

VE3BMV (I.) managed 367 QSOs in 68 sections for a final score of 50,524. This was more than enough to take Canadian Division leadership and places Yuri as 7th among the TOP TEN participants! Earl, W5RTQ (r.) is back again this year as West Gulf Division leader with 175 QSOs in 57 sections!

Results 2nd ARRL 160-Meter Contest

REPORTED BY AL NOONE, *WAIKQM

IN A CONTINUING effort to arrive at a better set of rules for this popular new activity, the 2nd ARRL 160-Meter contest (held Dec. 10-12, 1971) incorporated a number of changes (recommended by the ARRL Contest Advisory Committee) designed expressly to increase participation. The starting time was moved up to 2200 GMT and each DX country (not including KG4 KP4 KV4 etc. which already count as sections) was counted as a separate multiplier.

Did the changes help? You bet! While entries remained at about the same level as last year, 272 to be exact; there were upwards of 1000 different

*Asst. Communications Mgr., ARRL.



calls noted in the logs sent in to Hq.! (A number of stations commented that the activity seemed almost like a November Sweepstakes at times!)

Even conditions were good to us. East coast stations were able to work into Europe both nights, the West coast gang took advantage of the excellent KH6 activity, caught that occasional JA, KR8 and VS6 and the Central states kept busy cleaning up those section multipliers!

As for DX, well here's just a sample of what was available to work: CO, EI, G, GM, HB9, HB \emptyset , JA, KR8, OK, PA \emptyset , PY, VK, VP9, YN, ZD8 and 8P6. Wonder what the list would be like if all the active stations sent in logs? Oh well, maybe next year!

Some 72 stations have earned certificates as either section or country winners. You can expect them shortly after their June 15th mailing. -WA1KQM.

TOP TEN

Single Operator: W3GM 72,200 - 76 multipliers; W3IN 68,406 - 78; K1PBW 66,300 - 78; WØAIH 61,028 - 73; W9DL 59,427 - 71; W9YT (K9LBQ, opr.) 54,270 - 67; VE3BMV 50,524 - 68; W8DB 45,560 - 68; K8KHB 43,485 - 65; and VE5XU 43,470 - 70.

TOP FIVE

Multioperator: W8LT 47,718 - 66 multipliers; K3RUQ 40,257 - 63; K8BYI 37,210 - 61; W9YB/9 33,630 - 59; and KØIJL 30,180 - 60.

SOAPBOX

Fine contest, seemed that there was more activity than last year although my total score turned out about the same. Heard North and South Dakota, Missouri, Montana, North Texas, KV4FZ and some Californians that I just could not seem to work. Did QSO South Texas, Utah, Colorado and Mississippi. (W1FLN). . . The highlight of the

Frank, HB9NL managed 31 QSOs with 14 sections located as far West as W8/9! His FB signal was audible for many hours on the East coast.

DIVISION LEADERS				
Single Op.		Multiop.		
W3GM W9DL WØAIH WSSUS W8DB W2EQS WØNFL K1PBW K7IDX W86QIT K4CIA WAØCVS W4YWX W7NQ WSRTQ	Atlantic Central Dakota Delta Gr. Lakes Hudson Midwest New Engl. Northwest Pacific Roanoke Rocky Mt. Southeast Southwest West Gulf	K3RUQ W9YB/9 KØIJL W8LT K2STO W1OP K7AUO W4UPJ WØMS W4HAW W6YY K5DEG		

contest was the QSOs with KL7HEE and WAØZQB/KL7 to complete my 1.8 Mhz WAS. Managed to work HB9NL and PY1DVG through Window." Somehow more emphasis must be made to keep this portion of the band open for the DX stations to use. Also, the W/VEs should be reminded that the DX there is listening between 1800-1807 for replies, not on their frequency. No Asians heard, JA frequencies covered by Loran Astants heard, JA nequencies covered by Loan here. (W9PNE). . . Conditions were very good the first night, and excellent the second. The allocation of the band with everybody on the low end is just great. Climax to the test was working VS6DO! (W7CFJ, opr. W7NQ). . . Worked 60 ARRL sections in 42 states, including Hawaii. Biggest thrill of all was when ZD8AY answered my CQ. In addition, I worked Mexico and Brazil. I would like to make skeds (weekends-night time would like to make skeds (weekends-night time only) with any 160-meter stations in Maine, Vermont, New Hampshire, Idaho, Montana, Ore-gon, Wyoming and Alaska. (K5AGI/5). . . New 95-foot vertical has lots more punch than last year's long wire. (W3IN). . . The contest went very well, and was a lot of fun for everybody. The obscrete evert the first one were well received DX changes over the first one were well received. DX stations felt a bit left out, and the participation from DX was low. (W1BB). Would be nice to modify the rules again so as to increase DX participation and interest. Increasing the DX QSO point count or providing additional multipliers for continent to continent QSOs might help. (K1PBW). Big thrill to hear JA7AO calling CQ with a good signal, big frustration not being able to work him. (KØDCF/Ø). . . Thought this years contest had much better conditions, and certainly, were the VEs and DX? (WØII). . . The conditions on December 12 morning here on TOP BAND was fantastic and so I could work many stations from the states never before worked or heard. But the Ws were not listening for Europeans all, like the W9s and especially the W9s! The W9BE and W\$AIS

Here's Jarda, OK1ATP, well-known TOP BAND enthusiast from Czechoslovakia. His 10 watts to a dipole netted him 10 QSOs with 7 East-coast sections.

9th Aves

No wonder WØAIH was heard in Europe! The antenna to the left of the picture is a 137-foot vertical fed against over 2000 feet of ground-wire radials!

are here 579 between 0500 and 0600 GMT on the 12th. I also noted W3DA, KIGSU, WA8JUN, and W9YT. For 1.8, 3.5 and 7 MHz I have a 80-meter zepp or a 160-meter dipole, not high, but bent down by about 30 degrees in the direction of the USA. The best frequencies for Ws are 1802 -1804 here, but the broad-band fone stations commercially are QRMing very often if the band is not open good for DX. (HB9NL). . . The frequencies from 1830-1835 here in Australia are usually clear, so during these 160-meter contests, I would suggest during these roometer contests, r would suggest using the Europeans DX Window for Australia stations as well. On December 12th heard W8VLN S4 at 1215Z, W5RTQ S6 at 1246Z and W9EIU/9 S4 at 1255Z. (VK3QI). . . Suggest change in the rules to allow DX to DX QSOs only if the station QSOd is on another continent. Of course, any DX to W/VE would be allowed, such as XE to W(same continent). (W5RTQ) . . . Conditions were very good, heard W7 stations and one European. (W1QV). . . Enjoyed the contest very much and have no suggestions for improvement. Antenna was a 130-foot long wire that snaked out of the basement over the air-conditioner, through the tower legs, up the tower for 32 feet and then down to the roof of the house! (KØDYM). . . Didn't hear any DX but did manage to work a lot of needed USA stations for my 160-meter WAS! (WA3OFT). . . Seemed like one heck of a lot of activity. (W8LT). . .

2nd ARRL 160-Meter Contest

Within each section, scores are broken down by callsign, final score, contacts, sections and operating time. Example of listings: VE1ASJ 38,324-268-67 or final score of 38,324, number of contacts 268, number of multipliers 67 and total operating time not given. An asterisk denotes a Hq. staff member, ineligible for an award. The station first-listed under each section or non-W/VE country is the award winner. Multi-operator stations are grouped in order of score following single-operator station listings in each section tabulation.



June 1972

VE			
Ma	ritime		
VEIASJ	38,324-268- 67		
O	ntario		
VE3BMV	50,524-367-68		
VE3DU VE3BVG	11,610-129-45-13 2024- 46-22-14		
	tchewan		
VE5XU	43,470-306-70-33		
	Columbia		
VE7AKI VE7HQ	11,562-123-47 8424-108-39		
	on-N.W.T.		
VE8OK	1512- 33-21-		
LOOK	1312- 33-21-		
	USA		
	1		
Con	necticut		
KIKSH	31,354-248-61-23		
WISG WA1PID*	23,040-234-48-17		
WAILD	10,920-140-39-12		
WØDRE/1*			
WIWY	5394- 87-31-6 5130- 63-38		
WA7GWL/1*	5150- 05- 50		
	4719- 67-33- 6		
W1QV W4WIFL/1*	4620- 77-30- 3 1349- 31-19- 4		
KIZND/I	644- 23-14-1		
WA1KQM/1*	504-15-14-3		
WA8VRB/1*	32- 4- 4		
Eastern M	lassachusetts		
WIPL	12,768-146-42-16		
W1FJJ WA1CTT	8931-113-39-7		
WIDMD	7992-111-36-26 7860-131- 30		
WIBB	7548- 93-37-11		
W1FJN W1AX	7400-100-37-7 6400-100-32-6		
WIDDC	3120- 65-24-10		
WICVO	7676 176 21 11		
WIMX (WAIC	2023-123-21-11 QW, opr.) 2175- 42-25- 1		
WIBVL	1080- 30-18- 3		
WALLED	944- 28-16-6		
W1BGD/1	750- 25-15- 1		
New H	ampshire		
WICTW	3400- 68- 25		
Rhod	le Island		
KIIKN	15,480-172-45-15		
WIFLN WIOP (K1s H2	12,040-149-40-18		
with (kishi	3264- 68-24-11		
Western N	lassachusetts		
KIPBW	66,300-371-78-29		
	2		
Eastern	New York		
W2LWI	13,185-145-45-15		
K2VGR	9152-143-32-17		
N.Y.	CL.I.		
K2GNC	34,692-279-59-25		
W2KTU	11,505-146-39-22		
W2GP WB2MIFZ	6293-100-31 960-32-15-9		
	New Jersey		
W2EQS	36,642-285-62-31		
WB2URU	9800-140-35-18		
W2AQT	6900-115-30		
W2HUG	6000-100-30-7		
WB2OZW W2GBY	4480- 80-28- 8 4060- 70-29- 8		
WA2CCF	728-26-14		
W2CVW WA2KWB/2			
K2STO (+WA2	468-18-13-1 (FGF)		
	2814- 67-21-17		

68

South	ern New Jersey	
K2GAL	28,728-252- 56	KG4CS
W2FJ W2BP	26,880-237-56-20 1160- 26-20- 2	
W2ITG	1140- 30-19- 4	
WA2KWB	8- 2-2-1	W5SUS
WA2EEQ (+		W4EM/5
West	100- 10- 5- 5	
K2LWR	ern New York 40,105-307-65-20	
W2VXA	4712- 76- 31	K5AGI/5
W2ONP	4650-75-31-17	W5MPX
K2PKK W2QBB	3807- 69-27- 6 384- 16-12- 4	K5AJK
WB2TCY (+		
	13,065-166-39-12	W5RUB
	3	W5GWD
1	Delaware	
W3AGC	21,114-201-51-16	WB5BHN W5RSZ
Easter	n Pennsylvania	WORSZ
W3GM	72,200-451-76-32	W5QGZ
W3EOP	35,620-262-65-20	W5FIX
W3CNS WA3OFT	12,597-160-39-10 8896-139-32-23	W5JKD
W3ADE	8400-120-35-15	W5KYD K5SOR (
W3AJS W3QOR	4375- 86-25-18 1932- 42-23- 3	K3SUK (
W3IN	ryland-D.C.	K5JVF
W3IN W3GN	68,406-422-78-25 19,110-195- 49	
	A3NYU,WA4DUS)	W5RTQ
	40,257-312-63-37	W5RUD
Wester	n Pennsylvania	WA5ZNY
W3VEQ	26,316-258-51-23	W5RPJ W5IRP
W3UHP W3SN	8320-130-32-18 5022- 81-31- 7	K5HGB/
W3KWH (W	3SVJ, opr.)	K5DEG (
	672-24-14-9	W5YG (7
	4	
	4	
	Alabama	
W4KVC	Alabama 26,314-223- 59	
W4KVC K4MG	Alabama 26,314-223- 59 3380- 65-26-11	K6ILG
W4KVC K4MG WB4ADT	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3	K6ILG
W4KVC K4MG WB4ADT	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida	
W4KVC K4MG WB4ADT East W4BRB W4OZI	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9	W6HX W6DGH
W4KVC K4MG WB4ADT East W4BRB W40ZF WB4JI K	Alabama 26,314-223-59 3380-65-26-11 2756-53-26-3 tern Florida 24,255-216-55-24 11,790-131-45-9 1760-40-22-11	W6HX W6DGH K6DDO
W4KVC K4MG WB4ADT East W4BRB W40ZF WB4JFK WB4UCE	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12	W6HX W6DGH K6DDO W6DQX
W4KVC K4MG WB4ADT East W4BRB W4OZF WB4JFK WB4UCE W4HAW (7 d	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 opprs.) 6876- 94- 36	W6HX W6DGH K6DDO W6DQX WA6MBP W6JPH
W4KVC K4MG WB4ADT East W4BRB W40ZIF WB4JIFK WB4JIFK WB4UCE W4HAW (7 d	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 opps.) 6876- 94- 36 Georgia	W6HX W6DGH K6DDO W6DQX WA6MBP W6JPH W6ZOL
W4KVC K4MG WB4ADT East W4BRB W40ZI W84JI K WB4UCE W4HAW (7 0 W4YWX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-21-11 400- 20-21-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31	W6HX W6DGH K6DDO W6DQX WA6MBP W6JPH
W4KVC K4MG WB4ADT East W4BRB W40ZI WB4JI K WB4UCE W4HAW (7 of W4YWX WB4YCP	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22	W6HX W6DGH K6DDO W6DQX WA6MBF W6JPH W6ZOL K5MHG/
W4KVC K4MG WB4ADT East W4BRB W40ZI W84JI K WB4UCE W4HAW (7 0 W4YWX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19	W6HX W6DGH K6DDO W6DQX WA6MBF W6JPH W6ZOL K5MHG/
W4KVC K4MG W4AADT W4BRB W4OZIF W84UCE W84UCE W4HAW (7 6 W4YWX W84VCP K4BAI K5SNI/4	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11	W6HX W6DGH K6DDO W6DQX WA6MBP W6JPH W6ZOL K5MHG/ W6YY (K
W4KVC K4MG W44ADT East W40ZI- W40ZI- W84UCE W41AW (7 6 W41WX W44VCP K4BAI K5SNI/4 W4DXI	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11	W6HX W6DGH K6DDO W6DQX W6DQX W6DQX W6DQX W6DQX W6ZOL K5MHG/ W6ZOL K5MHG/ W6YY (k WB6NRk W6AMO
W4KVC K4MG W4ADT East W4DZF W4DZF W4JZF W4JVCE W4UCE W4UCE W4YWX W44YCP K4BAI K5SNI/4 W4DXI	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Kentucky	W6HX W6DGH K6DDO W6DQX WA6MBP W6JPH W6ZOL K5MHG/ W6YY (K
W4KVC K4MG W4BRB W40ZF W40ZF W40ZF W4UCE W4HAW (7 of W4YWX W44YCP K44FU	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-911 Scentucky 41,990-323-65-20	W6HX W6DGH K6DDO W6DQX W60PH W62DL K5MHG/ K5MHG/ W6YY (k WB6NRk W6AMO K6QGV
W4KVC K4MG W4BRB W40ZF W40ZF W40ZF W4UCE W4HAW (7 of W4YWX W44YCP K44FU	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Kentucky	W6HX W6DGH K6DDO W6DQX W6DQX W6DQX W6DQX W6DQX W6ZOL K5MHG/ W6ZOL K5MHG/ W6YY (k WB6NRk W6AMO
W4KVC K4MG W4BADT W4BKB W4OZIF W4DZIF W84UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W84YCP K4BAI K5SNI/4 W4DXI W4YOK (+K	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Kentucky 41,990-323-65-20 (4DWO,W4TBU)	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YL K5MHG/ W6YY (k WB6NRK W6AWC K6QGV W7DOL/
W4KVC K4MG W4BADT W4BKB W4OZIF W4DZIF W84UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W84YCP K4BAI K5SNI/4 W4DXI W4YOK (+K	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Kentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12	W6HX W6DGH K6DDO W6DQX W62OL K5MHG/ W6YY (k WB6NRk W6YY (k WB6NRk W6AMO K6QGV W7DOL/
W4KVC K4MG W4BRB W40ZF W40ZF W4DZF W4UCE W4UCE W4HAW (7 of W4YWX W84YCP K4BAI K5SNI/4 W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YL K5MHG/ W6YY (k WB6NRK W6AWC K6QGV W7DOL/
W4KVC K4MG W4BRB W40ZF W4DZF W4DZF W4UCE W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W84YCP K4BA1 K5SNI/4 W4DXI W4DXI K4FU W4YOK (+K Nor K4CIA W4TMR K4CAX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 trt Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11	W6HX W6DGH K6DDO W6DQX W62OL K5MHG/ W6YY (k WB6NRk W6YY (k WB6NRk W6AMO K6QGV W7DOL/
W4KVC K4MG W4B4ADT W4B4B W4OZIF W4DZIF W4DZIF W4DZIF W4UCE W4HAW (7 of W4YWX W4UCE W4HAW (7 of W4YWX W4QCE W4HAW (7 of W4YWX W4QCE W4HAW (7 of W4YWX W4DXI W4CZIF W4DXI W4TXX W4DXI W4DXI W4TXX W4DXI W4TXX W4DXI W4TXX W4TXX W4TXX W4TXX W4DXI W4TXX W4 W4 W4 XXXXX W4 XXXXXXXXX XXXXXXXXX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 tth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee	W6HX W6DGH K6DDO W6DQX WA6MBF W62OL K5MHG/ W6YY (k W86YY (k W86NRk W64NO K6QGV W7DOL/ Sa W86QIT
W4KVC K4MG W4BRB W40ZF W4BRB W40ZF W4JFK W4UCE W4HAW (7 of W4YWX W44YCP K4BAI K4SSNI/4 W4DXI W4DXI W4DXI W4DXI W4DXI W4DXI K4FU W4VOK (+K Not K4CIA W4TMR K4CAX T K4PJ	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 optrs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DW0,W4TBU) 19,864-191-52-12 th Carolina 36,462-306-59-21 30,942-285-54-30 6622-101-31-11 ennessee 27,189-237- 57	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YU (k W50HG/ W6YY (k WB6NRk W6AMO K6QGV W7DOL/ Sa WB6QIT W6GWQ
W4KVC K4MG W4B4ADT W4B4B W4OZIF W4DZIF W4DZIF W4DZIF W4UCE W4HAW (7 of W4YWX W4UCE W4HAW (7 of W4YWX W4QCE W4HAW (7 of W4YWX W4QCE W4HAW (7 of W4YWX W4DXI W4CZIF W4DXI W4TXX W4DXI W4DXI W4TXX W4DXI W4TXX W4DXI W4TXX W4TXX W4TXX W4TXX W4DXI W4TXX W4 W4 W4 XXXXX W4 XXXXXXXXX XXXXXXXXX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 tth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YU (k W50HG/ W6YY (k WB6NRk W6AMO K6QGV W7DOL/ Sa WB6QIT W6GWQ
W4KVC K4MG W4BRB W40ZF W4BZF W40ZF W4UCE W4UCE W4HAW (7 of W4YWX W84YCP K4BAI K4SSNI/4 W4DXI W4VOK (+K Noi K4CIA W4YOK (+K Noi K4CIA K4CAX T K4PJ W4UD W40QG	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237-57 7400-100-37-8 1482- 39-19- 3	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YU (k W86NRK W64YY (k W86NRK W64YY (k W86NRK W64YY (k W86QV W7DOL/ Sa W86QIT W6GWQ W6ISA (1
W4KVC K4MG W4BRB W40ZF W4DZF W4DZF W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W84YCP K4BAI K5SNI/4 W4DXI W4DXI W4DXI K4FU W4YOK (+K Noi K4CIA W4TMR K4CAX T K4PJ W4UD W40QG	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 optrs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DW0,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 ennessee 27,189-237-57 7400-100-37-8 1482-39-19-3 Virginia I8GJ, opt.)	W6HX W6DGH K6DDO W6DQX W62DL K5MHG/ W62YY (K W86NRk W64YY (K W86NRk W64MO K6QGV W7DOL/ Sa W86QIT W6GWQ W6ZO
W4KVC K4MG W4BRB W40ZF W4BIFK W40ZF W4UCE W4HAW (7 of W4YWX W44YCP K4BAI K4YCP W4YOK (+K Noo K4CIA W4TMR K4CAX T K4PJ W4UD W4OQG	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237- 57 7400-100-37- 8 1482- 39-19- 3 Virginia IRGJ, opr.) 33,420-274-60-26	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62YU (k W86NRK W64YY (k W86NRK W64YY (k W86NRK W64YY (k W86QV W7DOL/ Sa W86QIT W6GWQ W6ISA (1
W4KVC K4MG W4BRB W40ZF W4BHFK W40ZF W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W84VCP K4BA1 K5SNI/4 W4DXI W4DXI W4DXI W4DXI W4DXI K4FU W4YOK (+K Noi K4CIA W4TMR K4CAX T K4PJ W4UD W40QG K4CG (WA8	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Xentucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237- 57 7400-100-37- 8 1482- 39-19- 3 Virginia iRGJ, opr.) 33,420-274-60-26 9800-140-35- 7	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W62VL K5MHG/ W6YY (k WB6NRk W6AMO K6QGV W7DOL/ Sa WB6QIT W6GWQ W6ISA (I W6MAR W6NUT
W4KVC K4MG W4BRB W40ZF W40ZF W40ZF W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W44YCR K4FU W4YOK (+K Noo K4CIA W4DXI W4VOK (+K Noo K4CIA W4TMR K4CAX T K4PJ W4UD W40QG K4CG (WA8 K4JM W4KXV W4ZM	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237- 57 7400-100-37- 8 1482- 39-19- 3 Virginia IRGJ, opr.) 33,420-274-60-26	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W6YY (K W6YY (K W6YY (K W6YY (K W6YY (K W6YY (K W6YZ (K W6ONR) W7DOL/ Sa W56QIT W6GWQ W6ISA (I W6MAR W6NUT W6MTJ
W4KVC K4MG W4BRB W40ZF W4BJFK W40ZF W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W40ZF W4HAW (7 of W4YWX W44CE W4YOK (+K W4DXI W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXXX W4DXXXX W4DXXXXXXXXXX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 opps.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 th Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237-57 7400-100-37-8 1482-39-19-3 Virginia IRGJ, opr.) 33,420-274-60-26 9800-140-35-7 3538-61-28-3 2754-51-27-2 986-29-17-4	W6HX W6DGH K6DDO W6DQX W6DPH W62DL K5MHG/ W6YY (K W6YY (K W6YY (K W6YY (K W6YY (K W6YZ (K W6YZ (K) W6O W6ISA (I) W6ISA (I) W6MAR W6NUT W6MIJ Sa
W4KVC K4MG W4BRB W40ZF W4BJFK W40ZF W4UCE W4HAW (7 of W4YWX W84UCE W4HAW (7 of W4YWX W40ZF W4HAW (7 of W4YWX W44CE W4YOK (+K W4DXI W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXX W4DXXXX W4DXXXX W4DXXXXXXXXXX	Alabama 26,314-223- 59 3380- 65-26-11 2756- 53-26- 3 tern Florida 24,255-216-55-24 11,790-131-45- 9 1760- 40-22-11 400- 20-10-12 oprs.) 6876- 94- 36 Georgia 42,746-316-67-31 18,236-194-47-22 16,254-192-42-19 13,981-169-41-11 6981- 88-39-11 Centucky 41,990-323-65-20 (4DWO,W4TBU) 19,864-191-52-12 rth Carolina 36,462-306-59-21 30,942-285-54-30 6262-101-31-11 'ennessee 27,189-237-57 7400-100-37-8 1482- 39-19-3 Virginia 33,420-274-60-26 9800-140-35-7 33,5420-274-60-26 9800-140-35-7 3538- 61-28-3 2754-51-27-2	W6HX W6DGH K6DDO W6DQX W62QL K5MHG/ W6YY (K W6YY (K W6YY (K W6YY (K W6YY (K W6YY (K W6YZ (K W6ONR) W7DOL/ Sa W56QIT W6GWQ W6ISA (I W6MAR W6NUT W6MTJ

West	Indies	Sacran	nen to Valley
4CS	6120- 90-34-12	W6ZGM	9064-103
	5	W6NKR	6952-79
Ar	kansas	I	Hawaii
SUS	34,176-267-64	KH6RS (K2S	
EM/5 (W40	QG, opr.)	КН6НСМ	8820- 95
	6664- 98-34- 5	кпопсм	1760-37
Lou	iisiana		7
AGI/5			rizona
мрх	33,831-264-63 5848-86-34-16	W7NQ (W7C	
AJK	1140- 30-19	W7GAF	40,324-280 8600-100
	issippi	K7NEQ	7896- 94
RUB	14,798-151-49- 7		Idaho
GWD	864- 24-18-14	W7HZL	8400-100
New	Mexico	M	ontana
5BHN	12,190-115-53-16	W7MKB	4030- 65
RSZ	896- 28-16- 1	,	Nevada
Nort	h Texas	K7ICW	13,328-136
QGZ	5824- 91-32- 9	W7QJV	1008- 42-
FIX JKD	5032- 74-34-11 1943- 67-29	(Dregon
KYD	690-23-15	W7IMP	1190-35
SOR (5 opr	s.)	W7LT	102-17
	23,256-204-57-35	K7AUO (5 oj	prs.) 10,240-128
Okl	ahoma		
JVF	6438- 87-37-21	K2D A I	L (ah
Sout	h Texas	K7RAJ K7ZIA	26,082-207
RTQ	20,292-175-57-12	W7CYH	5670- 81
	18,312-162-56-26	WA7OAU	4352- 68
.5ZNY RPJ	13,622-139-49-18 8080-101-40-17	Wa	shington
IRP	1512- 36-21-	K7IDX	14,469-132
HGB/5	816- 24-17- 3	W7RX W1BVP/7	4234- 73-
DEG (+K5P	1°L) 30,031-253-59-30	WIDVE//	3364- 58-
YG (7 oprs.)	WA7QYI	1470-49
	15,850-157-50-30	K7UWT	440- 22
	6		yoming
Eas	6 t Bay	W7HLA	yoming 264-12
Eas ILG	-	W7HLA	264- 12 Alaska
ILG	t Bay 9512-116-41-20	W7HLA	264-12 Alaska 7
ILG Los /	t Bay 9512-116-41-20 Angeles	W7HLA	264- 12 Alaska .7 624- 23
Los / HX DGH	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16	W7HLA WAØZQB/KL	264- 12 Alaska .7 624- 23 8
Los / HX DGH DDO	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22	W7HLA WAØZQB/KL	264- 12 Alaska .7 624- 23 8 iichigan
ILG Los / HX DGH DDO DQX	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886- 67-29- 3	W7HLA WAØZQB/KL M K8VQP	264- 12 Alaska 7 624- 23 8 ichigan 32,627-275
Los / HX DGH DDO	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22	W7HLA WAØZQB/KL	264- 12- Alaska .7 624- 23- 8 lichigan 32,627-275- 27,360-228-
LG Los / HX DGH DDO DQX 6MBP JPH ZOL	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1	W7HLA WAØZQB/KL M K8VQP WA8JUN W8TBZ WB8EUN	264- 12 Alaska ,7 624- 23 8 (ichigan 32,627-275- 27,360-228 20,034-189 18,718-191
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL MHG/6	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886- 67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5	W7HLA WAØZQB/KL M K8VQP WA8JUN W8FDZ WB8EUN W8ROC	264-12 Alaska .7 624-23 8 iichigan 32,627-275- 27,360-228- 20,034-189- 18,718-191- 16,560-171-
LG Los / HX DGH DDO DQX 6MBP JPH ZOL MHG/6 YY (K6STI-	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886- 67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5	W7HLA WAØZQB/KL M K8VQP WA8JUN W8TBZ WB8EUN	264- 12: Alaska 7 624- 23: 8 8 8 (ichigan 32;627-275 27;360-228 20;034-189 18;718-191 16;560-171: 8960-112:
LOS / HX DGH DDO DQX 6MBP JPH ZOL ZOL MHG/6 YY (K6STI-	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5 +W6JU)	W7HLA WAØZQB/KL M K8VQP WA8JUN W8TBZ W88CCE W88CCE W88CCE W88CCE W88CCE W88CCE W88CCE	264- 12: Alaska .7 624- 23: 8 10: 10: 10: 10: 10: 10: 10: 10:
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL MHG/6 YY (K6STI	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886- 67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5 tw6JU) 14,160-146-48-20	W7HLA WAØZQB/KL M K8VQP WA&JUN WBB2 WB8EUN WB8EUN WB8CCE WB7ZZ	264- 12: Alaska 7 624- 23: 8 ichigan 32,627-275 27,360-228 20,034-189 18,718-191 16,560-171 8960-112 8712-121 2688- 56 (rs.)
ILG Los / DGH DDO DQX 6MBP JPH ZOL MHG/6 YY (K6STI- Or 6NRK AMO	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5 tw6JU) 14,160-146-48-20 ange 14,382-141-51 11,520-128-45-16	W7HLA WAØZQB/KL M KSVQP WA8JUN W8BEUN W8BEUN W8ROC W88CCE W8TZZ WA8GUF K8BYI (4 op	264- 12: Alaska .7 624- 23: 8 10: 10: 10: 10: 10: 10: 10: 10:
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL MHG/6 YY (K6STI- Or 6NRK AMO QGV	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 1360-15-12-1 1360-15-12-1 100-10-5 twofJU) 14,160-146-48-20 ange 14,382-141-51 11,520-128-45-16 8170-95-43-14	W7HLA WAØZQB/KL M K8VQP WA8JUN W8TBZ W88CCE W88CCE W88CCE W88CCE W88CCE W88CCE W88CCE	264- 12: Alaska .7 624- 23: 8 10: 10: 10: 10: 10: 10: 10: 10:
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL MHG/6 YY (K6STI- GYRK 6NRK AMO QGV Santa	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 100-10-5 tw6JU) 14,160-146-48-20 ange 14,382-141-51 11,520-128-45-16	W7HLA WAØZQB/KL M KSVQP WA8JUN W8BEUN W8BEUN W8ROC W88CCE W8TZZ WA8GUF K8BYI (4 op	264- 12: Alaska .7 624- 23: 8 8 20,034-189 18,718-191 16,560-171: 8960-112: 8712-121: 2688- 56 (rs.) 37,210-305 oprs.)
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL ZOL YY (K6STI- OT 6NRK AMO QGV Santa DOL/6	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13- 1360-15-12-1 100-10-5 +W6JU) 14,160-146-48-20 ange 14,382-141-51 11,520-128-45-16 8170-95-43-14 Barbara	W7HLA WAØZQB/KL M KSVQP WA&JUN WBBLUN WBBLUN WBBLUN WBBCCE WBSCCE WBSCCE WBSCCE WABGUF K8BYI (4 op WABCQR (7 W8DB	264- 12 Alaska 7 624- 23 8 8 20,034-189 18,718-191 16,560-171 8960-112 8712-121 2688- 56 (rs.) 37,210-305 oprs.) 5626- 97
ILG Los / HX DGH DDO DQX 6MBP JPH ZOL ZOL YY (K6STI- OT 6NRK AMO QGV Santa DOL/6	t Bay 9512-116-41-20 Angeles 28,520-230-62-26 23,600-200-59-16 23,246-191-59-22 3886-67-29-3 780-30-13-5 598-23-13-1 360-15-12-1 1360-15-12-1 1360-15-12-1 100-10-5 twofJU) 14,160-146-48-20 ange 14,382-141-51 11,520-128-45-16 8170-95-43-14	W7HLA WAØZQB/KL M K8VQP WA8JUN WBEUN WBEUN WBEUN WBECE WBTZZ WA8GUF K8BYI (4 op WA8CQR (7 W8DB K8HKB	264- 12 Alaska 7 624- 23 8 8 8 20,034-189 16,560-171 8712-121 2688- 56 (rs.) 37,210-305 oprs.) 5626- 97 Ohio 45,560-332 43,485-333
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5312- 83-32-6

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W9AZ/9 (4 oprs.)

W9YH (3 oprs.)

W9YB/9 (5 oprs.)

W9YT (K9LBQ, opr.)

W9AML/9 (4 oprs.)

Indiana

Wisconsin

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Colorado

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WOIUB	4680- 78- 30		
WØCHJ	1040- 26-20- 3		
Min	nnesota		
WØAIH	61,028-415-73-21		
WOOAW	41,752-304-68-21		
WØHW	25,630-233-55-13		
WØRHI	12,054-123-49-16		
W2TA/Ø	10,176-106-48- 5		
WAØOOU	7176- 92- 39		
WØIH	6480- 81-40- 8		
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	30,180-250-60-22		
М	issouri		
WAØRDJ	27,690-210-65		
WA9BZY/Ø			
	16,464-168-49-24		
WØBV	10,836-126-43-12		
KØDYM	6364- 86-37-7		
WAØKMJ	5576- 82-34- 8		
Nebraska			
WØMSC	18,592-166-56-16		
North Dakota			
WØZTL	18,960-158-60-16		
South Dakota			
KØUDZ	11,730-115-51-23		
KØLXD	11,074-113-49-8		
WAØCPX	7200-100-36-12		
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Switzerland

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Japan

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