

ARRL DXCC - 160 Meters

The ARRL DXCC is awarded to amateurs who submit confirmations for contacts with 100 or more entities on the ARRL DXCC List. As of 05 Jun 2023, there were 340 current entities on the list. The DXCC Honor Roll includes those who are within 9 entities of that figure for the Mixed, Phone, CW and RTTY awards. The following listing of the DXCC membership contains the call signs and exact credited totals by endorsement level. Awards are NOT activated automatically; participants must apply to have a particular award (band, mode etc) activated when the qualifying number of credits is obtained. "Inactive" members (whose most recent DXCC application was before 1994-01-01 and who are not a current ARRL member) are shown in gray.

See the [ARRL DXCC FAQ](#) for details.

344 W8LRL	327 R4GM	W3LPL W9ZR	309 DF3CB DJ9KG	UT5UGR	298 9A2AJ IK2DFZ
340 K1ZM	325 ON4UN*	316 W2VO	I4AVG W3GH*	303 DJ0MDR F5LGE JA4LKB K1UO K9QVB N4RJ	JA4DND LZ2JE OZ3PZ SM3EVR SM5CEU UX1UA
338 W4DR W4ZV	324 K2TQC K9UWA OH2BO	315 OH3SR S50U W1JR	308 IV3PRK K8GG KJ9I OH1MA SM6CVX W5IZ	302 DL4MCF GM0GAV GM3YTS YU1FW	297 DK5PR OM2XW SP3EPK W0CD*
337 EA8AK	323 SP5EWY W1NG	314 IK4GME IK4WMA K5RK NX4D OK3GU OZ1LO PE5T RW2A UA4CR	307 4X4DK DJ7MI IK4MGP K4SV OH5VT RZ3AM VE3EJ	301 DL9KR JA1BK N1RJ N3XX NN4T S54E	296 DJ2BW* F5NTV G0JHC G4PWA N4CC OE1WEU OE6IMD ON5NT W0FLS W1JZ
334 N4WW OH2BU VE1ZZ*	322 UX0UN W3UR	313 GM3POI OE3GCU OZ7YY	306 I4EWH K4CIA SM0AJU WT3Q	300 CT1EEB F6BKI G3KMA I2ZFD PA3FQA RC3FL SM3GSK VA3EF	295 K3UA UA6A
333 R7LV	321 K5NA* S50A	311 DJ6RX G3PQA N1DG RA7A	305 EA6SX JA7NI K4ZW RW3PZ*		294 JH2FXK RJ3AA SV8JE
332 UR0MC	320 K4PI SM4HCM W8UVZ WB9Z	310 OG2M SM5BFJ SP2FAX	304 N4IS N4JJ* UT3UA	299 K4TEA N1BUG W7UT	293 DF2UU
330 LZ2DF OH1XX UT7QF					
329 AA1K HA0DU UA4HBW	319 N0XA SM4CAN				
328 K3UL K5UR UA4CC	318 EY8MM K8MFO				
	317 I4EAT*				

KV4FZ*	W4PK	K8KS	YO3APJ	266	K1LT
LA5HE		K9CT		JA5AUC	K8PT
292	286	SM4DHF	273	NR1R	R9FM
OZ1BTE	I5NPH	SP6HEQ	F5NBU	R3LA	SP9JZU
R7FK*	IK1GPG	UA3AB	IK4CIE	W8TE	258
RA3DX	K3SX	W2YC	K1ZZ	W8XD	K4XP
S58T	N3SL	279	K2CL	265	KW9A
SV1AOZ	N8DX	N2TK	K5BG	AA1V	KX4R
SV1FJA	PA0WRS	NO3M	KG4W	IK6DLK	RN3CT
W3YX	SV8CS	SP3DV	RA3DA	SM5KNV	VE3QAA
W8TOP	W5ZN	UA6MF	SP6AEG		
	W8AV		UA3DPM	264	257
	WD5COV		UR5WA	AA6YQ	EI7BA
291	285	278	UX1AA	AA7A	K1GUN
JA4LXY	9A7V	DK0EE	W6UB	G4OBK	N3NT
JH4UYB		F6BEE		KD5M	SP1S
KD9SV	284	JR7VHZ	272		SV8BHN
R7NW	JR2KDN	K5DU	9A2EU	263	W9YSX
SP3E			DL1DUL	AA4V	
		277	KF2O	DL2OE	256
290	283	AA4MM	SP9DWT	K6ND	9A5CY
DF3GY	DJ2YA	CT1APE		K9OW	I1FQH
DL1AMQ	G3XTT	DJ9VA	271	W2SM	IK2YCW
G4BWP	K4WM	HB9BIN	EU7A	W3AP	JA5BZL
N0TB	NA0Y	IK5BAF	G4GED	YO5BRZ	K1QX
SM6CMU	R3OK	JA3FYC	IK8HJC		K5VRX
UA3AKO	SP3IBS	K5XI	MD0CCE	262	PA7MM
UA3LAR	UT7UW	SM6CNN	OZ1CTK	K4UEE	
				KR9U	255
289	282	276	270	UX4UA*	G3ZSS
IZ0AEG	DL1YD	DK5WL	OE5KE	W1GL	IK5HHA
JA2JPA	G4CCZ	DL7VEE	SM6CCO	W1YY	JA8ISU
JA3ONB	I0WDX	G3LZQ			K4QL
RX4HZ	K0KX	IK4DRY	269	261	K8FL
US4EX	N2LT	N8RR	HB9AMO	DL9YX	N2MF
	N4KG*	N9IW	RV3LO	G0DQS	W5OZI
288	SM6CTQ	OK1AWZ	SP6CIK	IZ1ANU	
PA3GCV	UY5ZZ		W1ZC	K2EK	254
RA3CQ		275		K5KC	N0AT
RY9C	281	9A1CCY	268	LA3MHA	W3DF
SL0ZG	DF2PY	F6AOJ	CT1EKY	N6SS	WA4FFW
SM3NRY	JA2PJC	K4IQJ	DL5DSM	NO8D	
SM5AQD	JH4IFF	ON7TK	G3WPH	RW0LT	253
UA4LY	K1CP	SP5CJQ	I2AOX		JH1GZE
W0JX	K4SO	UW2ZM	RA3XDX	260	K5ESW
WK3N	S59Z	W2OKM*	RK4FD	K4DY	N8TR
	W0BV		SM5DJZ*	K7ZV	RU3FM
287	W4TO	274	VE2TZT		S58Q
DL1RWN		G3TXF	W1MK	259	SP5DIR
N2QT	280	K2UO		DF4PL	SP9FKQ*
SP7VC	EA6NB	NJ6P	267	EA5BM	UA1OMS
UT7UJ	HB9BGV	OH3BU	LU8DPM	F6GCP	W0YG
VA3DX	JA5EXW	US5WE	RZ3DX		

W1TSP	246	K1ZG	WA7NS	W4GF	VA5DX
	5B4AGN	K9OT		W4VQ	W3LL
252	DJ2TI	LA2XPA	234	W9IXX	W7KW
EA1DR	K0IEA	ON4IQ	JA0CRI		
JF2MBF	N2NL		K1DG	229	224
S52F	N6TR	239	K4UTE	CT1FJK	IZ8FFA
W3UM	W2TQC	EA4KD	K9NR	DJ4AX	JA6BZI
	W5XZ	JR3IIR	KF0QR	JA8EAT	JA8FKO
251		K0KT	OZ4O	J11BEX	N6JV
DJ7RD	245	KH6AT	PY1BVY	RO7T	N8BM
DL9RT	DL4CF	LY3UM	SV1RK		SP5INQ
JH0BBE	F2JD	RN3QN	VE7IG*	228	US0SY
ON4AOI	JA1GV	SV1ELF		AB3CV	VK6VZ
VK4MA	N5DG		233	AC4G	W2RQ
W5UN	N9US	238	IK0MHR	AF9H	
W7LR	RY7G	DL8WN	IZ4BEZ	AI0O	223
	TF4M	JA7QVI	K0CS	JH1HGC	AB0X
250	WB3AVN	JR3GWZ	K9ZO	K1AR	HA7TM
HB9RG		K1HTV	KA7T	K5EK	I3BUI
KY7M	244	N4II	NI0G	NT0V*	K4HB
N5KD	DK6WL	UA3TT	SK3PY	OH2BEN	N6AR
NQ1K	JA1HGY	VO1HP	UA4HAU		RT6T
OZ8BZ			VA2WA	227	SV2JAO
PA4VHF	243	237	W7AO	DL7HU	VE6WZ
	DK2JX	AA1QD	YO7LCB	EA1N	
249	DK3DG	DL7MAE	YO9HP	ES1RA	222
AI9L	ON4ATW	F6BLP		IK0HBN	DF6PB
JA2VPO	R5DT	IK0XBX	232	K1FK	IV3JVJ
JG3QZN	W9XY	IV3ODE	K2AZ	K3NW	IW1ARB
K9NW		K1VW*	K4XL	N2WK	JA9CHI
SP5DRH	242	K9RX	NI6T	RU3QR	JR6EZE
	AG9S	OM4EX	UA3AP	WB6RSE	K3SV
248	KG7H	SV8GFW			K6EID
I1EIS	W9RPM	W4YO*	231	226	KD0Q
K3WW	WX4G		4X4NJ	E72A	N5AW
K5RX		236	CX6VM	JA1UQP	N8PR
OM3DX	241	G8VR	HA9RE	JF2KOZ	N9BX
PY2RO	JA3EMU	JA0DAI	IK0YUT	K9FD	NV9L
SM3VAC	K2FF	JF8QNF	K2UU	UT5JAJ	SM0CCM
T77C	K5ZK	K1JO	KA9CFD		UR5EDX
UT9FJ	N4XM	OK2ZI	N7NG	225	W9BF
UX0FF	N5TY	SP8AJK	ON4ACG	A45XR	
W9NGA	N7RT	UR5MID	S51DI	EA6VQ	221
	OK1DWJ		S57A	FK8CP	DJ5FI
247	RL9F	235		JH7PFD	IZ1LBG
9A4T	SP5GRM	IK0XEZ	230	K1MM	JH2TPI
IV3YYK	VE1YX	JA5MHD	AB4I	K5AB	K8FH
JQ3DUE	VE3NH	K3SWZ	JA0FSB	K9FD/KH6	N6VR
K6XT	W3KX	KC7V	JA1CMD	N4CH	W0VTT
NO2R		N6DX	JH4ADV	OE5NNN	W1ZK
R7IA	240	R7DX	N8JV	RA3QK	W6JRY
	K0JUH	RA0FF	R5AJ	RV1CC	WS6X
	K1FZ	VE3XN	SM3NXS	RW3XZ	ZS4TX

220 AG8B HB9LCW HL5IVL IK6FWJ JA1SYY JR4OZR KA1R N1LN NN4X OK1CF SP8NR VE3EXY	215 JA2NDQ N7JW W0GJ W2LK	RU3SD UR5FEO	K4NA K5AQ K5EJ KC6AWX* KG9N SM6BZV VE3BW WA7NB	202 DL1MGB DL2KQ EA1RT JA3CSZ JH3VNC K2NV K4JJW LY1G N7KA OK1DOT R9TO US0KW ZL3IX	G3UJE G4BUE UA0SR W1TO W8HB
219 DJ8NK IK3VUU JA2FJP K4MWB K6TA K8ZTT OE8RT SP4K SP7GAQ WA2UUK	214 HL3IUA JA2JW JA6LCJ JJ3PRT K1AM* OE2LCM OK1DX RN7G W4NL W6YI	210 I8SAT JJ2LPV K0MN* K3WA MM0EAX W7JW	205 HB9DDZ JA3AAW K1DT N4PQX N9AU PY2BW RA1QD W1ECT W8UN WB8ZRL	201 DL1EJA K3HP UY1HY W5TCX W7DO WI8A	197 G3SNN JH2UVL K3KO* LA4GHA LA5YJ OE4PWW OE5FIN ON4CD RZ6FA UA0SC UT5EL W2IRT
218 DJ4PI DK0PM IK1YDB JA2FBY JA8CDT K0EU K5UO N0AV ON4GG UT4MF VE3LYC W5PJR	213 DF2IS DL5WW EI3IO HA1RW JF6DSZ K3JGJ NA2M RU4SO W0LYI W0UO W1FJ W2WG W3YY YU3AA	209 AD5A DL5CF DL9MRF JH0INP ON6YH VE1DX W0AIH* W0ZR W6PBI* W7KNT WA5VGI WS9V	204 DJ5AV IK7NXM JA7MSQ KK4SI LX2A N4NX N7FU N9LB SV8CKM US6EX W0LS W9EWZ WD8PKF WF4U	200 DL9DRA EA6ET HB9CXZ JA1GTF JH2RMU JI2KXK K1GE K5MC K5RT LA7JO RA3WDK RW4NN RW7M UY0ZG W0DD W0MHK W3GG WA2HZO	196 AA4HP JA5AQC K1GG K3LR K8PO KP2A RA9CMO RZ4FO W0FS W2FCR
217 K5PC UA3AGW	212 DK2NG DL9GFB JA9PPC JF3KON K1ST KE9I KG6I N1ZZ N4MM SM5CZQ VO1NA	208 AA9A DL7BA JA2IVK JA2WYN JG1ULJ JH1IFS K2FU N5ORT RU3ZX SM5JE* W1TC W6PJ WB9CIF	203 I4KDJ IZ8VYU JA2XYO JF4VZT K4XO K8AC K9MMS KK2I PA0A PY2XB R6AF W2HUV W8GC	199 JA2DPC JE1PNX K6GXO N4DW N5ZM N8DJX	195 4Z4DX AA5AM G3ZEM JA1EOD JA4PXC JN7FAH K7SO K9RT KF8UN N1SV N4QS N5JR W9OP
216 K8SIX N5UL OE1ZL RZ0AF SP3CGK UT7UV W6XA YV1DIG	211 IK4DRR JA4DEN K4MQG K8ZH NX0I	207 F6DAY I4LCK K1LPS K3JT K8EUR UN5J			194 HB9DDO K4KDX K9JF KB9LIE KC9ARR
		206 AJ6T IK0IOL JA3PIS K2VV		198 DL1ROJ	

LA7GIA	K2TE	185	181	K7GM	WT8C
ND0N	K8NVR	AB6QM	CT1IUA	K9NU	173
SM2OAN	K9KU	EA6BF	DJ9ON	SM6DHU	5B4ALJ
W2LO	KF7PG	G3KWK	JA0EOK	W1RM	JA2BDR
W9OO	KM1D	K5ZD	VE3OSZ	W5LT	KA1J
WD8JJA	KV7K	K9US	YO2DFA	W7FI	KL0S
193	N5GH	N4TJ			N5FG
AG4W	SP2LNW	N5UR	180	176	W7MEM
DL5ZB	VE7VV	N8LJ	DF2GH	EU1AB	XE2X
DL6ZXG	189	OE2BZL	DM2DXA	I6FLD	
EA3WD	9A2F	OZ1AXG	DM3VL	JA0DET	172
HA5BSW	EA8PP	SV1DPI	IF9ZWA	JA2ZL	CT1EAV
JA9FPI	F6EXV	UA9CBO	K3PA	JA5IU	G0BLB
JA9NFO	FM5CD	W0EWM*	K6SSS	JA6BJV	G3NKC
JO7WXN	JA3RAR	W4UM	N4AH	JA8KSF	HK3W
N9EN	K4ODL	WA3C	ON5FP	K8MN	IT9ELD
PA0LOU	SP7HOV	184	W3YQ	RA3S	IZ5MOQ
RN1ON	UA7T	AB4IQ	179	W4BP	JA3FGJ
UA9FAR	W5DM	EA5RM	AA1ON	W4GD	K0DEQ
W0RI*	WN6W	IK2QPR	IW0SAF	W7BEM	K4XR
W9MU	188	JF1NZW	K2EP		K5GKC
192	9A2NA	JF1PUW	K8WK	175	KA9FOX
AD8P*	IK0FVC	K4HGX	LA9AJA	G0OIL	KJ0M
I5KKW	JA1ANR	K6SRZ	NE1B	JA0VSH	OK1DWC
K3FN	JA1KQX	KB0EO	OK1MG	JA1CHN	SP1MGM
K4FJ	JH1QAX	KB4ET	S57UN	JS3CTQ	W4FQT
K5XX	LA5IIA	S57AC	SM4DDE	K4CN	
K9EU	UA0CA	US8UA	SM7GIB	K4DLI	171
LA7HJA	W1NT	183	SV3FUP	N1RR	4Z5CX
N4DB	W6SR	CT1FMX	UT2UB	N5OK	DK3WW
W4FC	W8JV	CU2DX	VE3DZ	SM5FUG	DL6KR
W8LGJ	WA6YEE	IT9INO	W2YJ	VE3FF	G0EHO
191	187	K8VC	W8TN		JA2LCP
DK1FW	AJ1H	LA3WAA	178	174	JA6HUG
F4BKV	K0SR	LA7AFA	EA3CJ	CT3MD	JR1TNE
K8FC	KN5O	LB8DC	JA1XEC	JA0GJJ	K2FL*
K9LA	N2NS	NK1K	JA4MRL	JA2XW	K2KA
K9YY	OK1CZ	ON6SAS	JE2URF	JF7DZA	K3WC
RK2FWA	RM0F	W2FP	K2UR	JK1OPL	K9YC
W3UA	SM0NJO	W8NW	NE0U	JR6PGB	N4OGW
WA2VYA	W7AWA	WE9R	SM7DLK	K2PLF*	N7IR
190	186	182	SV1JG	K3AJ	N7RO
DK2LO	9A8A	DM5EE	W1YM	K4TR	N9RC
EA3JL	IZ8FWN	JA1SHE	W6NWS	K4WS	SV1LK
IZ8XQC	K0BJ	JA8DNV		K8RRT	WB7B
JA1DUH	K7LAY	K0JGH	177	KB8VAO	ZS1LS
JA1MCU	KB1EFS	K5KLA	9H1SP	OE1WHC	
JA2JNA		N5LZ	AE5E	RN7F	170
JA7JWF		UR3EO	HA5WA	RX3APM	DJ6TK
		UT5UT	JE1BMJ	UA3LNM	EA8JF
			K7BG	W2OR	I1JQJ
				W8UV	JA6JPS
				W8VVG	

JL1SAM	N7XR	RA3DNC	160	G3TQZ	AB9V
JM1GYQ	RA1AOB	W4NS	DL1DA	JA0UUA	EU1KY
K1NTR	RN9N		HB9DHK	JA1GHH	GM3PPE
K6FG	S51EC	163	IW2FND	JE2LPC	JA8NFV
N0RN	VE6WQ	DJ9HX	JA2EPW	JH7IAJ	JH1TWT
N3OC	W1YW	GU4YOX	JA9NLE	K1USA	JH2QMT
N4PY	W8HC	K0TT	JE2OVG	LY5A	K0KVR
SP3GTS	W8OI	K8TL	JF2XGF	N5MOA	K2LS
SV3KH	WA0MHJ	N3BNA	JR7MAZ	NE9Z	W1NA
W8KEN	WA4LOX	PA3C	K3MSB	RU4UR	W2XI
W9EVI	WX0V	RA3ZH	LA0FA	SM3PHM	W5DNT
WA3AFS		UR4CWQ	LB6KC	SV8ZS	
	166	VE3CFK	NY0V	W2TA	153
169	4Z1UF	W0DJC	RL3FA	W5GZ	DL3ZA
HA9PP	DJ4SO	W7AL	RU6L	W7TVF*	EA5BY
JA7MOL	IV3TDM	YL2TW	SP6EQZ	W9AJ	G3TJW
JG3IWL	JA1FNA		UA0FZ	YV2IF	HL2CFY
JR1IZM	JA9LJS	162	UX5UO		JF1IRW
K1BD	K3KY	4O3A	W1BR	156	K8VVF
K1LI	K4JLD	9A4W	W5XC	DL4MM	N4TV
K1NU	K4PB	CT1GFK		F6HDH	N5TW
K6ZZ	K4ZYU	F3AT		IZ4DPV	N8II
N4XX	RM3DA	I2ZGC	159	JA9APS	OH2BLD
N7US	W1RR	IK4PLW	AD5Q	JE2LUN	SM6CLU
UY5AA	W8ILC	JA1RTX	CT1FPQ	JO7HAM	SP5CCC
WB3JFS	WA8TXT	JA6GIJ	JH6QFJ	K8YSE	SV2AEL
		K1KI	K4RO	K9GA	UT5UY
168	165	N8MR	W6BJH	KS1J	WB8BPU
G3MXJ	AA9D	W0HT	W7SX	N4GN	WE1P
IK2EGL	DL7UCX	W0TT	WD5BJT	TF3SG	WJ4T*
JA1ADT	JA3ENN	W1LW	WX0B	UA3SAQ	YS1RR
JA1PPW	JA9TWN	W7YAQ		VA3LX	
JE7JDL	JE7RJS	WW3S	158	W1YIF	152
K5QY	JR7BDQ		9A2JK	W3IP	AJ9C
K8RYU	K0BBC	161	DJ4PT	W4TV	JT1CO
KR4F	K5JZ	DK2GZ	DL1FKA	WP4U	K7SP
N4QQ	K9MBQ	DL6RAI	EC3A		KS3F
N8BJQ	KK4CB	JA1DOF	JA4FKX	155	N9OY
PA7F	PE1L	JA6VQA	J11FXS	DL1RK	S55ZZ
PY5EW	SM4CTT	JF1WPB	J11NJC	HB9FMN	UA6IGI
SP5GH	W5BN	JF2UPM	JR1GJP	IK0FUX	UT5AB
W4SVO		JH2SON	K5TT	K4WA	VE6LB
W6VX	164	JH4CPC	KI5BLU	N4HB	W1SKU
WA5YNB	4Z5MU	K5GO	NR4M	NE0DX	W1VT
	HA7UW	K7NN	RU6M	NW7E	W2RS*
167	HB9BZA	K8ND	RW3RN	SM6VR	W6RLL
DK5AD	IK0PEA	LB2TB	SM4EMO	VK3HJ	W7AJ
IK4ADE	IK3SWB	N4XU	W0SZ	W2XL	WB3CQM
K4XD	JA7ZP	OH6RA	W1OX	W3GQ	
K6KO	K1NJ	W8WEJ	W4QN	ZS6EZ	
K8NK	N5WA	WC5N	W9RN		151
LA5LJA	N9FN	YU2TW		154	DK2OY
N0IJ	OH2IS	ZS5LB*	157	3V8SF	F3SG
			AA4H		G4GIR

JA6BEE	148	KR2Q	142	ON7DR	W1GD
K2FW	AC6DD	N1EN	I5HOR	VE6SV	W2YE
N5JB	EA7TV	N4GG	IK0AGU	W0SEI	W4YV
OK1ATP	F5CQ	RT0F	IZ4GWE	W4VIC	W7OM
R9OK	N2WB	SM3DTR	JE2DZC	W7IV	
RD3A	UA2FF		K3PP	W8LWU	137
RU3A	W4DKS	144	K4WZ	YL2MU	CU3EQ
S54A	W5FIX*	DL4SZB	K8UT	YO9FNP	GM3YOR
SP7AWG	W5FKX	E70T	LA9VFA		IZ2FOS
SV9AHZ	WS5W	EI6IZ	N2WM	139	JA3APU
W7RH		G4FTC	N5XZ	DJ4XA	JA9RRH
WA1Z	147	GM3ITN	N7QT	DL5CW	JE6TSP
WS7L	EA3GP	HB9BYQ	NA4D	DL5EBE	K2QMF
	IV3VBM	JA3GN	NQ7R	DL6MRS	K2RET
150	JA1XQC	K1KA	NY2NY	DL8OH	K5VWW
IT9DSZ	JR9OPJ	K3VAT	OK1DO	I0JBL	K8NS
IV3RAV	K2AX	N1IX	W2OO	IT9BLB	N2PK
JA2NQG	K3TN	N3KK	W5VQ	IZ8IEV	N8OC
JH1NYM	KM1H	N7BT	W6QUV	JA1TMG	RA3CO
JH1RFR	SP3FAR	NI0C	W7HPW	JA2ATE	RG7G
K7LV	UN7LZ	SM4OLL	W7ZI	K3ANS	UN1L
K8AJS	W2KKZ	SM5CLE	W8RLS	K6AM	UU1JA
KU4XO		W4GE	WA5POK	K8RF	W1ITU
N3QE	146	W9JJB		K8ROX	W5ADD
N9CO	HB9TKS	WA9PIE	141	KU0A	W5ODD
N9MB	JA1HQQ	WC5M	DL5MHQ	LA8WG	WB5JID
OE8SPW	JA4DHN	WD5T	EW1BA	OK1MP	WP4G
OZ3SK	JH1GNU	YO3CD	I5MXX	OK2QA	
RN3OG	K3RA		IT9GSF	RC9F	136
UA6YW	K5SM	143	JA1SVP	SV8ZC	E72U
W3JX	K7WP	DL1DUO	K2RW	W0SD	ER0FEO
W6DAO	NE3F	DL5KUA	N1IBM	W5LUA	EU4A
W6RW	OZ1HX	DL6EN	N2RJ	W9XQ*	IK8CNT
W7CT	RU0SN	HI3T	NJ3K	WA8WV	K0TV
	W1IZL	HS0ZEE	SV3FUO	WW2DX	KR6C
149	W1ZT	JE3ENP	W1AX*		MM0SAJ
DL7CX	WA2BCK	JH4ALY	W1OP	138	N2ZN
EI6FR		K0QC	W3BW	AA7G	OK1DW
IK4FNF	145	K5TR	WB8CQV	CU2AP	SM5OJH
JE3GRQ	AF4HX	K6NR	ZS1C	DK8MCT	UT3UZ
JL1ARF	DK1WB	K7CMZ		DK8YY	UW8SM
K4RG	EI9JF	K7CW	140	EI9FBB	W2CG
K4YYL	HB0CC	KJ9C	9A1CAL	EW2A	W2OIB
K8ME	IZ3ENH	LZ2ZG	DF2RG	F6DDR	WB7QXU
N3RC	JH1QDB	N5UW	F5LVL	HB9SLO	
NX8Y	JJ3HGJ	N6PAT	JA2VQF	IK8EPC	135
SM6CUK	JN1BMX	R8TX	JR3OEH	JA1PTJ	5B4MF
UW7UA	K1OA	SV1CNS	K5WK	JG0CQK	AA6AA
W0GG	K4OY	UN9L	K6KLY	K1RO	DJ9ZB
WB8B	K5KV	VE3CV*	LA6OP	KK1W	F5PAC
WD5K	K7HP	W2/CT1GIF	N4XP	N1CGP	F6FXU
YO3DDZ	K8BL	WB8ZRV	OH6NIO	N7WS	HB9IQB
	KF6HI	WD9DZV	OK2ZV	RW4CY	IV3DXW

JA7LMZ	OE1KM	R9MJ	SM3BCS*	W0CP	NW6S
JA8BNP	OE6VIE	R9SA	W7QHE	W0RT	OE1AZS
JA8JL	RV4LC	SV5DKL		W0YVA	OZ1IKY
K1ZE	UQ2PZ	W7JY	128	W3BG	RA0BA
K7FL	VE3WT	W8DCH	AA4SC	W3MF	S51NM
K9MK	W0NFL	WB0TEV	EI2JD	W5AJ	UU7JM
NZ9R	W2QO		IT9ZZO		VE3UTT
R7LP		130	JA2KSP	126	W5DAW
RN3RQ	132	DF9ZW	JA9AA	DJ8WD	W9CG
SM3LGO	AA4NC	E73M	JE1LFX	F8BPN	WE4S
SM5CZK	AD6W	G7VJR	JH1HHC	G4IUF	
SP2BMX	IT9RDG	HK0HEU	K0FF	IK8GYS	124
SP3XR	JA3DY*	JA2FBC	K3XA	JI4POR	AA7XT
W1DIG	JA6CBG	JR7WFC	K4JAF	JJ1DWT	JA9AGN
W2GD	K6YUI	K2MYR	K4SE	K2ZD	J11DHY
W4BUW	KE9ET	K5VIP	K6LPO	K4JKB	KA6BIM
W4MBD	N6HY	K7LFY	KG7CW	K4XU	KD4POJ
W4RFZ	ON4CAS	K8BCK	KM3V	KC2LSD	KI4WCQ
W5ZG	OZ2RH	K9GL	N3MK	KF8DX	PA0TCA
W6JTI	SM4BZH	KJ6P	N5KM	N8NA	UA0BA
W8HW	SM6BGG	NA4EA	OZ8X	OK3CQD	VE1DUN
	VE3CRG	NO9E	R9SG	PA5TT	W2RIJ
134	W1EQ	OZ2ABI	S53X	PC3T	W3FM
DF7EE	W4AXL	PY5HOT	SM3GQP	SP6A	W6CYX
IK4DCS	W4RBO	R3VA	SV3DCX	SP6M	YO2RR
JA3OOK	W4WM	R5QA	VQ9LA	VE3CX	
JE1FQV	W5SL	R9AB	W2WC	VE7BV	123
K1TO	W7AH	RA5BM	W4IS	W8REW	AC4TO
K3OX	W7CD	RU1AO	W6RKC	WD4LBR	DL7JRD
KA8SYV	W8GNM	SM5CBM	W8MET	XE1KK	G5LP
KD0PO	W9FR	TA1CM	ZS6UT	YU1EXY	HB0WR
N9RS	XE2S	UN7JX			IK3XJP
OE1TKW		VE3DO	127	125	IK5DNF
RG6G	131	W2MPK	JA1DDH	9A1AD	JA0CRG
UA0ACG	AB9M	W6DR	JA1WLO	EA1AF	JA3MHA
W4JKC	DK7YY	W9ZT	JA2AHH	GW3TMP	JA5XAE
WO2T	DS1JFY	WB3D	JA8RJE	HK1MW	JA6WJL
YU1AM	G3UHU		JR1XIS	HK4SAN	JF2WXS
	HS1NGR	129	JS2LHI	JA4IYL	JR1EBE
133	IV3KFB	CT3HF	K0RW	JA6VU	K2PK
9K2NO	JA2TBS	EA1YO	K3TRM	JA7KY	K3XO
EU1U	JA7LGE	HB9HFN	K9ZM	JE1TSD	K4ZIN
IZ8DFO	JJ1TEA	JA1NWD	KM4H	JE6UWU	K5GH
JA4OK	JM1FHL	JA2KVD	KM4NS	JL1RUC	K9CS
JA7GLB	K7XB	JA8JO	N1AC	K1HAP	KV4T
JF3LOP	KH2L	JH0BQX	N1GC	K5KG	N2ED
K1ZN	N4QWZ	K3NK	N6PSE	K8DV	N6MZ
K2CDJ	N5PHT	K4TT	OE8HIK	KQ4AV	N9JV
K8GI	N6RK	K6XM	S55DX	LZ1XL	N9LQ
KS4YT	NA5DX	N0YY	SK7AX	N2KA	NA2P
KU2A	NN4R	N3KS	SM0BYD	N3EN	S50B
KX4TT	ON4ON	N3RR	SP7ASZ	N4JT	UA3DK
N9MR	R0SR	PY5EG	V51B	ND5S	UT3QU

W1AO	WA1PMA	K7EG	BH4IGO	JE2JMV	UN6T
W2JU	WB0O	K8KWT	DL1DWT	K1DC	W0QQ
W8MK	WB8K	N1JP	DL2VWR	K1RI	W3RJW
W8NJR	XE1VIC	N8PW	G3LAS*	KT1V	W9XX
W9ILY		N9UA	IK2SGB	N0KV	YL2CZ
WB2REM	120	NN2L	IK3VBB	PA0JSE	
XE1H	9A5F	NT2A	IT9DAA	PA3EWP	114
	AL7TC	NY7T	JA1HQT	RV3ID	AB1OC
122	FG5FR	OH5NG	JA1XCZ	UA4PCM	AC9EM
G3NDC	HB9BLQ	OK1DT	JA4FM	VA7CRZ	AJ4A
G4WFQ	HB9DHG	R6FFB	JA7GYP	W1ENE	BA4DW
IZ0RVI	IZ0LKV	SV1ACK	JA7IC	W1WEF	BA7IO
IZ7EVZ	IZ5NFD	SV1IW	JH4HMG	W7GG	CT3FN
JA1MRM	JA1SJV	UN7JID	JM3GXU	W7OEV	CU3AK
JH4JNG	JH4GJR	W2YR	K2BB	W8LRO	DL6NB
J11DCW	K1ESE	W4HZ	K5JC	WQ5L	F6CWA
K1CA	K2BA	W5QP*	K6PJ		G3SDL
K1YT	K2HK	XE1RCS	K6SIK	115	HK3PJ
K2MP	K3QIA		K8OOK	AB2E	HP3TA
K7UT	K7TM	118	K8QM	AJ4F	I5OYY
K7ZA	KA8ZPE	5T5PA	N2BJ	C6AGU	JH6WMJ
KR0P	N4BAF	AE3T	N3ND	CU2CE	K1RV
LA7WCA	N4TB	DL5OCE	N4IR	DL9GOA	K2DC
LA8PT	N4UFP	DL9FCY	N4TL	EI2GLB	K3MD
N4DWK	N6HC	HA1RB	N6MB	G4XEE	K3OSX
NA9RB	OE3EVA	JA4FHE	N8AA	G8BCG	K5RJ
NN7X	PZ5RA	JH4ADK	N8XI	G8DX	KB8U
OZ3Y	SP7ITB	J18DGO	NY4G	HA5UK	KZ4V
RD4A	UR5IKN	JN1RQV	SM7BIC	IU0HDC	N2JJ
UU4JMG	W2TB	JR6FC	SV1AHX	IZ7JVR	N3MN
VE6AX	W3OA	K3WGR	UA6J	JH1RFM	N3NR
	W4PRO	K4CNW	UB3A	JH3CUL	NU8Z
121	W6RFL	K8LN	UR9IDX	K0GD	OH1ZK
AA6RR	W7RN	KD6UO	US0YA	K0SD	SP6JIU
DF1DB	WY1G	LZ2HM	US1CT	K4CMS	UA3FT
DK1EI	ZL4AS	N0OK	W0IZ	K4GHS	VE3YF
DK6CQ	ZS1A	N2MM	W4DAO	K4GK	W0VX
F4GTB		N3UA	W4NF	K5XM	W4TUN
K1UU	119	NA5C	W4ZRZ	K6FW	WA1FCN
K4ZO	AA3AZ	PY2PA	W6SL	K8YTO	WA9YYY
K6EME	CT3KN	RN3TT	W8ZR	K9SG	XE3ARV
KD8RQE	DK3GG	SV9COL	WA2USA	KO8SCA	
KG9Z	DK3UA	TA2RC	WA3I	N0IRM	113
LB5WB	EW4M	VK4CAG		N4OA	9A1A
LB7ZG	HB9AAQ	W1KSZ	116	N8KOL	BA4RF
NA2U	HB9BCI	W4NJ	DL7URH	N9AW	DJ5DT
UQ1GWW	I2TZK	W8LMG	EA5BRE	OE3SGU	DJ9RR
UT4EO	I4MKN	WT4Q	HA7PF	PA3AXU	DL8CM
UU2JQ	IU0LFQ	YO4AUL	HB9AZZ	RZ6MJ	DL8DYL
VA3AYA	JA3AZD		IK0EIE	TZ4AM	EA5KA
W2GG	JA4XGC	117	IT9TQH	UA1ANA	G4AFJ
W6XI	JH6CDI	9Y4VU	IV3HYD	UA1CGS	IK2OHG
W9YE	K5UZ	AE0P	JA1WTI	UA6XT	IT9AAI

JA4ITW	JR7TEQ	K7ORK	K6VKO	W0VHF	W4ZYT
JA5WIZ	K0CA	K9AJ	KB4MRX	W5WP	W5VY
JH1ORA	K0JPL	KM1R	LZ1PM	WA7BNG	W7ACD
JH3GCN	K0TPP	KZ0X	N2CG	WB5TUF	W9NIO*
JR6LLN	K1KO	LA0CX	N3HBX	WN0L	WA2ALY
K8SL	K4UAS	N4WJ	N3IQ	XE1FAS	WA8MOA
K9DR	K7PI	N7BD	N3JB	YV3AGT	WC1M
K9GWH	K8CC	NA1DX	N4IQ		WD9EQU
KA4RRU	KI4DLS	SP8HKT	N4KE	108	
KH6DX	KM1C	UR6QA	NC6K	AI2Q	107
KI0G	LA8HGA	UT1UY	OZ1LCG	AL7R	4Z5LA
KT1J	N4ZY*	VE6KC	RD9M	DF1KG	DK3FB
KV1J	N6MA	VE7CT	SM5BHW	DG7RO	DL2CHN
KV4AA	N6PE	VE7UF	SQ5EBM	EA1JO	DL5XU
N1QY	NA3F	VE7XF	US7MM	ER1LW	EA5AT
N4DJ	OH1JP	W0RX	W0UY	G3VAO	EA7QW
N7KO	RU4SU	W2SKI	W4DC	HB9BAT	G4AKY
NI5F	SM3DMP	W3FOX	W4NE	HB9FAN	I5IHE
NK5B	UA1ACG	W4HOG	W5ZPA	HL3GOB	IT9XTP
R7NA	UA1CEI	W4NU	YU7AU	IK0PRG	JA5EY
RA4UN	UA6AUA	W4OX	ZL3NW	IZ0BTV	JA8JTH
RZ3AUL	UT6UD	W5AQ		J68HZ	JF2WGN
SM5ARL	W1HEO	W7VS	109	JA0AOO	K2MK
SP3EPG	W2CVW	W8MIL	EA3GHZ	JA0GCI	K3SW
SV1FKZ	W3MR	W9RB	EU4T	JA2MOG	K3YBN
SV1JFV	W3UL	WA2MUA	F8EZE	JL1UXH	K5CD
SV2AVP	W4VHF	WB9EEE	G3SVD	JR2LJO	K5FZ
UN7TW	W5VX	WP3R	JA2CXF	JR3UIC	K5KPE
UT8MM	W6TC	WT9U	JE2EHP	JR7FRW	KD2T
VE3KI	W8GEX	YL3DQ	JO7KMB	K1XM	KE2R
W2GW	W8HMK	YO6HOY	K1BZ	K2KQ	N2RR
W5JMW	W9SE		K2ONP	K4WY	N3DAP
W6BK	WA8OLN	110	K3PH	K6UT	N4RF
W8FAX	XE1RBV	AG1A	K4RDU	K8OM	N6EE
W9VNE	ZP6CW	CU3AN	K5KA	KN4JX	N8AGU
WA4DOU		DL1VDL	K6MW	LU2DKT	NA5Q
WB2HJV	111	DM2RM	KB2FCV	N1BZ	OE1CP
WS4C	AA4U	EA5BYP	KC2STA	N5BO	OK2BUZ
ZL1BYZ	AF4OX	EI8IU	KE1F	N6RFM	OK3CQR
	DK2WH	F5BAR	KL7RA	NG0G	R0FA
112	DK6ED	G3LNS	N8NN	NY4I	RN4AA
A92IO	DL5CL	G8AJM	N9HF	PA0ZH	RV6ARZ
AA4DD	EV1R	HC1BI	ND4V	R5FY	SP3BQD
DJ1RL	G3PLP	I2BBJ	NN4RR	R7LA	SP6AXW
EW1DO	G4DBN	IK5RUN	NU4I	RX6DX	US5CB
G3XGC	IK2CHZ	JA9KRO	NX7U	S57J	VE3OI
HB9CRV	IK7YZG	JH1VHU	PY5CC	SM6AOU	W3KB
HB9G	JA1AUD	JH7RXU	RW4UU	UX7UN	W6TDX
IZ4DIW	JA1FGB	JR2UBS	RW9QA	UZ6LWZ	W8VK
JA1SXR	JA1NCZ	K1EO	RX3AGD	VU2CPL	W9CPV
JA2HYD	JA2KNW	K3JRR	TG9NX	W2UB	WA2BOT
JA7BXS	JA5FDJ	K4WW	UB5ZAL	W3NRJ	WB4TDH
JG1DUZ	JE8TGI	K5WAF	UT7KF	W3XY	WS1L

YL1XZ	WA4MYO	RA6AF	KI0KB	EU6MM	W0UVC
	WA6TLA	RD4WM	KW0A	EW3LB	W1CTN
106	WA8MCD	UA3O	N2SQW	G3BDQ	W4AVY
AA4FL	WW1WW	UA6LCN	N3ER	G4AAW	W4MZ
AE2U	WX3P	UR1RWX	N3TR	G4PUQ	W4TMR*
DJ6OZ	XE2YWH	UR2RGN	N4MEC	G4VGO	W5THT
DL1QQ	YL2GN	VE1PZ	N4TTE	IK2ANI	W5VU
DL2NOM	YU3EF	VY2ZM	N8MZ	JA2GQO	W6SZN
DL3JSW		W1LY	NJ9C	JA2OLJ	WC6DX
DL6CNG	105	W4OWY	NN3Q	JA8EJO	YO7APA
DO4DXA	DF2PI	W5KI	NU4Y	JH1DGQ	
EA3CCN	DF8AA	W6FF	RA1QX	JK1BSM	102
G4RGK	DJ3XD	W8FIB	RU3UR	JM2RUV	A6/RV6LNA
HA8DZ	DJ6KH	WB2UFF	RZ6DX	K2CJ	CT4BD
IU8FRE	DL4ZAB	WQ5W	RZ6LB	K2UVV	DK3QM
JA1VLK	DL6XK	YU1NR	SM5CCE	K3FM	DK5RL
JA3NHL	DO1CTL		SM7CQY	K4LQ	DL3DXX
JE6IGP	ES1GO	104	SO5AS	K5AV	DL3NCR
JG3HBO	FG8OJ	9M2AX	UA9FGJ	K5JUC	DL4CW
JG5RVQ	G3YUV	AD1C	US5CAO	K7BTW	DL4KUG
JH2KKW	HA8FW	AH0U	UT4EK	K8CCV	DL5RDI
JJ0NCC	HB9RYZ	CP8HD	UT7EC	K9MUG	EI4DQ
JR0EQQ	HI8RD	CX3CE	UX4UM	K9XJ	ES5RW
K0DEW	IW3GJF	DJ8ES	UY0MM	KE1IU	F6BWO
K1PX	JA1BWA	DK3BK	VE3VHB	KJ4R	FM5WD
K3NF	JA1TAA	DL4FAP	W0YBS	KJ7WY	HB9AHL
K4DSE	JA2MNB	DL7UPN	W1QA	KM8AM	I0OSI
K5AM	JA6VA	E73D	W2NO	LX1DA	I8LWL
K5ZQ	JA7BME	EA8ZS	W3DRY	N0RU	IK0DWN
K8JJC	JA8RRF	F6AJA	W3TMZ	N1HOQ	IT9SFT
KQ3F	JE2UFF	F8GB	W4UCK	N9BBQ	IW0HEX
N0JZ	JF1RYU	G3BRD	W5CWQ	N9SF	IZ4MJP
N2CW	JG3LGD	HB9CIP	W5GJ	N9TF	JA0HXV
N4LR	K2XF	HB9CQK	W5ZO	OH3GD	JA4BXL
N7NR	K7OX	HK3O	W6PH	OK1DQT	JH9DRL
N8AID	K7PO	JA1SDV	W7DR	OK2BQU	JK1MZT
NI5M	K9RO	JA2FGL	W8KA	OK3BRK	K0EOO
OE5CSP	KI5T	JF1EGO	WA0I	OZ7JZ	K0YN
OK1AYU	KT2E	JF6WTY	WA9ETW	R9GM	K1PTF
OK2BVG	LZ1JZ	JO1WXO	WL7E	RA0FA	K2LP
S57AL	N2WLG	K0WK	YC0LOW	RA4HT	K2TK
UR3CRO	N3XM	K1BG	YO5ODE	RK3QY	K3FRK
UT7UU	N4JI	K1EP		RU3OW	K3KG
UU5WW	N4NW	K2BLA	103	SM3CBR	K4AQQ
V73AZ	N4SC	K4KEW	AA5JF	SM6EHY	K4LM*
VQ9SS	N4VN	K4MF	AG1I	SM7BHH	K5ZO
W1CWU	N6NU	K4VIG	AI3Q	UA3PFN	K6MI
W2EQ	NS3L	K5HK	DJ1MM	US2WU	K7BHM
W2LE	ON7PQ	K6UM	DJ7PI	VA2ZO	K7UA
W4IR	OZ4AAL	K7TJR	DL2HX	VA3IC	K8BHZ
W5JAY	PF7M	K9EA	DL8YRM	VE3EDY	K8OQL*
W8IW	PJ2/K8ND	KA2BZS	DM5TI	VE3MFA	KG8CW
W8OP	R6YY	KH6KG/W5	EA7SG	VE3VV	KN4KL

KW4BY	DL1KS	OK4MM	DL1HRN	KQ5M	VE7JKZ
KX2A	DL3ANK	ON4LG	DL1TPY	LA8W	VP2VA
KY6R	DL5JS	OZ5HP	DL9GTB	LU5OM	VR2PX
LA3ANA	DL6JZ	RA3AH	DU7ET	LU5YF	W0GYH
N5RZ	DM3ML	RA4P	EA2AAZ	LZ3YY	W0MU
N9ISN	EA1WX	RA4SD	EA3ALD	MM0SJH	W1AN
NA5Z	EU1TT	RB7GG	EA8AXT	N0AH	W1AW
NZ3M	G3ZFC	RK9F	EC5A	N1KI	W1MRH
OH2EA	G4DJJ	RY6M	EI9E	N1MD	W1YRC
OK1DTN	G4FJK	SM2DMU	ES5NC	N2XQM	W2CCC
OK1JDX	GM3WTA	SM7NDX	F6ECI	N3AF	W3BBO
OK3CSQ	HB9NL	SP5MXZ	FM5GU	N4CRI	W4HHN
ON5UE	IV3GOW	SP7JLH	G0VXE	N7TK	W4OV
PA7TWO	JA1VVX	SP9DH*	G3OIL	N8IL	W7DT
PV8ABC	JA6TMU	SV1PL	G4CGG	N9ADG	W8CNL
PY2DO	JA7SFD	UA0FDX	GM3ZSP	NB3R	W8FN
R2AB	JF1RPZ	UG6GAW	I2VGW	NG7A	W8GDQ
R3IS	JH3HGH	UR7CQ	IK0HFO	NJ3I	W9ZCL
RU3UN	JH3PRR	UT1CC	IK4MSV	OE5JDL	WB4SON
SM6WET	JI3KDH	UT4IS	IS0/YO3RA	OH2OT	WB8BZK
SP5JXK	K0LW	UT7HA	IW0BYL	OK1DXD	WK4Y*
T77V	K0MD	VE2OJ	JA1BRK	OK2PAZ	WU2M
UA1AIR	K1YR	VE3XB	JA1CPU	ON7EH	YB1TJ
UA1CKC	K2BX	VK2GR	JA4FSH	ON7GB	YL2SM
UA6HOF	K3SEW	W0QC	JA5DQH	ON9CC	YO9FLD
UA9MR	K4KAY	W1FC	JA8OW	OZ1ZD	ZP9MCE
UA9UCO	K6AAW	W2SF	JA9CGW	PA0INA	
UW7CN	K6DJ	W3HKK	K0FLY	PA7RA	
VE2FYR	K6XJ	W3WH	K0XM	R3PJN	
VR2MY	K7AR	W4BUE	K1DJ	R9JX	
W1PV	K7IA	W4PM	K1NA	RA3SD	
W2LW	K8BN	W4WT	K1NZ	RA4LW	
W2TX	K9PG	W7AV	K2CBI	RA6XB	
W3EKT	KE4S	W7CB	K2CYE	RL3BZ	
W4ALF	KF7NN	W7QC	K3TZV	RN1A	
W4JVN	KN6J	W8GB	K4FT	RT5A	
W5TO	KQ1F	W9MAF	K4KSY	RU3GF	
W7IUV	LA2GV	WB3HLH	K4UQC	S53MJ	
WA0IDK	LZ1XZ	WC4H	K4YJ	S59SV	
WD8DSB	LZ2XF	WK9U	K7VIC	SM5AHK*	
WS4Y	N0STL	WR2G	K8BZ	SV1VJ	
YO2IS	N2AJ	WV4TN	K8CR	SV1VS	
	N5AQ	YO6BHN	K8CS	UA3AKI	
101	N6WM	YV4DYJ	K8LE	UA4PAY	
AA2VG	N8AG		K9JU	UA6CEY	
AA4NU	NX2X	100	K9NZ	UN6P	
AB4GE	NZ9Z	9M6YBG	KB0EL	UR4CW	
AC5O	OA4TT	A41ZZ	KC0V	UR4LRG	
AC9S	OE3WQB	AA4AK	KC4D	UR8IDX	
CT1JGA	OH3TY	AB4VV	KC5LT	US8UW	
D44BC	OK1PGF	AC4VM	KD8BZY	UW7LL	
DH2FW	OK2BOB	AI2S	KJ6NZ	VE1RGB	
DK9WI	OK3EY	DJ6OI	KP4N	VE3OAT	