

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	325 ON4UN*	315 OH3SR S50U W1JR	OH1MA SM6CVX W5IZ	GM3YTS YU1FW
340 K1ZM	324 K2TQC K9UWA OH2BO	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
338 W4DR W4ZV	323 SP5EWY W1NG	313 GM3POI OE3GCU OZ7YY	306 I4EWH K4CIA SM0AJU WT3Q	300 CT1EEB F6BKI G3KMA I2ZFD PA3FQA RC3FL SM3GSK VA3EF
337 EA8AK	322 UX0UN W3UR	311 DJ6RX G3PQA N1DG RA7A	305 EA6SX JA7NI K4ZW RW3PZ*	299 K4TEA N1BUG W7UT
334 N4WW OH2BU VE1ZZ*	321 K5NA* S50A	310 OG2M SM5BFJ SP2FAX	304 N4IS N4JJ* UT3UA UT5UGR	298 9A2AJ IK2DFZ JA4DND LZ2JE OZ3PZ SM3EVR SM5CEU UX1UA
333 R7LV	320 K4PI SM4HCM W8UVZ WB9Z	309 DF3CB DJ9KG I4AVG W3GH*	303 DJ0MDR F5LGE JA4LKB K1UO K9QVB N4RJ	297 DK5PR OM2XW SP3EPK W0CD*
332 UR0MC	319 N0XA SM4CAN	308 IV3PRK K8GG KJ9I	302 DL4MCF GM0GAV	
330 LZ2DF OH1XX UT7QF	318 EY8MM K8MFO			
329 AA1K HA0DU UA4HBW	317 I4EAT* W3LPL W9ZR			
328 K3UL K5UR UA4CC	316 W2VO			
327 R4GM				

296 DJ2BW* F5NTV G0JHC G4PWA N4CC OE1WEU OE6IMD ON5NT W0FLS W1JZ	US4EX	281 DF2PY JA2PJC JH4IFF K1CP K4SO S59Z W0BV W4TO	SP5CJQ UW2ZM W2OKM*	VE2TZT W1MK
295 K3UA UA6A	288 PA3GCV RA3CQ RY9C SL0ZG SM3NRY SM5AQD UA4LY W0JX WK3N	280 EA6NB HB9BGV JA5EXW K8KS K9CT SM4DHF SP6HEQ UA3AB W2YC	274 G3TXF K2UO NJ6P OH3BU US5WE YO3APJ	267 LU8DPM RZ3DX
294 JH2FXK RJ3AA SV8JE	287 DL1RWN N2QT SP7VC UT7UJ VA3DX W4PK	279 N2TK NO3M SP3DV UA6MF	273 F5NBU IK4CIE K1ZZ K2CL K5BG KG4W RA3DA SP6AEG UA3DPM UR5WA UX1AA W6UB	266 JA5AUC NR1R R3LA W8TE W8XD
293 DF2UU KV4FZ* LA5HE	286 I5NPH IK1GPG K3SX N3SL N8DX PA0WRS SV8CS W5ZN W8AV WD5COV	278 DK0EE F6BEE JR7VHZ K5DU	272 9A2EU DL1DUL KF2O SP9DWT	265 AA1V IK6DLK SM5KNV
292 OZ1BTE R7FK* RA3DX S58T SV1AOZ SV1FJA W3YX W8TOP	285 9A7V	277 AA4MM CT1APE DJ9VA HB9BIN IK5BAF JA3FYC K5XI SM6CNN	271 EU7A G4GED IK8HJC MD0CCE OZ1CTK	264 AA6YQ AA7A G4OBK KD5M
291 JA4LXY JH4UYB KD9SV R7NW SP3E	284 JR2KDN	276 DK5WL DL7VEE G3LZQ IK4DRY N8RR N9IW OK1AWZ	270 OE5KE SM6CCO	263 AA4V DL2OE K6ND K9OW W2SM W3AP YO5BRZ
290 DF3GY DL1AMQ G4BWP N0TB SM6CMU UA3AKO UA3LAR	283 DJ2YA G3XTT K4WM NA0Y R3OK SP3IBS UT7UW	275 9A1CCY F6AOJ K4IQJ ON7TK	269 HB9AMO RV3LO SP6CIK W1ZC	262 K4UEE KR9U UX4UA* W1GL W1YY
289 IZ0AEG JA2JPA JA3ONB RX4HZ	282 DL1YD G4CCZ I0WDX K0KX N2LT N4KG* SM6CTQ UY5ZZ		268 CT1EKY DL5DSM G3WPH I2AOX RA3XDX RK4FD SM5DJZ*	261 DL9YX G0DQS IZ1ANU K2EK K5KC LA3MHA N6SS NO8D RW0LT

259 DF4PL EA5BM F6GCP K1LT K8PT R9FM SP9JZU	W1TSP	N6TR W2TQC W5XZ	KH6AT LY3UM RN3QN SV1ELF	233 IK0MHR IZ4BEZ K0CS K9ZO KA7T NI0G SK3PY UA4HAU VA2WA W7AO YO7LCB YO9HP
258 K4XP KW9A KX4R RN3CT VE3QAA	252 EA1DR JF2MBF S52F W3UM	245 DL4CF F2JD JA1GV N5DG N9US RY7G TF4M WB3AVN	238 DL8WN JA7QVI JR3GWZ K1HTV N4II UA3TT VO1HP	
257 EI7BA K1GUN N3NT SP1S SV8BHN W9YSX	251 DJ7RD DL9RT JH0BBE ON4AOI VK4MA W5UN W7LR	244 DK6WL JA1HGY	237 AA1QD DL7MAE F6BLP IK0XBX IV3ODE K1VW* K9RX OM4EX SV8GFW W4YO*	232 K2AZ K4XL NI6T UA3AP
256 9A5CY I1FQH IK2YCW JA5BZL K1QX K5VRX PA7MM	250 HB9RG KY7M N5KD NQ1K OZ8BZ PA4VHF	243 DK2JX DK3DG ON4ATW R5DT W9XY		231 4X4NJ CX6VM HA9RE IK0YUT K2UU KA9CFD N7NG ON4ACG S51DI S57A
255 G3ZSS IK5HHA JA8ISU K4QL K8FL N2MF W5OZI	249 AI9L JA2VPO JG3QZN K9NW SP5DRH	242 AG9S KG7H W9RPM WX4G	236 G8VR JA0DAI JF8QNF K1JO OK2ZI SP8AJK UR5MID	
254 N0AT W3DF WA4FFW	248 I1EIS K3WW K5RX OM3DX PY2RO SM3VAC T77C UT9FJ UX0FF W9NGA	241 JA3EMU K2FF K5ZK N4XM N5TY N7RT OK1DWJ RL9F SP5GRM VE1YX VE3NH W3KX	235 IK0XEZ JA5MHD K3SWZ KC7V N6DX R7DX RA0FF VE3XN WA7NS	230 AB4I JA0FSB JA1CMD JH4ADV N8JV R5AJ SM3NXS W4GF W4VQ W9IXX
253 JH1GZE K5ESW N8TR RU3FM S58Q SP5DIR SP9FKQ* UA1OMS W0YG	247 9A4T IV3YYK JQ3DUE K6XT NO2R R7IA	240 K0JUH K1FZ K1ZG K9OT LA2XPA ON4IQ	234 JA0CRI K1DG K4UTE K9NR KF0QR OZ4O PY1BVY SV1RK VE7IG*	229 CT1FJK DJ4AX JA8EAT JI1BEX RO7T
	246 5B4AGN DJ2TI K0IEA N2NL	239 EA4KD JR3IIR K0KT		228 AB3CV AC4G AF9H AI0O JH1HGC

K1AR	RT6T	WA2UUK	W0LYI	JH1IFS
K5EK	SV2JAO		W0UO	K2FU
NT0V*	VE6WZ	218	W1FJ	N5ORT
OH2BEN		DJ4PI	W2WG	RU3ZX
227	222	DK0PM	W3YY	SM5JE*
DL7HU	DF6PB	IK1YDB	YU3AA	W1TC
EA1N	IV3JVJ	JA2FBY		W6PJ
ES1RA	IW1ARB	JA8CDT	212	WB9CIF
IK0HBN	JA9CHI	K0EU	DK2NG	
K1FK	JR6EZE	K5UO	DL9GFB	207
K3NW	K3SV	N0AV	JA9PPC	F6DAY
N2WK	K6EID	ON4GG	JF3KON	I4LCK
RU3QR	KD0Q	UT4MF	K1ST	K1LPS
WB6RSE	N5AW	VE3LYC	KE9I	K3JT
	N8PR	W5PJR	KG6I	K8EUR
	N9BX		N1ZZ	UN5J
226	NV9L	217	N4MM	
E72A	SM0CCM	K5PC	SM5CZQ	206
JA1UQP	UR5EDX	UA3AGW	VO1NA	AJ6T
JF2KOZ	W9BF			IK0IOL
K9FD		216	211	JA3PIS
UT5JAJ	221	K8SIX	IK4DRR	K2VV
	DJ5FI	N5UL	JA4DEN	K4NA
225	IZ1LBG	OE1ZL	K4MQG	K5AQ
A45XR	JH2TPI	RZ0AF	K8ZH	K5EJ
EA6VQ	K8FH	SP3CGK	NX0I	KC6AWX*
FK8CP	N6VR	UT7UV	RU3SD	KG9N
JH7PFD	W0VTT	W6XA	UR5FEO	SM6BZV
K1MM	W1ZK	YV1DIG		VE3BW
K5AB	W6JRY		210	WA7NB
K9FD/KH6	WS6X	215	I8SAT	
N4CH	ZS4TX	JA2NDQ	JJ2LPV	205
OE5NNN		N7JW	K0MN*	HB9DDZ
RA3QK	220	W0GJ	K3WA	JA3AAW
RV1CC	AG8B	W2LK	MM0EAX	K1DT
RW3XZ	HB9LCW		W7JW	N4PQX
VA5DX	HL5IVL	214		N9AU
W3LL	IK6FWJ	HL3IUA	209	PY2BW
W7KW	JA1SYY	JA2JW	AD5A	RA1QD
	JR4OZR	JA6LCJ	DL5CF	W1ECT
224	KA1R	JJ3PRT	DL9MRF	W8UN
IZ8FFA	N1LN	K1AM*	JH0INP	WB8ZRL
JA6BZI	NN4X	OE2LCM	ON6YH	
JA8FKO	OK1CF	OK1DX	VE1DX	204
N6JV	SP8NR	RN7G	W0AIH*	DJ5AV
N8BM	VE3EXY	W4NL	W0ZR	IK7NXM
SP5INQ		W6YI	W6PBI*	JA7MSQ
US0SY	219		W7KNT	KK4SI
VK6VZ	DJ8NK	213	WA5VGI	LX2A
W2RQ	IK3VUU	DF2IS	WS9V	N4NX
	JA2FJP	DL5WW		N7FU
223	K4MWB	EI3IO	208	N9LB
AB0X	K6TA	HA1RW	AA9A	SV8CKM
HA7TM	K8ZTT	JF6DSZ	DL7BA	US6EX
I3BUI	OE8RT	K3JGJ	JA2IVK	W0LS
K4HB	SP4K	NA2M	JA2WYN	W9EWZ
N6AR	SP7GAQ	RU4SO	JG1ULJ	WD8PKF

WF4U	W3GG WA2HZO	N5JR W9OP	IZ8XQC JA1DUH JA1MCU JA2JNA JA7JWF K2TE K8NVR K9KU KF7PG KM1D KV7K N5GH SP2LNW VE7VV	185 AB6QM EA6BF G3KWK K5ZD K9US N4TJ N5UR N8LJ OE2BZL OZ1AXG SV1DPI UA9CBO W0EWM* W4UM WA3C
203 I4KDJ IZ8VYU JA2XYO JF4VZT K4XO K8AC K9MMS KK2I PA0A PY2XB R6AF W2HUV W8GC	199 JA2DPC JE1PNX K6G XO N4DW N5ZM N8DJX 198 DL1ROJ G3UJE G4BUE UA0SR W1TO W8HB	194 HB9DDO K4KDX K9JF KB9LIE KC9ARR LA7GIA ND0N SM2OAN W2LO W9OO WD8JJA 193 AG4W DL5ZB DL6ZXG EA3WD HA5BSW JA9FPI JA9NFO JO7WXN N9EN PA0LOU RN1ON UA9FAR W0RI* W9MU	189 9A2F EA8PP F6EXV FM5CD JA3RAR K4ODL SP7HOV UA7T W5DM WN6W 188 9A2NA IK0FVC JA1ANR JA1KQX JH1QAX LA5IIA UA0CA W1NT W6SR W8JV WA6YEE 187 AJ1H K0SR KN5O N2NS OK1CZ RM0F SM0NJO W7AWA 186 9A8A IZ8FWN K0BJ K7LAY KB1EFS	184 AB4IQ EA5RM IK2QPR JF1NZW JF1PUW K4HGX K6SRZ KB0EO KB4ET S57AC US8UA 183 CT1FMX CU2DX IT9INO K8VC LA3WAA LA7AFA LB8DC NK1K ON6SAS W2FP W8NW WE9R 182 DM5EE JA1SHE JA8DNV K0JGH K5KLA N5LZ UR3EO UT5UT 181 CT1IUA DJ9ON
202 DL1MGB DL2KQ EA1RT JA3CSZ JH3VNC K2NV K4JJW LY1G N7KA OK1DOT R9TO US0KW ZL3IX	197 G3SNN JH2UVL K3KO* LA4GHA LA5YJ OE4PWW OE5FIN ON4CD RZ6FA UA0SC UT5EL W2IRT	192 AD8P* I5KKW K3FN K4FJ K5XX K9EU LA7HJA N4DB W4FC W8LGJ		
201 DL1EJA K3HP UY1HY W5TCX W7DO WI8A	196 AA4HP JA5AQC K1GG K3LR K8PO KP2A RA9CMO RZ4FO W0FS W2FCR	191 DK1FW F4BKV K8FC K9LA K9YY RK2FWA W3UA WA2VYA		
200 DL9DRA EA6ET HB9CXZ JA1GTF JH2RMU JI2KXK K1GE K5MC K5RT LA7JO RA3WDK RW4NN RW7M UY0ZG W0DD W0MHK	195 4Z4DX AA5AM G3ZEM JA1EOD JA4PXC JN7FAH K7SO K9RT KF8UN N1SV N4QS	190 DK2LO EA3JL		

JA0EOK
VE3OSZ
YO2DFA

180

DF2GH
DM2DXA
DM3VL
IF9ZWA
K3PA
K6SSS
N4AH
ON5FP
W3YQ

179

AA1ON
IW0SAF
K2EP
K8WK
LA9AJA
NE1B
OK1MG
S57UN
SM4DDE
SM7GIB
SV3FUP
UT2UB
VE3DZ
W2YJ
W8TN

178

EA3CJ
JA1XEC
JA4MRL
JE2URF
K2UR
NE0U
SM7DLK
SV1JG
W1YM
W6NWS

177

9H1SP
AE5E
HA5WA
JE1BMJ
K7BG
K7GM
K9NU
SM6DHU
W1RM
W5LT
W7FI

176

EU1AB
I6FLD
JA0DET
JA2ZL
JA5IU
JA6BJV
JA8KSF
K8MN
RA3S
W4BP
W4GD
W7BEM

175

G0OIL
JA0VSH
JA1CHN
JS3CTQ
K4CN
K4DLI
N1RR
N5OK
SM5FUG
VE3FF

174

CT3MD
JA0GJJ
JA2XW
JF7DZA
JK1OPL
JR6PGB
K2PLF*
K3AJ
K4TR
K4WS
K8RRT
KB8VAO
OE1WHC
RN7F
RX3APM
UA3LNM
W2OR
W8UV
W8VVG
WT8C

173

5B4ALJ
JA2BDR
KA1J
KL0S
N5FG
W7MEM
XE2X

172

CT1EAV
G0BLB
G3NKC
HK3W
IT9ELD
IZ5MOQ
JA3FGJ
K0DEQ
K4XR
K5GKC
KA9FOX
KJ0M
OK1DWC
SP1MGM
W4FQT

171

4Z5CX
DK3WW
DL6KR
G0EHO
JA2LCP
JA6HUG
JR1TNE
K2FL*
K2KA
K3WC
K9YC
N4OGW
N7IR
N7RO
N9RC
SV1LK
WB7B
ZS1LS

170

DJ6TK
EA8JF
I1JQJ
JA6JPS
JL1SAM
JM1GYQ
K1NTR
K6FG
N0RN
N3OC
N4PY
SP3GTS
SV3KH
W8KEN
W9EVI
WA3AFS

169

HA9PP

JA7MOL
JG3IWL
JR1IZM
K1BD
K1LI
K1NU
K6ZZ
N4XX
N7US
UY5AA
WB3JFS

168

G3MXJ
IK2EGL
JA1ADT
JA1PPW
JE7JDL
K5QY
K8RYU
KR4F
N4QQ
N8BJQ
PA7F
PY5EW
SP5GH
W4SVO
W6VX
WA5YNB

167

DK5AD
IK4ADE
K4XD
K6KO
K8NK
LA5LJA
N0IJ
N7XR
RA1AOB
RN9N
S51EC
VE6WQ
W1YW
W8HC
W8OI
WA0MHJ
WA4LOX
WX0V

166

4Z1UF
DJ4SO
IV3TDM
JA1FNA
JA9LJS
K3KY

K4JLD
K4PB
K4ZYU
RM3DA
W1RR
W8ILC
WA8TXT

165

AA9D
DL7UCX
JA3ENN
JA9TWN
JE7RJS
JR7BDQ
K0BBC
K5JZ
K9MBQ
KK4CB
PE1L
SM4CTT
W5BN

164

4Z5MU
HA7UW
HB9BZA
IK0PEA
IK3SWB
JA7ZP
K1NJ
N5WA
N9FN
OH2IS
RA3DNC
W4NS

163

DJ9HX
GU4YOX
K0TT
K8TL
N3BNA
PA3C
RA3ZH
UR4CWQ
VE3CFK
W0DJC
W7AL
YL2TW

162

4O3A
9A4W
CT1GFK
F3AT
I2ZGC

IK4PLW	W6BJH	UA3SAQ	JT1CO	IK4FNF
JA1RTX	W7SX	VA3LX	K7SP	JE3GRQ
JA6GIJ	WD5BJT	W1YIF	KS3F	JL1ARF
K1KI	WX0B	W3IP	N9OY	K4RG
N8MR	158	W4TV	S55ZZ	K4YYL
W0HT	9A2JK	WP4U	UA6IGI	K8ME
W0TT	DJ4PT	155	UT5AB	N3RC
W1LW	DL1FKA	DL1RK	VE6LB	NX8Y
W7YAQ	EC3A	HB9FMN	W1SKU	SM6CUK
WW3S	JA4FKX	IK0FUX	W1VT	UW7UA
161	JJ1FXS	K4WA	W2RS*	W0GG
DK2GZ	JJ1NJC	N4HB	W6RLL	WB8B
DL6RAI	JR1GJP	NE0DX	W7AJ	WD5K
JA1DOF	K5TT	NW7E	WB3CQM	YO3DDZ
JA6VQA	KI5BLU	SM6VR	151	148
JF1WPB	NR4M	VK3HJ	DK2OY	AC6DD
JF2UPM	RU6M	W2XL	F3SG	EA7TV
JH2SON	RW3RN	W3GQ	G4GIR	F5CQ
JH4CPC	SM4EMO	ZS6EZ	JA6BEE	N2WB
K5GO	W0SZ	154	K2FW	UA2FF
K7NN	W1OX	3V8SF	N5JB	W4DKS
K8ND	W4QN	AB9V	OK1ATP	W5FIX*
LB2TB	W9RN	EU1KY	R9OK	W5FKX
N4XU	157	GM3PPE	RD3A	WS5W
OH6RA	AA4H	JA8NFV	RU3A	147
W8WEJ	G3TQZ	JH1TWT	S54A	EA3GP
WC5N	JA0UUA	JH2QMT	SP7AWG	IV3VBM
YU2TW	JA1GHH	K0KVR	SV9AHZ	JA1XQC
ZS5LB*	JE2LPC	K2LS	W7RH	JR9OPJ
160	JH7IAJ	W1NA	WA1Z	K2AX
DL1DA	K1USA	W2XI	WS7L	K3TN
HB9DHK	LY5A	W5DNT	150	KM1H
IW2FND	N5MOA	153	IT9DSZ	SP3FAR
JA2EPW	NE9Z	DL3ZA	IV3RAV	UN7LZ
JA9NLE	RU4UR	EA5BY	JA2NQG	W2KKZ
JE2OVG	SM3PHM	G3TJW	JH1NYM	146
JF2XGF	SV8ZS	HL2CFY	JH1RFR	HB9TKS
JR7MAZ	W2TA	JF1IRW	K7LV	JA1HQQ
K3MSB	W5GZ	K8VFF	K8AJS	JA4DHN
LA0FA	W7TVF*	N4TV	KU4XO	JH1GNU
LB6KC	W9AJ	N5TW	N3QE	K3RA
NY0V	YV2IF	N8II	N9CO	K5SM
RL3FA	156	OH2BLD	N9MB	K7WP
RU6L	DL4MM	SM6CLU	OE8SPW	NE3F
SP6EQZ	F6HDH	SP5CCC	OZ3SK	OZ1HX
UA0FZ	IZ4DPV	SV2AEL	RN3OG	RU0SN
UX5UO	JA9APS	UT5UY	UA6YW	W1IZL
W1BR	JE2LUN	WB8BPU	W3JX	W1ZT
W5XC	JO7HAM	WE1P	W6DAO	WA2BCK
159	K8YSE	WJ4T*	W6RW	145
AD5Q	K9GA	YS1RR	W7CT	AF4HX
CT1FPQ	KS1J	152	149	DK1WB
JH6QFJ	N4GN	AJ9C	DL7CX	EI9JF
K4RO	TF3SG		EI6FR	

HB0CC	R8TX	LA6OP	W1GD	K7FL
IZ3ENH	SV1CNS	N4XP	W2YE	K9MK
JH1QDB	UN9L	OH6NIO	W4YV	NZ9R
JJ3HGJ	VE3CV*	OK2ZV	W7OM	R7LP
JN1BMX	W2/CT1GIF	ON7DR		RN3RQ
K1OA	WB8ZRV	VE6SV	137	SM3LGO
K4OY	WD9DZV	W0SEI	CU3EQ	SM5CZK
K5KV		W4VIC	GM3YOR	SP2BMX
K7HP	142	W7IV	IZ2FOS	SP3XR
K8BL	I5HOR	W8LWU	JA3APU	W1DIG
KF6HI	IK0AGU	YL2MU	JA9RRH	W2GD
KR2Q	IZ4GWE	YO9FNP	JE6TSP	W4BUW
N1EN	JE2DZC		K2QMF	W4MBD
N4GG	K3PP	139	K2RET	W4RFZ
RT0F	K4WZ	DJ4XA	K5VWW	W5ZG
SM3DTR	K8UT	DL5CW	K8NS	W6JTI
	LA9VFA	DL5EBE	N2PK	W8HW
144	N2WM	DL6MRS	N8OC	
DL4SZB	N5XZ	DL8OH	RA3CO	134
E70T	N7QT	I0JBL	RG7G	DF7EE
EI6IZ	NA4D	IT9BLB	UN1L	IK4DCS
G4FTC	NQ7R	IZ8IEV	UU1JA	JA3OOK
GM3ITN	NY2NY	JA1TMG	W1ITU	JE1FQV
HB9BYQ	OK1DO	JA2ATE	W5ADD	K1TO
JA3GN	W2OO	K3ANS	W5ODD	K3OX
K1KA	W5VQ	K6AM	WB5JID	KA8SYV
K3VAT	W6QUV	K8RF	WP4G	KD0PO
N1IX	W7HPW	K8ROX		N9RS
N3KK	W7ZI	KU0A	136	OE1TKW
N7BT	W8RLS	LA8WG	E72U	RG6G
NI0C	WA5POK	OK1MP	ER0FEO	UA0ACG
SM4OLL		OK2QA	EU4A	W4JKC
SM5CLE	141	RC9F	IK8CNT	WO2T
W4GE	DL5MHQ	SV8ZC	K0TV	YU1AM
W9JJB	EW1BA	W0SD	KR6C	
WA9PIE	I5MXX	W5LUA	MM0SAJ	133
WC5M	IT9GSF	W9XQ*	N2ZN	9K2NO
WD5T	JA1SVP	WA8WV	OK1DW	EU1U
YO3CD	K2RW	WW2DX	SM5OJH	IZ8DFO
	N1IBM		UT3UZ	JA4OK
143	N2RJ	138	UW8SM	JA7GLB
DL1DUO	NJ3K	AA7G	W2CG	JF3LOP
DL5KUA	SV3FUO	CU2AP	W2OIB	K1ZN
DL6EN	W1AX*	DK8MCT	WB7QXU	K2CDJ
HI3T	W1OP	DK8YY		K8GI
HS0ZEE	W3BW	EI9FBB	135	KS4YT
JE3ENP	WB8CQV	EW2A	5B4MF	KU2A
JH4ALY	ZS1C	F6DDR	AA6AA	KX4TT
K0QC		HB9SLO	DJ9ZB	N9MR
K5TR	140	IK8EPC	F5PAC	OE1KM
K6NR	9A1CAL	JA1PTJ	F6FXU	OE6VIE
K7CMZ	DF2RG	JG0CQK	HB9IQB	RV4LC
K7CW	F5LVL	K1RO	IV3DXW	UQ2PZ
KJ9C	JA2VQF	KK1W	JA7LMZ	VE3WT
LZ2ZG	JR3OEH	N1CGP	JA8BNP	W0NFL
N5UW	K5WK	N7WS	JA8JL	W2QO
N6PAT	K6KLY	RW4CY	K1ZE	

132	JA2FBC	KG7CW	OK3CQD	YO2RR
AA4NC	JR7WFC	KM3V	PA5TT	
AD6W	K2MYR	N3MK	PC3T	123
IT9RDG	K5VIP	N5KM	SP6A	AC4TO
JA3DY*	K7LFY	OZ8X	SP6M	DL7JRD
JA6CBG	K8BCK	R9SG	VE3CX	G5LP
K6YUI	K9GL	S53X	VE7BV	HB0WR
KE9ET	KJ6P	SM3GQP	W8REW	IK3XJP
N6HY	NA4EA	SV3DCX	WD4LBR	IK5DNF
ON4CAS	NO9E	VQ9LA	XE1KK	JA0CRG
OZ2RH	OZ2ABI	W2WC	YU1EXY	JA3MHA
SM4BZH	PY5HOT	W4IS		JA5XAE
SM6BGG	R3VA	W6RKC	125	JA6WJL
VE3CRG	R5QA	W8MET	9A1AD	JF2WXS
W1EQ	R9AB	ZS6UT	EA1AF	JR1EBE
W4AXL	RA5BM		GW3TMP	K2PK
W4RBO	RU1AO	127	HK1MW	K3XO
W4WM	SM5CBM	JA1DDH	HK4SAN	K4ZIN
W5SL	TA1CM	JA1WLO	JA4IYL	K5GH
W7AH	UN7JX	JA2AHH	JA6VU	K9CS
W7CD	VE3DO	JA8RJE	JA7KY	KV4T
W8GNM	W2MPK	JR1XIS	JE1TSD	N2ED
W9FR	W6DR	JS2LHI	JE6UWU	N6MZ
XE2S	W9ZT	K0RW	JL1RUC	N9JV
	WB3D	K3TRM	K1HAP	N9LQ
		K9ZM	K5KG	NA2P
131	129	KM4H	K8DV	S50B
AB9M	CT3HF	KM4NS	KQ4AV	UA3DK
DK7YY	EA1YO	N1AC	LZ1XL	UT3QU
DS1JFY	HB9HFN	N1GC	N2KA	W1AO
G3UHU	JA1NWD	N6PSE	N3EN	W2JU
HS1NGR	JA2KVD	OE8HIK	N4JT	W8MK
IV3KFB	JA8JO	S55DX	ND5S	W8NJR
JA2TBS	JH0BQX	SK7AX	NW6S	W9ILY
JA7LGE	K3NK	SM0BYD	OE1AZS	WB2REM
JJ1TEA	K4TT	SP7ASZ	OZ1IKY	XE1H
JM1FHL	K6XM	V51B	RA0BA	
K7XB	N0YY	W0CP	S51NM	122
KH2L	N3KS	W0RT	UU7JM	G3NDC
N4QWZ	N3RR	W0YVA	VE3UTT	G4WFO
N5PHT	PY5EG	W3BG	W5DAW	IZ0RVI
N6RK	SM3BCS*	W3MF	W9CG	IZ7EVZ
NA5DX	W7QHE	W5AJ	WE4S	JA1MRM
NN4R				JH4JNG
ON4ON	128	126	124	JJ1DCW
R0SR	AA4SC	DJ8WD	AA7XT	K1CA
R9MJ	EI2JD	F8BPN	JA9AGN	K1YT
R9SA	IT9ZZO	G4IUF	JJ1DHY	K2MP
SV5DKL	JA2KSP	IK8GYS	KA6BIM	K7UT
W7JY	JA9AA	JJ4POR	KD4POJ	K7ZA
W8DCH	JE1LFX	JJ1DWT	KI4WCQ	KR0P
WB0TEV	JH1HHC	K2ZD	PA0TCA	LA7WCA
	K0FF	K4JKB	UA0BA	LA8PT
130	K3XA	K4XU	VE1DUN	N4DWK
DF9ZW	K4JAF	KC2LSD	W2RIJ	NA9RB
E73M	K4SE	KF8DX	W3FM	NN7X
G7VJR	K6LPO	N8NA	W6CYX	OZ3Y
HK0HEU				

RD4A	W6RFL	N2MM	W8ZR	N8KOL
UU4JMG	W7RN	N3UA	WA2USA	N9AW
VE6AX	WY1G	NA5C	WA3I	OE3SGU
121	ZL4AS	PY2PA	116	PA3AXU
AA6RR	ZS1A	RN3TT	DL7URH	RZ6MJ
DF1DB	119	SV9COL	EA5BRE	TZ4AM
DK1EI	AA3AZ	TA2RC	HA7PF	UA1ANA
DK6CQ	CT3KN	VK4CAG	HB9AZZ	UA1CGS
F4GTB	DK3GG	W1KSZ	IK0EIE	UA6XT
K1UU	DK3UA	W4NJ	IT9TQH	UN6T
K4ZO	DK3UA	W8LMG	IV3HYD	W0QQ
K6EME	EW4M	WT4Q	JA1WTI	W3RJW
KD8RQE	HB9AAQ	YO4AUL	JE2JMV	W9XX
KG9Z	HB9BCI	117	K1DC	YL2CZ
LB5WB	I2TZK	9Y4VU	K1RI	114
LB7ZG	I4MKN	9Y4VU	KT1V	AB1OC
NA2U	IU0LFQ	AE0P	N0KV	AC9EM
UQ1GWW	JA3AZD	BH4IGO	PA0JSE	AJ4A
UT4EO	JA4XGC	DL1DWT	PA3EWP	BA4DW
UU2JQ	JH6CDI	DL2VWR	RV3ID	BA7IO
VA3AYA	K5UZ	G3LAS*	UA4PCM	CT3FN
W2GG	K7EG	IK2SGB	VA7CRZ	CU3AK
W6XI	K8KWT	IK3VBB	W1ENE	DL6NB
W9YE	N1JP	IT9DAA	W1WEF	F6CWA
WA1PMA	N8PW	JA1HQT	W7GG	G3SDL
WB0O	N9UA	JA1XCZ	W7OEV	HK3PJ
WB8K	NN2L	JA4FM	W8LRO	HP3TA
XE1VIC	NT2A	JA7GYP	WQ5L	I5OYY
120	NY7T	JA7IC	115	JH6WMJ
9A5F	OH5NG	JH4HMG	AB2E	K1RV
AL7TC	OK1DT	JM3GXU	AJ4F	K2DC
FG5FR	R6FFB	K2BB	C6AGU	K3MD
HB9BLQ	SV1ACK	K5JC	CU2CE	K3OSX
HB9DHG	SV1IW	K6PJ	DL9GOA	K5RJ
IZ0LKV	UN7JID	K6SIK	EI2GLB	KB8U
IZ5NFD	W2YR	K8OOK	G4XEE	KZ4V
JA1SJV	W4HZ	K8QM	G8BCG	N2JJ
JH4GJR	W5QP*	N2BJ	G8DX	N3MN
K1ESE	XE1RCS	N3ND	HA5UK	N3NR
K2BA	118	N4IR	IU0HDC	NU8Z
K2HK	5T5PA	N4TL	IZ7JVR	OH1ZK
K3QIA	AE3T	N6MB	JH1RFM	SP6JIU
K7TM	DL5OCE	N8AA	JH3CUL	UA3FT
KA8ZPE	DL9FCY	N8XI	K0GD	VE3YF
N4BAF	HA1RB	NY4G	K0SD	W0VX
N4TB	JA4FHE	SM7BIC	K4CMS	W4TUN
N4UFP	JH4ADK	SV1AHX	K4GHS	WA1FCN
N6HC	JH4ADK	UA6J	K4GK	WA9YYY
OE3EVA	JH8DGO	UB3A	K5XM	XE3ARV
PZ5RA	JN1RQV	UR9IDX	K6FW	113
SP7ITB	JR6FC	US0YA	K8YTO	9A1A
UR5IKN	K3WGR	US1CT	K9SG	BA4RF
W2TB	K4CNW	W0IZ	KO8SCA	DJ5DT
W3OA	K8LN	W4DAO	N0IRM	DJ9RR
W4PRO	KD6UO	W4NF	N4OA	DL8CM
	LZ2HM	W4ZRZ		
	N0OK	W6SL		

DL8DYL	JG1DUZ	KZ0X	N4IQ	DF1KG
EA5KA	JR7TEQ	LA0CX	N4KE	DG7RO
G4AFJ	K0CA	N4WJ	NC6K	EA1JO
IK2OHG	K0JPL	N7BD	OZ1LCG	ER1LW
IT9AAI	K0TPP	NA1DX	RD9M	G3VAO
JA4ITW	K1KO	SP8HKT	SM5BHW	HB9BAT
JA5WIZ	K4UAS	UR6QA	SQ5EBM	HB9FAN
JH1ORA	K7PI	UT1UY	US7MM	HL3GOB
JH3GCN	K8CC	VE6KC	W0UY	IK0PRG
JR6LLN	KI4DLS	VE7CT	W4DC	IZ0BTV
K8SL	KM1C	VE7UF	W4NE	J68HZ
K9DR	LA8HGA	VE7XF	W5ZPA	JA0AOO
K9GWH	N4ZY*	W0RX	YU7AU	JA0GCI
KA4RRU	N6MA	W2SKI	ZL3NW	JA2MOG
KH6DX	N6PE	W3FOX		JL1UXH
KI0G	NA3F	W4HOG	109	JR2LJO
KT1J	OH1JP	W4NU	EA3GHZ	JR3UIC
KV1J	RU4SU	W4OX	EU4T	JR7FRW
KV4AA	SM3DMP	W5AQ	F8EZE	K1XM
N1QY	UA1ACG	W7VS	G3SVD	K2KQ
N4DJ	UA1CEI	W8MIL	JA2CXF	K4WY
N7KO	UA6AUA	W9RB	JE2EHP	K6UT
NI5F	UT6UD	WA2MUA	JO7KMB	K8OM
NK5B	W1HEO	WB9EEE	K1BZ	KN4JX
R7NA	W2CVW	WP3R	K2ONP	LU2DKT
RA4UN	W3MR	WT9U	K3PH	N1BZ
RZ3AUL	W3UL	YL3DQ	K4RDU	N5BO
SM5ARL	W4VHF	YO6HOY	K5KA	N6RFM
SP3EPG	W5VX		K6MW	NG0G
SV1FKZ	W6TC	110	KB2FCV	NY4I
SV1JFV	W8GEX	AG1A	KC2STA	PA0ZH
SV2AVP	W8HMK	CU3AN	KE1F	R5FY
UN7TW	W9SE	DL1VDL	KL7RA	R7LA
UT8MM	WA8OLN	DM2RM	N8NN	RX6DX
VE3KI	XE1RBV	EA5BYP	N9HF	S57J
W2GW	ZP6CW	EI8IU	ND4V	SM6AOU
W5JMW		F5BAR	NN4RR	UX7UN
W6BK	111	G3LNS	NU4I	UZ6LWZ
W8FAX	AA4U	G8AJM	NX7U	VU2CPL
W9VNE	AF4OX	HC1BI	PY5CC	W2UB
WA4DOU	DK2WH	I2BBJ	RW4UU	W3NRJ
WB2HJV	DK6ED	IK5RUN	RW9QA	W3XY
WS4C	DL5CL	JA9KRO	RX3AGD	W4ZYT
ZL1BYZ	EV1R	JH1VHU	TG9NX	W5VY
	G3PLP	JH7RXU	UB5ZAL	W7ACD
112	G4DBN	JR2UBS	UT7KF	W9NIO*
A92IO	IK2CHZ	K1EO	W0VHF	WA2ALY
AA4DD	IK7YZG	K3JRR	W5WP	WA8MOA
DJ1RL	JA1AUD	K4WW	WA7BNG	WC1M
EW1DO	JA1FGB	K5WAF	WB5TUF	WD9EQU
G3XGC	JA1NCZ	K6VKO	WN0L	
HB9CRV	JA2KNW	KB4MRX	XE1FAS	107
HB9G	JA5FDJ	LZ1PM	YV3AGT	4Z5LA
IZ4DIW	JE8TGI	N2CG		DK3FB
JA1SXR	K7ORK	N3HBX	108	DL2CHN
JA2HYD	K9AJ	N3IQ	AI2Q	DL5XU
JA7BXS	KM1R	N3JB	AL7R	EA5AT

EA7QW	JG5RVQ	IW3GJF	E73D	W5CWQ
G4AKY	JH2KKW	JA1BWA	EA8ZS	W5GJ
I5IHE	JJ0NCC	JA1TAA	F6AJA	W5ZO
IT9XTP	JR0EQQ	JA2MNB	F8GB	W6PH
JA5EY	K0DEW	JA6VA	G3BRD	W7DR
JA8JTH	K1PX	JA7BME	HB9CIP	W8KA
JF2WGN	K3NF	JA8RRF	HB9CQK	WA0I
K2MK	K4DSE	JE2UFF	HK3O	WA9ETW
K3SW	K5AM	JF1RYU	JA1SDV	WL7E
K3YBN	K5ZQ	JG3LGD	JA2FGL	YC0LOW
K5CD	K8JJC	K2XF	JF1EGO	YO5ODE
K5FZ	KQ3F	K7OX	JF6WTY	
K5KPE	N0JZ	K7PO	JO1WXO	103
KD2T	N2CW	K9RO	K0WK	AA5JF
KE2R	N4LR	KI5T	K1BG	AG1I
N2RR	N7NR	KT2E	K1EP	A13Q
N3DAP	N8AID	LZ1JZ	K2BLA	DJ1MM
N4RF	NI5M	N2WLG	K4KEW	DJ7PI
N6EE	OE5CSP	N3XM	K4MF	DL2HX
N8AGU	OK1AYU	N4JI	K4VIG	DL8YRM
NA5Q	OK2BVG	N4NW	K5HK	DM5TI
OE1CP	S57AL	N4SC	K6UM	EA7SG
OK2BUZ	UR3CRO	N4VN	K7TJR	EU6MM
OK3CQR	UT7UU	N6NU	K9EA	EW3LB
R0FA	UU5WW	NS3L	KA2BZS	G3BDQ
RN4AA	V73AZ	ON7PQ	KH6KG/W5	G4AAW
RV6ARZ	VQ9SS	OZ4AAL	KI0KB	G4PUQ
SP3BQD	W1CWU	PF7M	KW0A	G4VGO
SP6AXW	W2EQ	PJ2/K8ND	N2SQW	IK2ANI
US5CB	W2LE	R6YY	N3ER	JA2GQO
VE3OI	W4IR	RA6AF	N3TR	JA2OLJ
W3KB	W5JAY	RD4WM	N4MEC	JA8EJO
W6TDX	W8IW	UA3O	N4TTE	JH1DGQ
W8VK	W8OP	UA6LCN	N8MZ	JK1BSM
W9CPV	WA4MYO	UR1RWX	NJ9C	JM2RUV
WA2BOT	WA6TLA	UR2RGN	NN3Q	K2CJ
WB4TDH	WA8MCD	VE1PZ	NU4Y	K2UVV
WS1L	WW1WW	VY2ZM	RA1QX	K3FM
YL1XZ	WX3P	W1LY	RU3UR	K4LQ
	XE2YWH	W4OWY	RZ6DX	K5AV
106	YL2GN	W5KI	RZ6LB	K5JUC
AA4FL	YU3EF	W6FF	SM5CCE	K7BTW
AE2U		W8FIB	SM7CQY	K8CCV
DJ6OZ	105	WB2UFF	SO5AS	K9MUG
DL1QQ	DF2PI	WQ5W	UA9FGJ	K9XJ
DL2NOM	DF8AA	YU1NR	US5CAO	KE1IU
DL3JSW	DJ3XD		UT4EK	KJ4R
DL6CNG	DJ6KH	104	UT7EC	KJ7WY
DO4DXA	DL4ZAB	9M2AX	UX4UM	KM8AM
EA3CCN	DL6XK	AD1C	UY0MM	LX1DA
G4RGK	DO1CTL	AH0U	VE3VHB	N0RU
HA8DZ	ES1GO	CP8HD	W0YBS	N1HOQ
IU8FRE	FG8OJ	CX3CE	W1QA	N9BBQ
JA1VLK	G3YUV	DJ8ES	W2NO	N9SF
JA3NHL	HA8FW	DK3BK	W3DRY	N9TF
JE6IGP	HB9RYZ	DL4FAP	W3TMZ	OH3GD
JG3HBO	HI8RD	DL7UPN	W4UCK	OK1DQT

OK2BQU	K2LP	101	OA4TT	AI2S
OK3BRK	K2TK	AA2VG	OE3WQB	DJ6OI
OZ7JZ	K3FRK	AA4NU	OH3TY	DL1HRN
R9GM	K3KG	AB4GE	OK1PGF	DL1TPY
RA0FA	K4AQQ	AC5O	OK2BOB	DL9GTB
RA4HT	K4LM*	AC9S	OK3EY	DU7ET
RK3QY	K5ZO	CT1JGA	OK4MM	EA2AAZ
RU3OW	K6MI	D44BC	ON4LG	EA3ALD
SM3CBR	K7BHM	DH2FW	OZ5HP	EA8AXT
SM6EHY	K7UA	DK9WI	RA3AH	EC5A
SM7BHH	K8BHZ	DL1KS	RA4P	EI9E
UA3PFN	K8OQL*	DL3ANK	RA4SD	ES5NC
US2WU	KG8CW	DL5JS	RB7GG	F6ECI
VA2ZO	KN4KL	DL6JZ	RK9F	FM5GU
VA3IC	KW4BY	DM3ML	RY6M	G0VXE
VE3EDY	KX2A	EA1WX	SM2DMU	G3OIL
VE3MFA	KY6R	EU1TT	SM7NDX	G4CGG
VE3VV	LA3ANA	G3ZFC	SP5MXZ	GM3ZSP
W0UVC	N5RZ	G4DJJ	SP7JLH	I2VGW
W1CTN	N9ISN	G4FJK	SP9DH*	IK0HFO
W4AVY	NA5Z	GM3WTA	SV1PL	IK4MSV
W4MZ	NZ3M	HB9NL	UA0FDX	IS0/YO3RA
W4TMR*	OH2EA	IV3GOW	UG6GAW	IW0BYL
W5THT	OK1DTN	JA1VVX	UR7CQ	JA1BRK
W5VU	OK1JDX	JA6TMU	UT1CC	JA1CPU
W6SZN	OK3CSQ	JA7SFD	UT4IS	JA4FSH
WC6DX	ON5UE	JF1RPZ	UT7HA	JA5DQH
YO7APA	PA7TWO	JH3HGH	VE2OJ	JA8OW
	PV8ABC	JH3PRR	VE3XB	JA9CGW
102	PY2DO	JI3KDH	VK2GR	K0FLY
A6/RV6LNA	R2AB	K0LW	W0QC	K0XM
CT4BD	R3IS	K0MD	W1FC	K1DJ
DK3QM	RU3UN	K1YR	W2SF	K1NA
DK5RL	SM6WET	K2BX	W3HKK	K1NZ
DL3DXX	SP5JXK	K3SEW	W3WH	K2CBI
DL3NCR	T77V	K4KAY	W4BUE	K2CYE
DL4CW	UA1AIR	K6AAW	W4PM	K3TZV
DL4KUG	UA1CKC	K6DJ	W4WT	K4FT
DL5RDI	UA6HOF	K6XJ	W7AV	K4KSY
EI4DQ	UA9MR	K7AR	W7CB	K4UQC
ES5RW	UA9UCO	K7IA	W7QC	K4YJ
F6BWO	UW7CN	K8BN	W8GB	K7VIC
FM5WD	VE2FYR	K9PG	W9MAF	K8BZ
HB9AHL	VR2MY	KE4S	WB3HLH	K8CR
I0OSI	W1PV	KF7NN	WC4H	K8CS
I8LWL	W2LW	KN6J	WK9U	K8LE
IK0DWN	W2TX	KQ1F	WR2G	K9JU
IT9SFT	W3EKT	LA2GV	WV4TN	K9NZ
IW0HEX	W4ALF	LZ1XZ	YO6BHN	KB0EL
IZ4MJP	W4JVN	LZ2XF	YV4DYJ	KC0V
JA0HXV	W5TO	N0STL		KC4D
JA4BXL	W7IUU	N2AJ	100	KC5LT
JH9DRL	WA0IDK	N5AQ	9M6YBG	KD8BZY
JK1MZT	WD8DSB	N6WM	A41ZZ	KJ6NZ
K0EEO	WS4Y	N8AG	AA4AK	KP4N
K0YN	YO2IS	NX2X	AB4VV	KQ5M
K1PTF		NZ9Z	AC4VM	LA8W

LU5OM	W1AW
LU5YF	W1MRH
LZ3YY	W1YRC
MM0SJH	W2CCC
N0AH	W3BBO
N1KI	W4HHN
N1MD	W4OV
N2XQM	W7DT
N3AF	W8CNL
N4CRI	W8FN
N7TK	W8GDQ
N8IL	W9ZCL
N9ADG	WB4SON
NB3R	WB8BZK
NG7A	WK4Y*
NJ3I	WU2M
OE5JDL	YB1TJ
OH2OT	YL2SM
OK1DXD	YO9FLD
OK2PAZ	ZP9MCE
ON7EH	
ON7GB	
ON9CC	
OZ1ZD	
PA0INA	
PA7RA	
R3PJN	
R9JX	
RA3SD	
RA4LW	
RA6XB	
RL3BZ	
RN1A	
RT5A	
RU3GF	
S53MJ	
S59SV	
SM5AHK*	
SV1VJ	
SV1VS	
UA3AKI	
UA4PAY	
UA6CEY	
UN6P	
UR4CW	
UR4LRG	
UR8IDX	
US8UW	
UW7LL	
VE1RGB	
VE3OAT	
VE7JKZ	
VP2VA	
VR2PX	
W0GYH	
W0MU	
W1AN	