to snow. (K6AAW) . . . I've been a ham for about 10 months and this is my first try at contesting--had a ball! (WU61) . . . Missed (most of the) first nine hours as generator wouldn't start. Ran them barefoot off the camper battery while taking breaks trying to start (it). Temps were ze to 20F in winds to 40 MPH with snow. Temps were zero (WA6ZBX) . . . I got back on again on Sunday afternoon hoping to get Plumas County on the map with a few more contacts and then realized that the contest was over(!) KB6LSP . . . The 1986 CQP was a great success, a super event. (W6HAL) . . . It was a great chance to try out my "fist" after recent hand and wrist surgery--thanks to my programmable keyer I did OK but I apologize to all the guys I sent extra "dits" to. (KY6L) . . . It was good to hear 15 open a little. The . It was Things are looking up!! (W6TKF)....SK

## Top Ten Band Breakdowns

Score

1.55

Out-of-State

N6TR/7 130,500

Call

	,	-	•									_		
KM3T	80,541	68	33	233	99	) 7	77	41	27	28	0		0	
N5JB	64,512	0	0	377	71	. 2	25	39	0	6	0	l	0	
KS3F	63,774	36	2	332	82	2 4	13	0	0	0	0	)	0	
WA5DTK	62,046	0	0	257	111	. 4	11	52	1.4	12	0	J	0	
AA4NC	61,380	27	17	290	80	) 1	18	49	1	2	0	)	0	
VE7SK	55,350	2	4	119	97	7	55	66	42	32	0	}	0	
WC4E	54,594	77	26	189	95	5 1	L 3	30	0	0	0	)	0	
K4LTA	53,909	28	22	176	101		71	52	22	3	0		0	
N6CQ/3	53,536	19	22	143	82	2 :	23	52	5	29	0	j	0	
Califor	nia													
Call	Score	1605	160C							_	15C	10M	VHF	
W6AQ	266,452	0	0	91	58	276	156	1158	234	76	16	0	0	
N6BV	262,972	0	0	. 57	51	379	111	the first two to		109	26	0	0	
N6BT	258,738	9	23	100	74	284	117	1046	135	227	20	0	11	
NI6W	250,038	18	32	91	56	83	148	1038	262	117	38	3	1	
W6UE	245,456	17	15	66	45	194	165	1051		116	16	0	0	
AIGV	242,846	20	22	54	51	257	106	1119	175	102	7	0	0	
W7CB/6	195,634	2	18	87	47	101	86	785	214	131	22	0	0	
W6REC	191,864	8	22	82	. 32	188	135	763		7	12	0	0	
N6QR	171,171	0	34	0	100	0	236	. 0	494	0	120	17	0	
NV6Z	149,292	0	0	90	33	137	13	796	128	3	0	0	. 0	

20C

59

405

530

40C

56

755

94

80C 160S 160C

21

37

20S

195

15C

## Special Awards

The Top Twenty-Winners of a personalized bottle of
California wine direct from the
cellars of the Northern California
Contest Club

California: WAGOTU, N6BV, WAGVEF, NIGW, AAGRX, AIGV, W7CB/6, WGREC, N6QR, NV6Z, N6ADI, NEGI, N6HC, K6RK, N6NF, K6AAW, WGUQF, WGHAL, VE2AQS/W6, and WGJTI.

Outside California: N6TR/7, KM3T, N5JB, KS3F, WA5DTK, AA4NC, VE7SK, WC4E, K4LTA, N6CQ/3, W3YY, K9ZO, K7NW, N8ET, WX4G, WA3PWL, W3HDH, WB9JKI, KA1GQW, and WA1FCN.

Chairman's Award: CA single-op with the most CW QSOs--Adam Mentes, N6QR.

Secretary's Award: CA mobile single-op or team with the most QSOs--Charles "Mac" McHenry, W6BSY/M.

Final Sco Call, s	res core, tot	al osc	s, to	tal	Madera					Can Luie (	hirno				
CW QS	Os (in pa	renthe	eses),		KD6FW	61,264	547	(0)		San Luis ( W7CB/6		1493	(387)	58	
	plier. A e-op cont				N6BIS (CE K6XO/M	3) 5,550 2	75 1	(O) (O)	37 1	W6UA	49,134	350	(156)	57	
(M/S)	= multi-	single	: (CE		KOKO/ II	-	•	10,	•	San Mateo					
	e-op CA c (MCE) =				Marin *K6LRN	73,590	E03	(222)		N6NF	136,938		(385)		
	y expedit					11U, K6M		(332) LIJ.	23	W6SZN W6OAT/6	25,474		(116) (110)		
mobil:					WAGEAA	, WAGROM	KB6B	Α,		W6KZJ	19,680		(160)		
Californi	=				WB6W,	N6MLW, N6 34,700		CE) (98)	50	K6KLY	18,180	202	(0)		
California	a					34,700	250	(30)	50	W6SYL KD6XY (1	15,840		(160)	33	
Alameda					Mariposa					KDOXI (I	1,408	32	(0)	22	
W6RGG W6MFZ	51,192 50,880		(3·16) (3·20)		K6XO/M	868	23	(16)	14	W6ISQ	1,296		(27)		
NEEK	38,112		(238)		Merced					K6MO	972	27	(27)	12	
Kecsr	13,068	155	(86)		MARI	46,255		(141)		Santa Bark	ara				
K6SIK WE6G	10,240 6,562	128 79	(0) (35)		K6XO/M N67B (+6	18 (S6H) (MCE	3	(0)	3	N6MB	100,340	865	(0)		
KEARE	2,484	36	(36)		NODD ( · I	136,416		(352)	58	WA6FGV AC6T	97,034		(135) (155)		
K6XO/M	WECC VAN	2	(0)	2	W-4					KY6L	15,498		(105)		
WKOK (+	WE6G, K4U 72,094		(131)	58	Modoc *W6REC	191,864	1452	(404)	58	C (1)	_				
			,,							Santa Clai W6XB	55,825	454	(107)	55	
Alpine	33,934	227	(60)	47	Mono	- E I				AD6E	18,981	171	(171)	37	
W6TVP/6		327	(68)	47	WA6ZBX (C	35,048	337	(0)	52	AJ6V WD6EPV	15,873 15,078	190 121	(49) (117)		
	1,980	30	(30)	22						KEXO	7,944	136	(59)		
Amador					Napa W6FSJ	89,958	627	(297)	5 R	W6PRI	6,624	62	(60)		
*N6QR	171,171	1001	(1001)	57	MOLDO	07,730	027	(231)	30	K6KM	330	11	(11)	10	
NEGG	43,608	316	(316)	46	Nevada					Santa Cruz					
K6BPB	19,926	162	(162)	41	*AI6V	242,846	1913	(361)	58	NS6V	39,474		(188)		
Butte					Orange					KG6AO	11,795	154	(29)	35	
K6HTM	38,112	397	(0)	48	N4ARO/6	27,265		(141)		Shasta		1/			
Calaveras					NG7D/6	10,438	117 40	(73) (0)		WJ6Q	21,336	199	(110)	42	
KERK	138,156	1007	(368)	58	KB6NFQ WB6YPX	2,000 (KI6X, WM		2010/05/20 00:00:00:00:00	23	,,,,,,	21,000		(110)		
						35,722	337	(0)	53	Sierra					
Colusa KF6A (+	K6SG, KV6	H NE	ræ :		Placer					*N1EE/6(C	49,539	418	(175)	49	
	, NB6G) (M		,		K6TMB (C	E)				W6TVP/6	CE)				
	163,792	1172	(480)	58		66,700	575	(0)			3,900	50	(50)	2€	
Contra Co	sta				N6ESV (C	E) 390	15	(0)	13	Solano					
*N69V	262,972	2069	(396)	58	Plumas					WX6M	71,338	669	(8)	53	
VE2AQS/	W6 119,643	1000	(00)	c <b>7</b>	KB6LSP	3,843	77	(29)							
KEZM	29,925		(99) (197)		K 6 KWN	1,518	23	(23)	22	Sonoma WW6D	45,504	316	(316)	48	
NB6L	18,020	170	(0)		Riverside					K6BWX	43,365		(295)		
Del Norte					N6GDS	11,240	140	(1)	40	WB2CHO	156	13	(0)	6	
WENAT	23,562	231	(0)	51	Sacrament	0				WB6EGE ( KA6OPI	KABAHK, I, WB6WP				
-					KI60	89,148		(236)		4	4,860	104	(62)	18	
Fresno *W6DPD	11,016	153	(0)	36	K6DR	62,593 61,380		(165) (372)		Stanislaus					
K6XO/M	32	4	(0)		W6NKR K16EZ (C		3/2	(3/2)	33	K6XO/M	40	4	(2)	4	
<b>61</b>						58,368	512	(0)		140			-		
Glenn N6ESV(C	E) 8,510	96	(38)	37	N6JV KX6Z	57,942 14,432	358	(1) (106)		Sutter N6ESV(CE	390	15	(0)	13	
			, ,		N6JM	1,729	42				, 550		10,		
Humboldt W6JTI	103,950	711	14601	==	KSTFR	988	26	(0)	19	Tehama				1.0	
WODII	103,330	/11	(468)	23	San Benit	0				WB6KOE	752	20	(7)	1.0	
Kern					*NV6Z (CE	)			182 E	Tulare					
KA6CZS NGLLICE	6,240	80 96	(0) (0)		K6XO/M	149,292				W61FC K6XO/M	4,293 2,626	53 40	(53) (21)		Ę
	., .,,,,		(0)		KOAO/ II	100		(0)		NOAO/ II	2,020	40	(21)	20	
Kings	A6VEF op)	(67)			San Berna		700	/2401		Tuolumne					
"NODI (M	258,738		(369)	58	*W6HAL K6EID/6	107,502 80,248		(310) (181)		K6XO/M	700	17	(16)	14	
	10 1000000000 • 10 distribut				W8AKS/M		122			Ventura	1.				
Lake KR6G	19,104	199	(0)	40						NEADI	146,044		(320)		
KROG	19,104	133	(0)	40	San Diego *NI6W	250,038	1987	(537)	50	W6TKF WA5VGI/6	63,965		(181) (245)		
Lassen					Wende	124,602		(488)		NEMA	11,970		(114)		
		1017	(235)	50	WAGUFY	40,404				N6VR	7,488		(42)		
*KENAM (C				20	AA6EE K6NA	11,880 9,120				NS6X	1,937	68	(13)	13	
	131,254	101,	,							14400 A 100					
*K6AAW(C	131,254 es		,,					,		Yolo				200	
*K6AAW(C	131,254 es (A60TU op)				San Franc					K3EST/6	7,874	99	(56)	31	
*K6AAW(C Los Angel *W6AQ (W	131,254 es (A6OTU op) 266,452 (A6RX op)					23,424 9,424	191	(106)	48		7,874	99	(56)	31	
*K6AAW(C Los Angel *W6AQ (W W6UE (A	131,254 es (A6OTU op) 266,452 (A6RX op) 245,456	2065 1892	(464) (448)	58 58	San Franc K61LM	23,424	191 146	(106) (12)	48 31	K3EST/6 Yuba N6ESV (CI	;) 416	16	(56) (0)		
*K6AAW(C Los Angel *W6AQ (W	131,254 es (A6OTU op) 266,452 (A6RX op)	2065 1892 1054	(464) (448) (396)	58 58 58	San Franc K6ILM KK1A/6 WA6AUE	23,424 9,424 9,036	191 146	(106) (12)	48 31	K3EST/6 Yuba	) 416 (6ANP) (M	16 CE)	(0)	13	
*K6AAW(C Los Angel *W6AQ (W W6UE (A NE6I N6HC N6IBP	131,254 es A60TU op) 266,452 A6RX op) 245,456 145,232 140,244 23,920	2065 1892 1054 1086 202	(464) (448) (396) (246) (116)	58 58 58 58 46	San Franc K61LM KK1A/6 WA6AUE San Joaqu KA6BIM	23,424 9,424 9,036 sin 17,672	191 146 91	(106) (12) (69)	48 31 36	K3EST/6 Yuba N6ESV (CI	;) 416	16 CE)		13	
*K6AAW(C Los Angel *W6AQ(W W6UE(A NE6I N6HC N6IBP N6IC	131,254 es A6OTU op) 266,452 A6RX op) 245,456 145,232 140,244 23,920 18,306	2065 1892 1054 1086 202 113	(464) (448) (396) (246) (116) (113)	58 58 58 58 46 54	San Franc K61LM KK1A/6 WA6AUE San Joaqu KA6BIM WB6YIY	23,424 9,424 9,036 sin 17,672 6,600	191 146 91 188 75	(106) (12) (69) (0)	48 31 36 47 44	K3EST/6 Yuba N6ESV(CI WW6F (+1	) 416 (6ANP) (M	16 CE)	(0)	13	
*K6AAW(C Los Angel *W6AQ (W W6UE (A NE6I N6HC N6IBP	131,254 es A60TU op) 266,452 A6RX op) 245,456 145,232 140,244 23,920	2065 1892 1054 1086 202	(464) (448) (396) (246) (116) (113) (0)	58 58 58 58 46 54	San Franc K61LM KK1A/6 WA6AUE San Joaqu KA6BIM WB6YIY K6XO/M	23,424 9,424 9,036 21.n 17,672 6,600 2	191 146 91 188 75	(106) (12) (69) (0) (0)	48 31 36	K3EST/6 Yuba N6ESV(CI WW6F (+1	) 416 (6ANP) (M	16 CE)	(0)	13	
*K6AAW (C Los Angel *W6AQ (W W6UE (A NE61 N6HC N61BP N61C KG6AR	131,254 es (A6OTU op) 266,452 A6RX op) 245,456 145,232 140,244 23,920 18,306 6,232	2065 1892 1054 1086 202 113 101	(464) (448) (396) (246) (116) (113) (0) (57)	58 58 58 58 46 54 31	San Franc K61LM KK1A/6 WA6AUE San Joaqu KA6BIM WB6YIY K6XO/M	23,424 9,424 9,036 sin 17,672 6,600	191 146 91 188 75 1	(106) (12) (69) (0) (0) (0)	48 31 36 47 44 1	K3EST/6 Yuba N6ESV(CI WW6F (+1	) 416 (6ANP) (M	16 CE)	(0)	13	

Out-of Sta	ate.				Michigan				Texas *N5JB	64,512	518	(116)	56
Out-01 318	ice				KN8P 25,488	223	(85)	48	WASDIK	62,046		(175)	
Alabama	2000 0000000 00	ar annual T	A NOONE MEETS		WBSH (WA6DGX op				K5CFA	25,080	190	(190)	
N4JF	8,930	100	(35)		9,828 K8CV 4,914	100 63	(34) (63)		KN5H	24,596		(139)	
WA4VEK	4,290	65	(0)	33	WA80JR 3,432	52		33	AGSC W5PWG	18,642 17,082		(142) (126)	
Alaska					K8KIR 2,925	39	(39)		W5ASP	11,802	105	(71)	
*WL7K	16,400	164	(0)		W8WVU 1,638	26	(26)		W5NR	11,672		(107)	
NL7D	3,840	60	(0)		W8JRK 1,472	32	(0)	23	N5GOF	9,916	102	(64)	
WL7E	2,320	40	(0)	29	Minnesota				WN4KKN	6,420	86	(42)	
Arizona					KG0B 11,742	103	(103)	38	WASIYX	5,106	69	(0)	3/
W7YS	13,528	124	(108)	38	KA7KDJ/0(M/S)				Utah				
NN7A	11,556		(107)		6,786	87	(0)	39	*WB7TJI	9,213	. 100	(49)	37
AK7J	48	4	(4)	4	Mississippi				K6YT/7	5,460	67	(48)	30
G-1					WB5ROI 5,920	80	(0)	37	Vermont				
Colorado *ACOS	23,650	207	(136)	43		• •	, - ,		WAIJVV	6,244	80	(63)	28
KJ0G	17,372				Missouri		100000000000000000000000000000000000000	101.101	NIEBT	2,580	43	(0)	
NOFFZ	17,020	155	(150)	37	WB0ZSS 9,288	86	(83)	36					
WZFV	14,937	152	(79)		Montana				Virginia	F3 F30	***		
KROU WOIZV	14,319 8,931	151 93	(85) (43)		N7HFU 6,480	90	(0)	36	*W3YY W4XD	52,528 7,875	400 75	(138) (75)	
KOGAS	6,188	91	(0)		N7IBG 5,425	60	(55)						
	-,200		, . ,		5 100				KB4RDH W4YE	1,564	34 25	(0) (25)	
Connectic					Nebraska		1101	29	*****	1,200	23	(23)	10
WAIFCN	27,090		(152)		AKOG 4,640 NOGMR 3,162	63 51	(19) (0)		Washington	n			
K8HVT K1BV	20,286	193	(97) (64)		WAGBOK 672	21	(0)		K7NW	43,575	352	(134)	52
W1BEM	9,720 7,968	83	(83)						KC7YE	10,044	106	(67)	
KF1B	476	17	(0)		New Hampshire				KM7E	9,216	128	(0)	
KIKI	363	11	(11)		KA1LBW 4,000	50	(25)	32	K7WA	7,194	77	(64)	33
					New Jersey				West Virg	inia			
Florida	54 504	470			NJ2D 13,720	142	(59)	40	NR8A	4,563	61	(47)	27
WC4E KF4BU	54,594 11,234	137	(151)		WAZLET 7,378	82	(53)		WSVEN	3,654	63	(0)	29
WK4F	6,734	91	(0)		K2PF 1,200	25	(25)		****				
KO4J	3,808	56	(0)		K2EWA 680	20	(0)	17	Wisconsin K9JIG	3,906	63	(0)	31
N4OKD	2,236	43	(0)	26	New Mexico				W>010	3,700	0.5	107	21
					KB5DQ 5,882	78	(17)	34	Wyoming				
Georgia *WX4G	38,220	309	(117)	5.2	W5FS 825	24	(7)		*K7MM	12.012	124	(60)	39
WECNL	5,760	66	(28)						Manieles				
					New York				Maritime VE1DH	20,586	172	(94)	47
Hawaii					WA1KKM 13,817 W2DUN 8,019	133	(71)		, W.Z.D.II	20,500	***	(24)	4.
*K6GSS/K		200	(0)		KZ2W 5,390	77	(0)		Quebec				
	20,800	200	(0)	34	W2HG 3,328	46	(36)		*VE2EDK	11,484	119	(110)	33
Idaho			(*)		N8BJQ/M 1,440	30	(0)	24	0-4				
W7RH	21,844	200	(108)	4.3	N2FZJ 1,080	20	(20)	18	Ontario VE3KK	13,357	124	/1123	2.7
					Nember Consider				AFDUK	13,337	124	(113)	3/
Illinois					North Carolina *AA4NC 61,380	484	(148)	55	Alberta				
K9ZO WB9JKI	51,728 30,480		(152) (141)		KJ4TI 4,292	74	(0)		*VE6BMX	9,672	104	(104)	31
K9BG	6,848	77	(60)		KS4S 4,234	60	(26)	29	6-111.1				
WA 9MRU	3,726	54	(30)						British Co *VE7SK	55,350	111	(197)	5.4
KA9FUG	2,418	39	(0)		North Dakota *WA3PWL 37,908	315	(99)	52	VE7AHA	25,850	227	(96)	
KA91MX	1,188	27	(0)		"HK3FHL 31,300	313	(33)	32	VE7IQ	13,880	133	(81)	
K9HRC	1,377	27	(27)	17	Ohio				VE7BLU	768	23	(2)	16
Indiana					*N8ET 40,333		(125)		A 97.4mm 171				
*NI8L	26,979	224	(81)	51	KUBE. 16,492	173	(88)		NWT-Yukon *VE8CM	6,162	79	/01	20
KD9BG	2,408	43	(0)		K8MR 11,410 W8LNO 1,848	120 28	(86) (28)		* HOCH	0,102	13	(0)	39
					N8BJQ/M 986	29		17	Asia				
Iowa	74.744	100	(75)		KV8Q 462	14			JH7WKQ	1,024	22	(20)	16
KCOCP WOJTC	21,744 1,860	189 31			Oh I ah ama				JH3DEJ	32	4	(0)	4
	_,,,,,		,,		Oklahoma KB6LO/5 13,920	145	(0)	4.8		(JA9IIG, )148 ops)			
Kansas							, -,		01/3-10	972	25	(4)	18
NOFMR	18,662		(114)		Oregon			1221000		* =		,	_•
NOCTA	17,100	143			*N6TR/7 130,500	1030	(190)	58	Europe				
KDOYP WAOTKJ	3,776 2,268	59 42		32 27	Dame 1 1				*LASPF EAZIA	5,518	63	(52)	
MOING	2,200		, • ,	18.	Pennsylvania *KS3F 63,774	527	(127)	5.4	F6BEE	3,240 1,326	45 26	(45) (26)	
Kentucky					N6CQ/3 53,536		(192)		EA4BVE	960	20	(20)	
WA4EBN	17,544		(110)		W3HDH 30,780		(168)				-		
KZUPD	17,238	153	(136)	39	W3ARK 10,218	100			North Amer		_		-
Maine				*	K3TX 9,174	106			K8UNP/P	7 80	6	(4)	5
KALHB	8,568	84	(84)	34	N3RJ 4,770				South 3	-iaa			
KA1CVM	2,080	40	(0)	26	N3CZB 1,188 N8BJQ/M 690			15	South Ame *YV5BPG	3,762	57	(0)	33
WIAPU	1,890	35	(35)	18			(0)		PT2TF	936	26		18
W	/na				Rhode Island	1-000			YY1C	570	19		15
Maryland,	80,541	606	(201)	57	*KA1GQW 28,764	245	(122)	47					
W4KM	2,415		(35)		South Carolina				Check log N6UW.	5: 135UG,	NONL	, and	
	(W4KM op)				*W60KX/4 15,540	138	(94)	42	MOUN.				
	1,020	. 23	(14)	17			, ,			*			
Mag-aut		•			South Dakota								
Massachu: *NB1B	21,798	203	(113)	42	*KD0EE 12,546	137	(32)	41					
KBIVL	10,619	102			Tennessee								
KICLN	4,031	61	(17)	29	*K4LTA 53,909	475	(197)	47					
WIFJ	2.675	39			N4TG 20,988	200	(77)	44					
W10PJ	1,056	22	(22)	16	KB4FHE 8,151			39					