June Vhf QSO Party Results

Things were looking up – scores, participation and even the muf.

By Bill Jennings,* K1WJ

he arrival of June and the initial thoughts of summertime leisure and recreation are soon replaced by visions of rising muf and E skip.

Six meters, again the "bread and butter" band, came through in fine style for the June VHF QSO Party. Excellent openings between the East and West Coasts, the West Coast and KH6, as well as good north-south propagation, provided the impetus for a June contest that was to see a total of 16 all-time division records set.

The figures in the multipliers-perband-listings seem to bear out the importance of decent 6-meter conditions for achieving a competitive score. Of the 244 stations meeting the minimum numbers of multipliers to make the listing, 156 (or 64 percent) made it on 6 meters. This is a greater number than the total number of stations that made the listings in 1976 on any and all bands.

A new single-operator national record score was but one of the highlights of the contest. N6NB (K6YNB) proceeded to improve on his 60k point premier performance of 1976, to the tune of almost 9000 points, and copped the number one single-operator slot for the fifth year in a row. If Wayne is able to repeat in the top spot in 1978, it will be his Number 6 National Best. The QSO breakdown by band for N6NB shows 362 QSOs on 6 meters, 188 QSOs (no QSOs on the 146- to 148-MHz portion of the band) on 2 meters, 69 QSOs on 220 and 24 contacts on 432.

The other "repeater" to the Top Ten single-operator list is W2CRS. Doug increased his 1976 score by 7905 points, to move from number five to third place nationally. This score increase of almost 29 percent is indicative of the average score increase needed to make the Top Ten this year. In 1976 the average score for the Top Ten in the single-operator category was 27,017, rising to 33,254 in 1977.

Multioperator stations filling the Top Ten positions had to post an average score increase of almost 1000 *Communications Assistant, ARRL



More points per horsepower? N6NB (ex-K6YNB) set a new national record for single operators from this Volkswagen bus, whose 53 hp somehow got Wayne, his generator, tower, antennas and kilowatt rigs for four whf bands up 8800 feet on Mt. Pinos. Using the VW was a lastminute decision after the much bigger truck he would normally use broke down late the night before the contest!

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ストロントレート しゅうしゅう たいしゅうくせいしゅうしゅうかん マスログ ひょうかん たんきどう したし 人類的な シー

points to 94,921, from 93,960 in 1976. W3CCX led the pack with a boost in score of almost 8k points to retain the number one position. The group at W1DC came up with a 21k total point increase over their 1976 effort to move from fifth place up to third. A similar increase in score for the W3BBS operation brought them from an eighth-place finish in 1976 to the magic 100k point level and fourth place this year. The largest overall change in position was made by the gang at WB2FKJ/2. Their 23k increase in score, won them a five-place upward adjustment from number 10 in 1976 to number five this year.

Eight stations (six single operator and two multioperator) repeated as leaders of their respective divisions. K9HDE, WAØSCL, WASUUD W2CRS, WAØMRH and WA4GPM, single-operator stations, led their divisions as did multioperator stations W3CCX/3 and WØOHU/Ø.

Of the 16 new division high scores set, nine were single operator and seven were of the multioperator variety. The Dakota, Roanoke and West Gulf Divisions all sport two, both single and multioperator, new division records.

Those single operators making new division records included K9HDE, who nearly doubled the 1972 score of K9HMB to capture the Central Division record and WAØCSL adding 8k points to the existing Dakota Division record. The oldest standing record broken was the 1968 Midwest Division mark, this done by WAØMRH by over 5000 points. K1MNS is the new single-operator division record holder in the New England Division. N6NB bettered his 1972 record in the Pacific Division by more than three times the total score. Wayne is the only single operator to hold two division records simultaneously. He has the score to beat in the Pacific Division (as N6NB) and holds the record in the Southwestern Division (as K6YNB), both with outstanding 60k plus scores. WA4GPM bettered the old Roanoke Division mark by 2000 points. WAØTVZ took over top spot in the Rocky Mountain Division, while WA5HNK was bettering the old West Gulf record by 10 kilopoints. In a strong effort, VE2YU nearly tripled the single-operator record in the Canadian Division.

On the multioperator side of things; the W3CCX/3 "machine" bettered their one-year-old record in the Atlantic Division. The operators at W ϕ OHU/ ϕ nearly tripled their 1976 division record in the Dakota Division, and are now, as last year, the only group to hold two multioperator division records at the same time. W4BFB/4, the Mecklenburg, NC, group added 30k points to the previous best in the Delta Division.

Top Ten			
Single Op		Multi-Op	
N6NB K1MNS W2CRS WA5HNK K9HDE WB8BKC WB6OKK	69,184 36,686 35,280 34,151 33,572 33,259 31,326	W3CCX/3 W2SZ/1 W1DC W3BBS WB2FKJ/2 W6XJ/6 K2OWB	152,134 112,395 110,580 101,584 95,364 93,314 81,396
WB800KK WB8BGY WB5UQH W1EJ	31,032 30,858 28,946	WA2SNA K3LZ W2CNS/3	79,288 62,205 60,950

W7LYE/7, K3LNZ/8 and K4CKS broke the existing division multioperator records in the Northwestern, Roanoke and Southeastern Divisions respectively. K5CM (that's really Connie, K5WVX) and the gang behind a new call sign, added 23,000 points to their 1976 record to set the standard in the West Gulf Division.

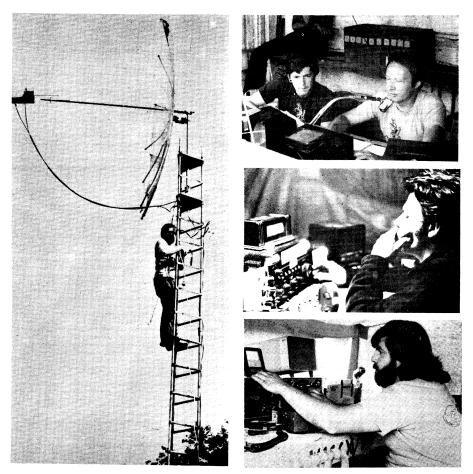
More than one operation in the June contest was the happy recipient of a DX multiplier, thanks to the efforts of W2BN/C6A in the Bahama Islands and WB2RLK/6Y5 in Jamaica. To thank these and others so inclined to give out multipliers, a category has been added this year, starting with this report to include DX stations in the all-time division leaders and the division leaders boxes.

This, the latest running of the June VHF QSO Party boasts: new singleoperator and division records, a substantial average increase in scores of the Top Ten and an increased number of entries, from 406 in 1976 to 487 in 1977, an increase of almost 20 percent. The figures seem to put the damper on those "doom-mongers," who predicted that this contest, the first run under the new "no." 52 (146.52-MHz simplex) rule" would be a bust, in terms of the amount of participation as well as lower overall scores.

The no. 52 rule has since been amended to a "limited 52" rule for the September VHF QSO Party. Any opinions, thoughts or suggestions on this or any matter (rules, etc.) concerning contests are actively solicited by the Contest Advisory Committee. Correspondence directed to the CAC may be sent via ARRL hq. It's your contest, your opinion counts.

Soapbox

The 1000-mile trip down to Delaware and back was as exciting as the



How it's done: Several of the operators of W3CCX/3 in the process of building the number-one multioperator score.

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contest. Driving 300 miles in the rain with no windshield wipers and two broken brake lines on the bus, added to the excitement. . . . Set-up went smoothly. Erected six towers in 30-mph winds and had all the gear on the air in one day's time. Hoisting the eight-foot dish proved to be tricky in those winds... Highlights included a 175-mile, 1296-MHz ssb QSO (not bad for a sea-level station). Working maritime mobile on 10 GHz (probably first New Jersey to Delaware two-way on 10 GHz) proved to be interesting also! (W2CNS/3) Contest was great fun, especially when Es began coming in from the west on 2 meters. Just realized how many multipliers are available out there. (WB5LUA) Our vote for "Mr. Nice Guy" goes to K7OFT/7 for giving two tough states almost at once. (K6BPC) Here in Alaska, 6 meters was not open except for occasional meteor bursts of about one-minute duration. Worked two stations on ssb, one on a-m, and one station on mcw (all local contacts). . . . KL7IFD/KL7 plans another weekend operation on

Multipliers Per Band

Min. Sections MHz	40 50	15 144	5 220	3 432	2 1215	Min. Sections MHz	40 50	15 1 4 4	5 220	3 432	2 1215	Min. Sections MHz	40 50	15 144 :	5 220	3 432	2 1215
K1PXE	18	21	11	16	4	WA2SNA*	46	23	12	17	8	WA4FBH*	56	6			
W1FV	49					W2EIF	14	17	12	10	1	WA4JQS	53	6			
W1XZ		16		9	3	WA2KOK	42	13	2	5		WA4IPI		9		3	
WA1FFO				16	3	WB4NXY/2	36	15				WB4VLH*	45				
WB1DNM		16				W2PAU	10	18		_		WA4MVI	39	8		4	
W1AVV		15				W2HXF		12		7		K4PKV	24	5		6	
K1MUJ/1*	54	16				K2BWR*	39	15	11	10		K1FJM/4		12		6	
W1 SP	38	17	_	11		WA2BPE	46	13	5	4		W4VHH		12	~	8	
W1JR	30	16	7	16	4	K2LZF K2MQY	35 27	15	5	4		K4HJE/4*	57	8	2	4	
WB2GLQ/1	48	12	7	3		K2NV	15	17		3		W4PAR*	31	7	2	3	
K1DAT	42	4		~		K2GK	15	20		5		WA4WZQ/4*	24	5	2	3	
WA5IOD/1	27	7	3	3		W2WGL		15				WB4BSZ WD4DTC	47 43	2 4			
K1LOG	50	6	10	13 11		K2LWR*	42	13		12		WD4D1C W4LJ	43	4			
W1XM*	50	16	12	5		WA2ZJF*	43	15		4		W4LJ W4IQQ/4*	51	5		4 4	1
WA10AM/1*	50	19	7	5 4		WA2GBG/2*	42	17		-		K4SAO/4*	25	5 4		4	1
WA1MKE*	43 53	16	4	10		WA2WLH*	34	15				WA4DNS	20 51	5		4	
K1MNS W1EJ	53 54	15	5	7	1	WB2KYQ/2*	10	17				WA4EEZ	48	1	2		
W1EJ W1JSM	54	15	5			K2EVJ	27	• • •			2	WB4BND	40	1	2		
		9		4		WA3QPX	29	14	6	11	-	WA4HNQ	43				
W1SL W1FMF*	62	18	3	10		W3BDP	4	16	•	• •		WB4COM	46	1			
WIDC*	55	22	15	15	6	W2CNS/3*	58	19	10	13	4	W4MNZ	41				
WA1OUB*	61	20	10	10	Ŭ	WA3VJU	54	13				WB4JGG	55	8			
K1COW	40	- 8		5		K3GNC	29	14	2	8		K4EJQ	22	8		5	
WIAIM	44	7		•		K3IWK	30	16		1		W4BFB/4*	59	11	2	5	
WA1IWK*	70	16	7	1		WB3CXE	42					WA4GPM	44	17		12	
WA1MAG*	50	6	-	-		W3CCX/3*	56	22	15	20	9	K2UOP/4	40	15	3	6	1
W2SZ/1*	61	22	17	20	7	W3BBS*	47	22	14	19	5	W4UCH	17	5	5	5	
WA1RWU*	52	18		11		K3LZ*	48	20	5	14		WA4SBC		7		12	
N1HR/1*	39	12	4	5		W3AD/3*	34	17				W4FJ	20			8	
K1JX/1*		15		4		K3HZU*	30	18	2	1		W4MHQ		9		4	
W2CRS	55	19	8	. 8		WA3NRU	4	15	2			K4LHB			5		
WA2FUZ	44	12				W3TMZ		21	3	19		K5MWH		11		4	
W2CXC	30	9		7		W3XO	40					WA5UMP/5*	63	5			
WB2FKJ/2*	59	22	11	13	-	WA3USC		15	-	•		WA5UUD	53				
K2CBA*	47	19	8	9		K3IVO/3*	32	12		13		K4CHE/5	54	.1		1	
K2OVS	29	16		10		W3PGA/3*	26	13		9		W5TRB	57	•			
WB2TCC		17		8		W3EAX*	4	13	6	1		K5GMX	59	9		-	1
WA2FZW	44	16		8		W3GNR/3*	40	19				WB5LUA	~7	12		5	1
WB2WIH	37	10		5		W3QZF/3*	41	10				WB5UQH	67	7			
WB2VWW	41	11			•	WA4NJP	56 49	7		2		WA5VHN K5CM*	52 70	14			
W2OMS		40		19	6	WA2JVO/4		5				WA5HNK	60	8		3	
WB2CUT		16 18				KH6IJZ/4 W4ISS	47 16	4		7		WA5QCP	54	J		5	
WA2UDT		18		15	2	W4WDH	10	7		. 3		WASIYX	40				
WA2ZZF K2OWR*	56	22	15	15		K4CKS*	56	8		4		WB5HRI*	48	10	1	2	
NZUWN	50	22	10	10	3	NTONO	50	0		4				. 5		-	

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N5AF* W6BXO	46 42	8 8	1 3	6	1	K7CW* K7ZCB/7*	45 46	9 4	1 2	3 2	1	WA9KVS WA9QVK	60 51	5			
WB6KBZ*	49	8	5	8	3	W7XF	55	•				WA9KGQ W9YYF	40	8		~	
WB6OKK	43	13	5	8		WA7KYM	48	2		-			F 4	14 1		6	
W6ABN	31		-	5		WB8BKC	63	11		5		WAØTVZ	54	,			
K6IBY			6			WB8BGY	60	9	_	3		W9MHL/Ø	53				
W6XT*	9	5	5			W8IDU	49	6	2	1		WA8GUB/Ø	58				
W6AMT*	55	11	6	7		KH6JDZ/W8	50					WBØVGC	40				
W60AL/6*	30	8		6		WA8EUU	40	6		1		WØSI	44				
WA6GYD	30	7	4	5	2	W8MRM/8*	47	7		2		WBØNZA	40	10			
K6FV	36	7	2	4		WA8CLN	54	17				WØGL	59	7			
K6QAX	42	. 7	_			WA80GS	54					WAØTRO	41				
WA6AWM	61	6				WB8IGY	43	12		4		WAOPDA	40				
N6CW	53	v				WA8TLZ	24	8		3		WØOHU/Ø*	65	15	4	5	
W6XJ/6*	69	15	6	6	1	WA8TJL		15		4		WØRGU*	49	7		4	
WB6BDR	58	6	•	ă	2	K8UQA				16		KØTLM	54	6		3	
N6GN	50	8		5	3	W8VP*	54	15				WBOPKN	50	2			
N6NB	66	11	8	9	3	W8CCI*	58					WØJRP	47	2 1			
K6YK	52	4	0	9		WA8PLZ*	49	7	1	1		WAØMRH*	67				
	42	4				WAAEC	22	14	•	12		WØEKB	66				
WB6LBR		4				K3LNZ/8*	52	19	12	15		KØKKV*	44				
K6RNQ	49		~	•		WA8FSE	10	17	12	9		WAOSCL	58				
K6JKQ/6	15	4	2	3		K9HDE		7	1	9 5		KØVXM	41	5			
K7NN	68	1	_	1			64	-	,	5		WAOVPY	53	3			
K700*	67	9	3	5		WA9LEF	65	9 7				VE2YU	53 47	13			1
K7OFT/7	45	1				W9KDR	64									4	1
WA7UHW	40					W9SE	40	9				VE2SH	30	10		5	1
W7JF	43					W91V1	47	6				VE3BQN	34	11	4	10	1
K7ICW	54	8				K9BDJ	43					VE3EYR	33	4		3	
K7NV	60					K9KQR		10		4		VE3FHM	26	4		3	
K7ZOK	43	8		3		N9HH*	59	13	2	4		VE3FN		22			
W6YKM/7*	56	6	5	3 5 2		K9EKI	43	8				VE3ONT*	44	22	12	1	
WA7RTA	44	4	2	2		WA9MEM	47					VE3FHK*	50	7		3	
WA7TDU	41	3	-	2		WA9PKL	40	2				W2BN/C6A	50				
K7AU0/7*	40	4	2	2	4	WB8HUC/9*	61	10									
W7HR	37	5	ĩ	3		WB90PD	61										
W7LYE/7*	41	5	3	3		K90XY	52	7		2							
						WA9LZM	54				2	*Multi-Operat	or Stati	on			
K7SS*	42	5	2	3		WA9LZM	54				2	*Multi-Operat	or Stati	o n			

September 10-11. Hope 6 meters is in better shape. (KL7IFD) Really a great contest. During the contest, this station provided "semi-emergency" help to a motorist who had become stranded near our station location on top of Black Mountain in San Diego County. It seems that the motorist had messed up his transmission and had gone down the mountain for parts. While he was gone, someone had mixed up his distributor wires for fun. A call on the local 04/64 repeater at 2300 local time brought response from a station in Los Angeles, 120 miles away, who passed along a wiring diagram. This assistance was greatly appreciated and produced some favorable ham radio PR. (WA6PKS) Fantastic band openings both days on 6 meters. I was surprised at how well my old HX-30 performed. . . . Hope to have 2-meter capabilities improved for the next time, as 2 was wide open on Saturday night. (WA4EEZ) Reception was average. Facing the antenna toward the setting sun paid off again. Raised VE3ONT and several WV stations. (WA3NNZ) Vhf contesting without 146.52 MHz is a *real* drag! (WA6VEF) Glad to see the use of 2 fm way down! That channelized stuff isn't what vhf operating is about! (W2FWS/WB2KLD) Excellent conditions on 6 meters. Activity on 2 cw and ssb very poor. All areas except one- and three-land heard on 6 meters. A real pleasure listening to the guys on Puget Sound working KH6IAA and KH6GRU. I listened for about 30 minutes, then the 7000-foot Olympic mountain range at my doorstep, allowed KH6IAA's signal to roll down my side. 2006 UTC, a 43 report on ssb, gave me number 50 on 6. (K7VNU) It was the meanest contest I ever got into. The signals were up and down like a roller coaster throughout. Many DX stations with signals building up strong, with a fast drop out. Just enough to tease a guy into thinking that the band (2 meters) would break wide open, but it didn't. (K9SLQ) Just finished my first vhf contest from VE7-land. Amazed at what I could work with only 3 watts and a five-element beam at 25 feet. (G3PPE/VE7) I strongly urge that the rules be revised to allow each foreign country, on the



WB2AXV at the 432 station for W2SZ/1 in Western Massachusetts.

Division Leade	rs		All-Time Div	ision Leade	ers				
Single Op	Division	Multi-Op	Single Opera	tor		Division	Multi-Operator		
WA3VJU	Atlantic	W3CCX/3*	Call	Score	Year	i.	Call	Score	Year
K9HDE*	Central	N9HH	K3IPM	37,989	68	Atlantic	W3CCX/3	152,134	77
WAØCSL*	Dakota	WØOHU/Ø*	K9HDE	33,572	77	Central	КЭНМВ	40,468	75
WA5UUD	Delta	W4BFB/4*	WAØCSL	21,808	77	Dakota	WOOHU/Ø	60,164	77
WB8BKC	Great Lakes	W8VP	WA5RMS	16,740	70	Delta	W4BFB/4	48,972	77
W2CRS	Hudson	WB2FKJ/2	K8LEE	37,114	74	Great Lakes	WA8BCA	61,656	75
WAØMRH*	Midwest		K2RTH	37,875	74	Hudson	WB2WIK/2	106,399	76
K1MNS*	New England	W2SZ/1	WAØMRH	20,435	77	Midwest	WØOHU/Ø	33,120	74
W7HR	Northwestern	W7LYE/7*	K1MNS	36,686	77	New England	WA1MUG	172,142	74
N6NB*	Pacific	WB6KBZ	K7GWE	20,515	74	Northwestern	W7LYE/7	35,776	77
WA4GPM*	Roanoke	K3LNZ/8*	N6NB	69,184	77	Pacific	WA6JUD/6	81,213	76
WAØTVZ*	Rocky Mt.	W6LEV/7	WA4GPM	21,316	77	Roanoke	K3LNZ/8	56,742	77
WA4NJP	Southeastern	K4CKS*	WAØTVZ	22,935	77	Rocky Mt.	WB5AXC/5	23,424	76
WB60KK	Southwestern	W6XJ/6	W4GJO	32,292	62	Southeastern	K4CKS	19,856	77
WA5HNK*	West Gulf	K5CM*	K6YNB/6	60,342	76	Southwestern	W6AMT	105,080	76
VE2YU*	Canadian	VE3ONT	WA5HNK	34,151	77	West Gulf	K5CM	56,028	77
W2BN/C6A	DX**	WB2RLK/6Y5	VE2YU	24,115	77	Canadian	VE3ONT	82,1 8 8	74
			W2BN/C6A	18,700	. 77	DX**	WB2RLK/6Y5	10,620	77
*Indicates Nev	v Division Record								
**New Catego	ry Begun in 1977		**New Cate	gory Begun	in 1977				



Members of the W2CNS/3 Delaware "expeditionary force" are (left to right) WA2ZKD, K2LDU, WA2FQE, W2CNS, WB2BGJ, WA4EVC, WB2KAO, K9LXX, WA2SEY, WA2MZG, WA2ZQN, WA2WVL, WB3HKZ.

ARRL Countries List, to be counted as a separate multiplier. The case in point being the C6A and 6Y5 operations. (WA3VVJ/K3IVO) When is there going to be a low-power multiplier? (W6FAW) The temperature and humidity were super rough here. It took a load of 807s and a few cloths to make it through the contest. Condx were great in that the band (6 M) was open to all different parts of the country. Band didn't stay open too long at a time in any one direction though. Looking forward to greater 432-MHz activity during September, when we will have a different location with over 2000 feet more height. (WB4AEG/K4CKS) Our group had a slight setback. When we arrived at the club house to load up the equipment, we discovered that a burglar had removed all of it the night before. We had to scrounge up some rigs and purchase an antenna. We suggested to the police that they check their files for any burglars with the name Murphy. Hi. (WA4YFC/W4GZX/4) This VHF QSO Party was a great introduction, for me, to 6-meter ssb. Have never enjoyed a contest more. Activity was just tremendous, considering that skip was to a limited area. It was a pleasure putting VO2 into so many logs. (VO2AG) Again attempted microwave contacts over a 40-mile path. An inversion layer made the bands above 3.3 GHz unusable. A closer contact of 20 miles was made on 10 GHz. Highlight of the contest was the landing on Round Top Mountain, near our station site, of a survey team helicopter. Our position was given as 45 degrees 40 minutes 38.860 seconds latitude, 123 degrees 21 minutes 40.303 seconds longitude and 910.01 meters in elevation, as determined by an inertial guidance platform. (W7CDM/K7AUO/ 7) Ran 144-MHz meteors with W7FN,

W5FF, W7JF and W7UBI. Heard lots of other stuff (calls and sections), but not enough for two ways. . . Also heard K1WHS and W6PO off the moon on 144 MHz. . . . Worked 69 sections in 49 states on 6 meters. Heard KL7FIB (no. 50) in Alaska, but lost him in the QRM. Not too bad for a weekend. (W6XJ/6) This was certainly our greatest vhf contest ever. Everything seemed to go just right; the weather, the band conditions, the lack of bugs, and the local Sunday newspaper ran an article and pictures of our operation on the front page, without us even contacting them. . . . Some guys even found out



Standing: (left to right) WØRY and WBØTXA (and moral support to WBØUIP and WBØSJJ at the 2-meter station of WØRGU, multiop in Minnesota.

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about the contest by reading the Sunday newspaper, then got on and worked us. $(W \not O \hat{H} \hat{U})$ Probably the best condx on 6 meters for a contest in several years. . . . Spent a lot of time on Saturday watching the muf soar to 110 MHz and more. . . . Band on Sunday open for hours into Rocky Mountain and Dakota areas, where very few ops available for contacts. (WA5IYX) Only a masochist would assail the 2-meter band during a vhf contest with a 10-watt rig and a four-element, 10meter yagi at 50 feet! . . . Having been off 2-meter cw since 1965, I was pleased

to see so much cw and ssb on the low end. (W1FB) I think that the scoring for the contests would be fairer if 6-meter contacts were worth only onehalf point in June. For a September contest, a 2 meter and higher only entry has a chance of winning in a section, but in June it's hopeless. I just don't want to put up with TVI hassles in a TV fringe area if I operate 6 meters. (K1FJM/4) Six meters was not to be believed. . . . Worked 40 states in less than 24 hours! (W2CRS) My rig wasn't working on Saturday and my wife picked Sunday to start "potty training"

our two-year-old son. I had fun anyway and will try again this fall. (WA9FCG/1) Was "detained" (ar-rested) for "smuggling" Coffee Mate in plastic bag, and fined \$250 U.S., which was given back upon our departure. . . . Worked two Washington, DC stations. The first was using a "Benton Harbor Lunchbox" and an indoor dipole on a-m and the second station was using an IC-502 while walking down Rhode Island Avenue. . . . Cockroaches may be killed by spitting Bourbon on them (86 proof or higher). (W2BN/C6A)

Scores are listed in order, single-operator stations first within each section. From left to right: call, score, number of QSOs, number of multi-pliers, bands operated (A-50 MHz, B-144 MHz, C-220 MHz, D-420 MHz, E-1215 MHz, F-2304 MHz, G-3300 MHz, H-5 GHz, 1-10 GHz).

U.S.A. 1

Connecticut

K1PXE 24.080-266-70-ABCDE

KIFAE 24,080-200-70-ADCDE
W1FV 9261-189-49-A
W1WHL 5358-141-38-A
WA1HFE 5070-130-39-A
K1WVE 3630-110-33-AB
W1XZ 3444-102-28-BDE
W1HDQ 3036- 92-33-AB
WA1FFO 2242- 57-19-DE
K1ZZ 1944- 72-27-A
WA1CVN 1836- 68-27-A
WB1DNM 1472- 92-16-B
WA1LOU 1218- 87-14-B
W1AVV 1050- 70-15-B
WA1KPD 468- 39-12-B
W1FB 418- 38-11-B
W1FAJ 385- 35-11-B
K1PLR 329- 47- 7-B
WA1ZNT 238- 34- 7-B
W1WEE 120- 20- 6-B
K1BNO 56- 14- 4-B
W1ECH 10- 5- 2-B
W1BL 3- 3- 1-B
KIMUJ/1(K1s VSC ZKR,WA1HYN
oprs.) 30,870-441-70-AB
W1SP(+K1BDA)
16.764-240-66-ABD
WA1GTP(+K1VYU)
3393- 87-39-AB

Eastern Massachusetts

W1JR 25,258-260-73-ABCDEI WB2GLQ/1_____ WB2GLQ/1 19,460-258-70-ABCD K1DAT 10,350-225-46-AB WA510D/1 KIDAI 10,350-22546-AB WA51OD/16400-143-40-ABCD KILOG 1610-51-19-BD WIJOT 5- 6-5-BD WIJOT 5-6-5-BD WIXM(KIJH,WIXG,WA1RJX, WATTG,W821,0prs, WA10AM/1(+WA1s ONB 0ZI PBU GWF VFJ) GWF VFJ) WA1MKE(+K1GAO) WA1MKE(+K1GAO) WA1MKE(+K1GAO) Maine

K1TOL 6696-186-36-A WA9FCG/1 207- 23- 9-A

New Hampshire

KIMNS 36,686-407-83-ABCD WIEJ 28,946-324-82-ABCDE WIJSM 1224-68-18-B WISL 650-38-13-BD WINH 4-2-1-C WISWX 2-1-C W1SWX 2- 1- 1-C W1DC (W15 BXI GGM GUU GXT OOP QXX, K15 BA KEC MON MUC NZQ OJG SVF TWF WA15 DRO GVH HON KPS LXU NPN NVC QQJ RSP TZV, oprs.) 110,580-813-114-ABCDE W1FMF(+K1RX W1BXM,WA15 F5Z UAV159,892-60-93-ABCD WA10UB(+WA15 GUD RLO) 34,344-42-81-AB

Rhode Island

K1COW/I 10,070-177-53-ABD WA1PBR 1113- 53-21-A WA1SQB/1 147- 21- 7-B K1POM 4- 4- 1-B KIPOM Vermont WIAIM 11,679-229-51-AB WIAIM 11,679-229-51-AB WAIWK 3842-113-34-A KIGYT 544.34-16-B KIGYT 544.34-16-B KIGYT 544.34-16-B WAIWK(WA25 BLM LOA SRI SVR, opri, 47,658-50-94-ABCD WAIWAC(+WAIS JEX NBU TBV, WB2CXC) 18,200-325-56-AB WAIJGK/1(+WAIUPB,WB7CCI) 4935-141-35-AB

Western Massachusetts

WA1UOL 1820- 70-26-AB

WB1CBH 1750-70-25-AB WA1HHN 418-38-11-8 KJJG 54-9-6-8 W15CH/15B-42-8 W25C/1K15DH RGF 2-6-8 W25C/1K15DH RGF 2-6-8 W25C/1K15DH RGF 2-6-8 W252/ASCDH 2-12 W252-ASCDH 2-12 W252-ASCDH 2-12 W252-ASCDH 2-12 W25-12-39-751-127-ABCDE W178W1+W215CCD 1-12 W178W1+W178W1+W215CCD 1-12 W178W1+W178W1 WA1RWU (+WA1s ECR LPJ RLP UQC) UQC) 34,668-403-81-ABD N1HR/1(+WA2JHR) 17,880-274-60-ABCD K1JX/1(+WA1QZH,WB1AVA) 1330- 64-19-BD

Eastern New York

2

Eastern New York W2CRS 35,280-366-90-ABCD W2CRS 35,280-366-90-ABCD W2CXC 6256-122-46-ABD WB2NPR 420-32-12-8D WB2FKJ/2(K23 ARO DNR UKE, W25 HCG KBH YV YWX,WA25 HAQ ZPT,WB25 DVV NCT NKN SUH YQU/95-364-806-108-ABCDE K2CBA(+W2KHQ WA2PVV WB4BMZ) 31,836-340-84-ABCDE

Nestern New York

Avestern New York YA2BPE 8556-186-46-A 2LZF 7980-129-57-ABCD 2MQY 5590-129-13-ABD 2NVV 4620-129-35-ABD 72VVG 21226-85-20-B 72VVG 2122-10-10 722VVG 2122-20-10-10 722VVG 2122VVG 2122-20-10-10 722VVG 2122VVG 212-10-10 722VVG 2122VVG 212VVG 212VVG

13,570-230-59-AB WA2WLH(+WA28 EOW VAM, WB2JWD) 8281-169-49-AB WA2AAZ(K2IWG,WA25 GAI HKR MCD,WB25 F51 TGL/075.) WB2KYQ/2(+WB2HNL) 5643-209-27-AB W2FWS(+WA22WP,WB25 BGI KLD) 4810-130-37-AB WB2ELB(+WA25 JS0 KJE) WB2ELB(+WA25 JS0 KJE) BB2ELB(+WA25 JS0 KJE) 2030-66-29-AE 3

Delaware

3

WA3QPX 10,260-139-60-ABCD K3SXA 1840-85-20-ABCD W3BDP 1440-72-20-AB W2CNS/3/+K2LDU K9LXX,WA2s FQE MZG SEY WVL ZKD ZQN, WB2s BGJ KAO,WA4EVC) 60,950-511-106-ABCDEI Eastern Pennsylvania

Maryland - D.C.

Maryland - D.C. W3TMZ 12,857-231-43-BCD WA3DMF 9108-190-46-ABCD K3HCE 8256-172-48-AB W3XO 6320-158-40-A WB2DNE/3 3745-107-35-A K3AKR 2210-65-34-AB WB3AZH 1344 96-14-B WA3VKI 1204 82-14-BD WA3YKI 13946-95-14-BD WA3YKI 13946-95-14-BD WA3YKI 13946-95-14-BD WA3YKI 1204 82-14-BD WA3YKI 1204 82-14-BD WA3YKI 1204 82-14-BD WA3YKI 13946-91-14-BD WA3YKI 13946-91-14-BD WA3YKI 13946-91-14-BD WA3YKI 13946-91-14-BD W3FFA 126-15-6-ABCD W3FFA 126-15-6-ABCD W3FFA 126-15-6-ABCD W3FFA 126-15-6-ABCD W3PGA/3(K3)RCJ PUH Y2/W33 JEH VRD,WA33 HZJ LAW FHV, WB3BT-015(1)6-162-54-ABCD W3JPT(+WB3EZV) W3EAX(N1QG,WA3YTP,00FS.) 2424-91-24-ABCD WS14DF PennyUkana

Western Pennsylvania

 W3BWU
 3616-113-32-AB

 WA3ANO
 2976 96-31-AB

 W3ANX
 684 57-12-B

 W3DJM
 162 18 9-A

 W3HDH
 126 14 9-A

From November 1977 QST

W3GNR/3(+K3s TFL ZDR,W3IJT, WA3BUX,WB3s DCZ DDA DVR) 5,871:269-59-AB W3QZF/3(K3s OIH LYK,W3s BTX BZN TEF WA3UXP,WB3AAF, oprs.) 15,096-296-51-AB K3HKK(K3s CM RBH,WA3s IFC ZPW,WB3s AEI HKU,oprs.) 6552-156-42-AB

Alabama WD4ILV(+WB4ZYI,WD4s BXT HIB WA5WUX) 96- 12- 8-AB

Georgia

4

WA4NJP 16,510-248-65-ABD WA2JVO/4

WA4UD 16,510246-65-ABD WA2UO/4 9936-184-54-AB WH615 1944 54-27-ABD WH755 1944 54-27-ABD WH4155 1944 54-27-ABD WH4158 1946 42-23-A W4WDH 566-48-10-BD WH4NMA 384-48-8-B K4CK5(+WA4S IBI KPU,WA4AEG) 13,856-28-68-ABD WA4FBH(multiop) M4FBH(5213-62-AB

WA4JQS 11,505-195-59-AB W WA4IPI 684 50-12-BD K W45MU w1 1 1 - 1B W4GSN/4(+WA45 DYL JU-14B W4GSN/4(+WA45 DYL JW-16-47-ABD WB4VLH(+WB4AJD) 5 5625-125-45-A

North Carolina WA4MVI 7191-131-51-ABD WB4LDO 4590-124-34-ABC WB4LDO 4590-124-34-ABC WB4LDA 4590-124-34-ABC K4ROM 4590-112-33-AB K4ROM 4696-112-33-AB K4ROM 1360-54-20-AB WAVHH 1360-54-20-AB WA4VHH 1360-54-20-AB WA4VHH 1360-54-20-AB WA4VEN 445 BVK 07V MASC, WB4LDP 240-20-10-ABC K4HJE/4(+K4CAW,W4GFJ, WA3YC(1WA45 BVK 07V MASC, WB4LDP 240-20-10-ABC WA4VEN/445 BVK 07V MASC, WB4LDP 240-20-10-ABC WA4VEN/454 BVK 07V MASC, WB4LDP 240-20-10-ABC WA4VEN/454 BVK 07V MASC, WH2,WB4S EMG HCP LSJ VMCC, 0PIS, 7869-163-43-ABCD WA4WZ(4(+WA45 AVK W4GEL) W40VD(+K45AN,WA4GEL)

Northern Florida

WB4BSZ	8673-177-49-AB
WD4DTC	7896-168-47-AB
N4UF	1650- 55-30-AB
W4CSS	1113- 53-21-AB
WB4RUT	816- 48-17-AB
W4LJ	40- 5- 4-D

South Carolina

K4KAE		82-39-ABC	
WB4EFZ	2871-	87-33-AB	
WB4UNK	2088-	72-29-AB	
K4GMJ	1920-	60-32-AB	
W4VRV		49-23-A	
W4IQQ/4(I	K4s PX	E SFW.W4s	
BUW LZW	WA4ZO	V,WB4s HK	z
PGG.oprs.)			
		301-61-ABD	
N4JK/4(+V	V4FVV	K4s DBV LI	NU.
WA4s JWS	JWC W	IQ WB45 BU	H

WA4s JWS JWC WJQ,WB4s BU JWR) 6720-160-42-AB K4SAO/4(+N4DT,WA4SKM, WB4BIA) 5379-151-33-ABD

Southern Florida



Tennessee WB4JGG 15,624-248-63-AB

4DF5.0	oprs.)		
4760-1	124-3	5-ABD	
4408-1	112-3	8-ABD	E
3783-	95-3	9-ABE	
<4s BF	GHR	LVV	SE,
ICM N	PB RJ	x vcc	2
BQC K	OH L	.TA O`	YE
FC,WC)4AB	Z,oprs.)
W4s UI	KI WC	DN,WA	4s
IV YFI	∟ Z X I	D,WB4	HKC,
prs.)			
900-	45-2	0-AB	
	4760-3 4408-3 3783- 36- (4s BF ICM NI BQC N FC,WE (8,972- 88,972- (8,972- (12 YFI 12 YFI prs.)	4408-112-3 3783-95-3 36-6-1 K4s BF GHR ICM NPB RJ BQC KOH L FC, WD4AB 8,972-593-7 W4s UKI WC IV YFL ZXI IV YFL ZXI Prs.)	4760-124-35-ABD 4408-112-38-ABD 3783-95-39-ABE 36-6-6-A (45 BF GHR LVV) ICM NPB RJX VCC BQC KOH LTA O FC WD4ABZ.0prs. 8,972-593-77-ABC W45 UKI WON,WA IV YFL ZXD.WB4

Virginia

WA4GPM 21,316-260-73-ABD

K200P/4	
	14,950-211-65-ABCDE
WB4EYP	12.584-234-52-ABC
WA4ZHS	5106-138-37-AB
W4UCH	2720- 69-32-ABCD
K4FTO	2480- 80-31-AB
WA4SBC	1995- 76-19-BD
W4FJ	1596- 43-28-AD
WA4EPI	1144- 43-26-AD
WB4NTV	1127- 49-23-A
K4MSG	924- 42-22-A
W4MHQ	806- 54-13-BD
W40JP	792- 66-12-B
WB4NFB	
K4LHB	50- 5-5-C
WB4JGY	
K4FJW(+	WB4BGQ)
	5371-131-41-AB

Arkansas

WA2QUI/5 WB5YNB 3256-88-37-A K5MWH 915-53-15-BD WA5UMP/5(+WB4LHD,WA5BHS) 22,576-332-68-AB

Louisiana

WA5UUD 16,536-312-53-A K4CHE/5 13,496-238-56-ABD WB5LBT 304-37-8-BD

New Mexico

W5TRB 15,276-268-57-A W5IXR 4140-115-36-A WB5AOX 2- 2- 1-B Northern Texas

K5GMX 20,876-307-68-AB WB5LUA 2106-100-18-BDE WB5FCR 1035-45-23-A WB5RPU 112-16-7-B

Oklahoma

WB5UQH 30,858-417-74-AB WA5VHN 14,734-278-53-AB K5CM(+K5s BXG LUR SW,W5SXD) 56,028-667-84-AB

Southern Texas

WA5HNK WA5QCP 12,366-229-54-A WA5IYX 3960-99-40-A WB5HRI(+W5TQN,WA5QOD,WB5s FQJ HNC NXH) 20,435-320-61-ABCD N5AF(+W5LVL) N5AF(+W5LVL) WA5EIW(+WA5TBE) WA5EIW(+WA5TBE) 273-35-7-BD

6

East Bay W6BXO 16,500-237-60-ABCDE

K6ITZ 1647- 61-27-A	Idaho	KH6JDZ/W8	WB9NTL 5776-152-38-AB	WBØWSX 168-21-8-B
K6ITZ 1647-61-27-A WA6VEF 348-56-6-BD WB6KBZ/6(+WA6HC1,WB6BYI) 33,288-404-73-ABCDE	K7057/7	9300-186-50-A WA8EUU 7661-159-47-ABD	WA9PKL 5754-137-42-AB WB9OLE 3424-107-32-AB	WBØWSX 168-21-8-B KØKKV(KØGND,WAØWRI,WBØs GOM VEN YER,oprs.) 6248-142-44-A
33,288-404-73-ABCDE	10,718-233-46-AB WA7UHW 6120-153-40-A WA7YAX 1600- 64-25-AB WB7NXQ 99- 11- 9-A	WA8EOW 2380- 68-35-A WA8ZCO 585- 36-15-ABD WB8FEZ 584- 73- 8-B	K9SLQ 1704-142-12-B WB9RAB 44- 11- 4-B WB8HUC/9(WB8s GEU GEW GEX	
WB6OKK	WA7YAX 1600- 64-25-AB WB7NXQ 99- 11- 9-A	WB8AAX 560-70-8-B K8BGZ 496-62-8-B WB8TGY/8 221-17-13-A	GEY GFA,oprs.) 26.270-370-71-AB	North Dakota
WB6OKK 31,326-419-69-ABCD K6KH 32 8- 2-C K6BPC(WA6HXD,WB6YVP,oprs.) 9196-242-38-AB	Montana	WB8TGY/8 221-17-13-A W8MRM/8(WA8HGX,WB8RNY, oprs.) 18,424-323-56-ABD W8YDK/8(WA8sWOGYUZ,oprs.) 4107-111-37-AB	GEY GFA,oprs.) 26,270-370-71-AB W9JUQ(K9JRK,WA9DFZ,WB9s BGM HVJ SLD,oprs.) 506- 46-11-AB	WAØCSL 21,808-376-58-A WBØNST 68- 17- 4-B
	K7OFT/7 10,718-233-46-AB	W8YDK/8(WA8s WOQ YUZ,oprs.) 4107-111-37-AB	Wisconsin	South Dakota
Orange	W7JF 10,578-246-43-A	Ohio	WB9OPD 16 531-271-61-0	KØVXM 8096-176-46-AB WBØULX 2294- 62-37-AB WAØVPY(+KØAG,WAØNRE,WBØJHD)
W6ABN 3528- 83-36-AD WB6MFW 490- 70- 7-B	Nevada	WA8CLN	16,531-271-61-A K9OXY 13,908-223-61-ABD WA9LZM	WAØVPY(+KØAG,WAØNRE,WBØJHD) 29,848-533-56-AB
K6IBY 96- 8- 6-C W6XT(+N6MN,W6PKY,WB6TIY) 6422-214-19-ABC	K7ICW 17,236-278-62-AB K7NV 14,040-234-60-A	28,684-404-71-AB	12,768-224-56-AEF WA9KVS	
	K7NV 14,040-234-60-A K7ZOK 5292- 95-54-ABD W6YKM/7(+K6s KLY LXO,WA6JUD 28,152-371-72-ABCD) WB8IGY	11,400-190-60-A WA9QVK	Canada
Santa Barbara	28,152-371-72-ABCD	WA8TLZ 4305-114-35-ABD W1GUD/8 3200-100-32-A	10,248-183-56-AB WA9KGQ 9360-195-48-AB WB9OQD 3040- 95-32-A	Maritime-Newfoundland
WB6IDK 2987-102-29-ABC W7KRY/6 1173- 51-23-AB W6AMT(WB6s ASR FER GQR	Oregon	WBBIGY 13,570-222-59-ABD WASTLZ 4305-114-35-ABD WIGUD'8 3200-100-32-A NBTM 2880-96-30-AB WASTJL 1919-95-19-BD K&DIG 912-69-12-BD WASTX 852-71-12-AB WBGOH 603-67-9-B WBBIEA 441-63-7-B WBJRN 336-49-6ABC	W9YYF 2060-91-20-BD WB9JUD 1357-59-23-A	VE1ASJ 9152-208-44-AB VO2AG 5125-205-25-A
W6AM 1 (WB65 ASR FER GQR RAL RIV,oprs) 55,063-596-79-ABCD W6OAL/6(+WAGEJO,WB6IMM) 6556-138-44-ABD	WA7RTA 14,872-265-52-ABCD	K8UQA 1696- 53-16-D K8DIO 912- 69-12-BD	WA9JFM 1250-125-10-B WA9CUH 217- 31- 7-B	Guebec
W6OAL/6(+WA6EJO,WB6IMM) 6556-138-44-ABD	WA7TDU 6624-143-46-ABD W7JXU 5247-159-33-A	W8GOH 603- 67- 9-B W88IEA 441- 63- 7-B	•	VE2YU 24.115-357-65-ABDE
Santa Clara Valley	WA7RTA 14,872-265-52-ABCD WA7TDU 6524-143-46-ABD W71XU 5247-159-33-A W7TYR 4794-136-34-ABCD W7NFC 2106-78-27-A K7HSJ 2104-48-23-A K7HSJ 104-48-23-A K7HSJ 2104-48-23-A K7HSJ 210-	K3ZAP/8 180- 45- 4-B	Colorado	VE2SH 12.650-261-46-ABDF
WACOVE	WA70BY 819- 39-21-A K7AUO/7(K7UUH,W7s ADV BKN	W8IM 68-17-4-B W8VP(K8AL,WA8AHD,WB8s	WAØTVZ	VE2KW 120- 20- 6-B VE2AQI 18- 6- 3-B
11,808-191-48-ABCDE K6FV 11,466-204-49-ABCD		AHV AKI KTK LVJ,oprs.)	22,935-417-55-AB	VE2RM(VE2s BBK BMQ BQF DRT, oprs.) 564-80-6-BD
K6QAX 7497-153-49-AB K6DTR 7426-154-47-ABC	22,568-398-52-ABCDE	W8CCI (W8ULC, WA8s WQC WVT, oprs.) 19,952-344-58-A	13,356-252-53-A WA8GUB/Ø 9802-169-58-A	Ontario
WB6ZGY/6(+W1ARR,WA6s BMV HJV VEF,WB6SHD) 15,582-292-49-ABCD	Utah	WBIM 68- 17- 4-B W8VP(K8AL,WA8AHD,WB8s ERB ONY SXT TSI UXX,WD8s AHV AKI KTK LVJ,oprs.) 29,808-452-69-AB W8CCI(W & WLC,WA8S WQC WVT, oprs.) 19,952-344-58-A WA8PL2(WA3OJX,WB4YIH,WA8s DZU LTA SVV,WB8S NZM TPD, WD8MSF oprs.)	WBØVGC 6840-171-40-A WØDYB 4641-119-39-A	VE3BQN(VE3ABG.opr.)
13,362-232-45-600	W6LEV/7(+WA6MMU) 168- 19- 8-BD	D20 LTA 50 0, WB8 N2M TPD, WD8MSF,oprs.) 17,980-298-58-ABCD WA8WCW/8(+WA8PBF) 3392-106-32-AB	WBØYSJ/Ø 14-14-1-B	VE3BQN(VE3ABG,opr.) 15,000-224-60-ABCDE VE3EYR 4680-112-40-ABD
San Diego	108- 19- 8-BD	3392-106-32-AB	lowa	VE3CRA 3040- 80-38-A VE3FHM 2970- 86-33-ABD VE3CKU 2754- 81-34-AB
WA6AWM	Washington	West Virginia	WØSI 9064-206-44-A WBØNZA 6900-138-50-AB	VE3FN 1716- 78-22-B VE3EVW 1200- 48-25-AB
20,770-310-67-AB	-	-	WBONZA 6900-138-50-AB	VE3FN 1716- 78-22-B
20,770-310-67-AB	-	W8AEC 5568-96-48-ABD K3LNZ/8(K3S AAF DUA LFO WA3S FOD NTLOW K41 LB W495	WBONZA 6900-138-50-AB	VE3FGU 1105- 85-13-5 VE3AU 627- 57-11-B VE3AIB 450- 46- 9-BCD VE3GLD 48- 16- 3-B VE3ONT/3(VE3S APH ASO DSS EMS
20,770-310-67-AB	W7HR 16,330-336-46-ABCD W7UGK 4644-161-27-ABC K7VNU 4560-152-30-AB W7E1V 3276-126-26-AB	W8AEC 5568-96-48-ABD K3LNZ/8(K3S AAF DUA LFO WA3S FOD NTLOW K41 LB W495	WBQNZA 6900-138-50-AB KØMST 5480-137-40-AB WBQJTH 3290-94-35-A KØDAS 470-46-10-BD WØRAP 246-41-6-B WAØDXZ 155-31-5-B	VE3FGU 1105- 85-13-5 VE3AU 627- 57-11-B VE3AIB 450- 46- 9-BCD VE3GLD 48- 16- 3-B VE3ONT/3(VE3S APH ASO DSS EMS
20,770-310-67-AB N6CW 11,607-219-53-A WB6FTW/6 88-22-4-B W6XJ/6(+166+1A-1)-5-AB W6XJ/6(+166+1A-1)-5-AB W6XJ/6(+166+1A-1)-97-ABC W66AJK,0454-97-97-ABCDE W66AJK,WA65 MFM PKS.WB6GUI	W7HR 16,330-336-46-ABCD W7UGK 4644-161-27-ABC K7VNU 4560-152-30-AB W7FQE7 1634-86-19-AB W7PQE7 1634-86-19-AB W47QEW 1463-77-19-AB W47UEW 1463-77-19-AB W47UEW 26-30-83-15-ABD	-	WBQNZA 6900-138-50-AB KQMST 5480-13740-AB WBQJTH 3290-94-35-A KQDAS 470-46-10-BD WQRAP 246-41-6-B WAQDXZ 155-31-5-B Kansas	VE3EYN 1716-78-22-8 VE3EYN 1200-88-25-AB VE3FGU 1205-85-13-8 VE3AU 627-57-11-8 VE3AU 627-57-11-8 VE3AU 627-57-11-8 VE3AU 73(VE33-64-9-8CD VE3CH73(VE33-64-ABCD VE3FHK(+VE3FHU) VE3FHK(+VE3FHU) VE3FHK(+VE3FHU)
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