

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 28 May 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 K8MFO			
329 AA1K HA0DU UA4HBW	317 EY8MM 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 R3OK S59Z W0BV W4TO	ON7TK SP5CJQ UW2ZM W2OKM*	SM5DJZ* 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 DL1AMQ G4BWP N0TB SM6CMU UA3AKO UA3LAR	283 DJ2YA G3XTT K4WM NA0Y SP3IBS UT7UW	269 HB9AMO RV3LO SP6CIK W1ZC	262 K4UEE KR9U UX4UA* W1GL W1YY	261 DL9YX G0DQS IZ1ANU K2EK K5KC LA3MHA N6SS NO8D RWOLT
289 DF3GY IZ0AEG JA2JPA JA3ONB RX4HZ	282 DL1YD G4CCZ I0WDX K0KX N2LT N4KG* SM6CTQ UY5ZZ	268 CT1EKY DL5DSM G3WPH I2AOX RA3XDX RK4FD	260 K4DY K7ZV	

259 DF4PL EA5BM F6GCP K1LT K8PT R9FM SP9JZU	W1TSP	N6TR W2TQC W5XZ	KH6AT LY3UM RN3QN SV1ELF	233 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		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	235 IK0XEZ JA5MHD K3SWZ KC7V N6DX R7DX RA0FF VE3XN WA7NS	229 CT1FJK DJ4AX JA8EAT JI1BEX RO7T
	246 5B4AGN DJ2TI K0IEA N2NL	239 EA4KD JR3IIR K0KT	234 JA0CRI K1DG K4UTE K9NR KF0QR OZ4O PY1BVY SV1RK VE7IG*	228 AB3CV AC4G AF9H AI0O JH1HGC K1AR

K5EK	RT6T	WA2UUK	W0LYI	JH1IFS
NT0V*	SV2JAO		W0UO	K2FU
OH2BEN	VE6WZ	218	W1FJ	N5ORT
		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	I4LCK
N2WK	K6EID	ON4GG	JF3KON	K1LPS
RU3QR	KD0Q	UT4MF	K1ST	K3JT
WB6RSE	N5AW	VE3LYC	KE9I	K8EUR
	N8PR	W5PJR	KG6I	UN5J
	N9BX		N1ZZ	
226	NV9L	217	N4MM	206
E72A	SM0CCM	K5PC	SM5CZQ	AJ6T
IK0MHR	UR5EDX	UA3AGW	VO1NA	IK0IOL
JA1UQP	W9BF			JA3PIS
JF2KOZ		216	211	K2VV
K9FD	221	K8SIX	IK4DRR	K4NA
UT5JAJ	DJ5FI	N5UL	JA4DEN	K5AQ
	IZ1LBG	OE1ZL	K4MQG	K5EJ
225	JH2TPI	RZ0AF	K8ZH	KC6AWX*
A45XR	K8FH	SP3CGK	NX0I	KG9N
EA6VQ	N6VR	UT7UV	RU3SD	SM6BZV
FK8CP	W0VTT	W6XA	UR5FEO	VE3BW
JH7PFD	W1ZK	YV1DIG		WA7NB
K1MM	W6JRY		210	
K5AB	WS6X	215	I8SAT	205
K9FD/KH6	ZS4TX	JA2NDQ	JJ2LPV	HB9DDZ
N4CH		N7JW	K0MN*	JA3AAW
OE5NNN	220	W0GJ	K3WA	K1DT
RA3QK	AG8B	W2LK	MM0EAX	N4PQX
RV1CC	HB9LCW		W7JW	N9AU
RW3XZ	HL5IVL	214	209	PY2BW
VA5DX	IK6FWJ	HL3IUA	AD5A	RA1QD
W3LL	JA1SYY	JA2JW	DL5CF	W1ECT
W7KW	JR4OZR	JA6LCJ	DL9MRF	W8UN
	KA1R	JJ3PRT	JH0INP	WB8ZRL
224	N1LN	K1AM*	ON6YH	
IZ8FFA	NN4X	OE2LCM	VE1DX	204
JA6BZI	OK1CF	OK1DX	W0AIH*	DJ5AV
JA8FKO	SP8NR	RN7G	W0ZR	F6DAY
N6JV	VE3EXY	W4NL	W6PBI*	IK7NXM
N8BM		W6YI	W7KNT	JA7MSQ
SP5INQ	219		WA5VGI	KK4SI
US0SY	DJ8NK	213	WS9V	LX2A
VK6VZ	IK3VUU	DF2IS		N4NX
W2RQ	JA2FJP	DL5WW	208	N7FU
	K4MWB	EI3IO	AA9A	N9LB
223	K6TA	HA1RW	DL7BA	SV8CKM
AB0X	K8ZTT	JF6DSZ	JA2IVK	US6EX
HA7TM	OE8RT	K3JGJ	JA2WYN	W0LS
I3BUI	SP4K	NA2M	JG1ULJ	W9EWZ
K4HB	SP7GAQ	RU4SO		WD8PKF
N6AR				

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

JA0EOK
VE3OSZ
YO2DFA

180

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

DF2GH
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
161	JA4FKX	IK0FUX	W1VT	UW7UA
DK2GZ	JJ1FXS	K4WA	W2RS*	W0GG
DL6RAI	JJ1NJC	N4HB	W6RLL	WB8B
JA1DOF	JR1GJP	NE0DX	W7AJ	WD5K
JA6VQA	K5TT	NW7E	WB3CQM	YO3DDZ
JF1WPB	KI5BLU	SM6VR	151	148
JF2UPM	NR4M	VK3HJ	DK2OY	AC6DD
JH2SON	RU6M	W2XL	F3SG	EA7TV
JH4CPC	RW3RN	W3GQ	G4GIR	F5CQ
K5GO	SM4EMO	ZS6EZ	JA6BEE	N2WB
K7NN	W0SZ	154	K2FW	UA2FF
K8ND	W1OX	3V8SF	N5JB	W4DKS
LB2TB	W4QN	AB9V	OK1ATP	W5FIX*
N4XU	W9RN	EU1KY	R9OK	W5FKX
OH6RA	157	GM3PPE	RD3A	WS5W
W8WEJ	AA4H	JA8NFV	RU3A	147
WC5N	G3TQZ	JH1TWT	S54A	EA3GP
WW3S	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	UN9L	N4XP	W2YE	K9MK
IZ3ENH	VE3CV*	OH6NIO	W4YV	NZ9R
JH1QDB	W2/CT1GIF	OK2ZV	W7OM	R7LP
JJ3HGJ	WB8ZRV	ON7DR		RN3RQ
JN1BMX	WD9DZV	VE6SV	137	SM3LGO
K1OA		W0SEI	CU3EQ	SM5CZK
K4OY	142	W4VIC	GM3YOR	SP2BMX
K5KV	I5HOR	W7IV	IZ2FOS	SP3XR
K7HP	IK0AGU	W8LWU	JA3APU	W1DIG
K8BL	IZ4GWE	YL2MU	JA9RRH	W2GD
KF6HI	JE2DZC	YO9FNP	JE6TSP	W4BUW
KR2Q	K3PP		K2QMF	W4MBD
N1EN	K4WZ	139	K5VWW	W4RFZ
N4GG	K8UT	DJ4XA	K8NS	W5ZG
RT0F	LA9VFA	DL5CW	N2PK	W6JTI
SM3DTR	N2WM	DL5EBE	N8OC	W8HW
	N5XZ	DL6MRS	RA3CO	
144	N7QT	DL8OH	RG7G	134
DL4SZB	NA4D	I0JBL	UN1L	DF7EE
E70T	NQ7R	IT9BLB	UU1JA	IK4DCS
EI6IZ	NY2NY	IZ8IEV	W1ITU	JA3OOK
G4FTC	OK1DO	JA1TMG	W5ADD	JE1FQV
GM3ITN	W2OO	JA2ATE	W5ODD	K1TO
HB9BYQ	W5VQ	K3ANS	WB5JID	K3OX
JA3GN	W6QUV	K6AM	WP4G	KA8SYV
K1KA	W7HPW	K8RF		KD0PO
K3VAT	W7ZI	K8ROX	136	N9RS
N1IX	W8RLS	KU0A	E72U	OE1TKW
N3KK	WA5POK	LA8WG	ER0FEO	RG6G
N7BT		OK1MP	EU4A	UA0ACG
NI0C	141	OK2QA	IK8CNT	W4JKC
SM4OLL	DL5MHQ	RC9F	K0TV	WO2T
SM5CLE	EW1BA	SV8ZC	KR6C	YU1AM
W4GE	I5MXX	W0SD	MM0SAJ	
WA9PIE	IT9GSF	W5LUA	N2ZN	133
WC5M	JA1SVP	W9XQ*	OK1DW	EU1U
WD5T	K2RW	WA8WV	SM5OJH	IZ8DFO
YO3CD	N1IBM	WW2DX	UT3UZ	JA4OK
	N2RJ		UW8SM	JA7GLB
143	NJ3K	138	W2CG	JF3LOP
DL1DUO	SV3FUO	AA7G	W2OIB	K1ZN
DL5KUA	W1AX*	CU2AP	WB7QXU	K2CDJ
DL6EN	W1OP	DK8MCT		K8GI
HI3T	W3BW	DK8YY	135	KS4YT
HS0ZEE	W9JJB	EI9FBB	5B4MF	KU2A
JE3ENP	WB8CQV	EW2A	AA6AA	KX4TT
JH4ALY	ZS1C	F6DDR	DJ9ZB	N9MR
K0QC		HB9SLO	F5PAC	OE1KM
K5TR	140	IK8EPC	F6FXU	OE6VIE
K6NR	9A1CAL	JA1PTJ	HB9IQB	RV4LC
K7CMZ	DF2RG	JG0CQK	IV3DXW	UQ2PZ
K7CW	F5LVL	K1RO	JA7LMZ	VE3WT
KJ9C	JA2VQF	KK1W	JA8BNP	W0NFL
N5UW	JR3OEH	N1CGP	JA8JL	W2QO
N6PAT	K5WK	N7WS	K1ZE	
R8TX	K6KLY	RW4CY	K2RET	132
SV1CNS	LA6OP	W1GD	K7FL	AA4NC

AD6W	K5VIP	N5KM	SP6M	123
IT9RDG	K7LFY	OZ8X	VE3CX	AC4TO
JA3DY*	K8BCK	R9SG	VE7BV	DL7JRD
JA6CBG	K9GL	S53X	W8REW	G5LP
K6YUI	KJ6P	SM3GQP	WD4LBR	HB0WR
KE9ET	NA4EA	SV3DCX	XE1KK	IK3XJP
N6HY	NO9E	VQ9LA	YU1EXY	JA0CRG
ON4CAS	OZ2ABI	W2WC		JA3MHA
OZ2RH	PY5HOT	W4IS	125	JA5XAE
SM4BZH	R3VA	W6RKC	9A1AD	JA6WJL
SM6BGG	R5QA	W8MET	EA1AF	JF2WXS
VE3CRG	R9AB	ZS6UT	GW3TMP	JR1EBE
W1EQ	RA5BM	127	HK1MW	K2PK
W4AXL	RU1AO	JA1DDH	HK4SAN	K3XO
W4RBO	SM5CBM	JA1WLO	JA4IYL	K4ZIN
W4WM	TA1CM	JA2AHH	JA6VU	K5GH
W5SL	UN7JX	JA8RJE	JA7KY	K9CS
W7AH	VE3DO	JR1XIS	JE1TSD	KV4T
W7CD	W2MPK	JS2LHI	JE6UWU	N2ED
W8GNM	W6DR	K0RW	JL1RUC	N6MZ
W9FR	W9ZT	K3TRM	K1HAP	N9JV
XE2S	WB3D	K9ZM	K5KG	N9LQ
131	129	KM4H	K8DV	NA2P
AB9M	CT3HF	KM4NS	KQ4AV	S50B
DK7YY	EA1YO	N1AC	LZ1XL	UA3DK
DS1JFY	HB9HFN	N1GC	LZ2ZG	UT3QU
G3UHU	JA1NWD	N6PSE	N2KA	W1AO
HS1NGR	JA2KVD	OE8HIK	N3EN	W2JU
IV3KFB	JA8JO	S55DX	N4JT	W8MK
JA2TBS	JH0BQX	SK7AX	ND5S	W8NJR
JA7LGE	K3NK	SM0BYD	NW6S	W9ILY
JJ1TEA	K4TT	SP7ASZ	OE1AZS	WB2REM
JM1FHL	K6XM	V51B	OZ1IKY	XE1H
K7XB	N0YY	W0CP	RA0BA	122
KH2L	N3KS	W0RT	S51NM	G3NDC
N4QWZ	N3RR	W0YVA	UU7JM	G4WFO
N5PHT	PY5EG	W3MF	VE3UTT	IZ0RVI
NA5DX	SM3BCS*	W5AJ	W3BG	IZ7EVZ
NN4R	W7QHE	126	W5DAW	JA1MRM
ON4ON	128	DJ8WD	W9CG	JH4JNG
R0SR	AA4SC	F8BPN	WE4S	JI1DCW
R9MJ	EI2JD	G4IUF	124	K1CA
R9SA	IT9ZZO	IK8GYS	AA7XT	K1YT
SV5DKL	JA2KSP	JI4POR	JA9AGN	K2MP
W7JY	JA9AA	JJ1DWT	JI1DHY	K7UT
W8DCH	JE1LFX	K2ZD	KA6BIM	K7ZA
WB0TEV	JH1HHC	K4JKB	KD4POJ	KR0P
130	K0FF	K4XU	KI4WCQ	LA7WCA
DF9ZW	K3XA	KC2LSD	PA0TCA	LA8PT
E73M	K4JAF	KF8DX	UA0BA	N4DWK
G7VJR	K4SE	N8NA	VE1DUN	NA9RB
HK0HEU	K6LPO	OK3CQD	W2RIJ	NN7X
JA2FBC	KG7CW	PA5TT	W3FM	OZ3Y
JR7WFC	KM3V	PC3T	W6CYX	RD4A
K2MYR	N3MK	SP6A	YO2RR	UU4JMG
				VE6AX

121

AA6RR
DF1DB
DK1EI
DK6CQ
F4GTB
K1UU
K4ZO
K6EME
KD8RQE
KG9Z
LB5WB
LB7ZG
NA2U
UQ1GWW
UT4EO
UU2JQ
VA3AYA
W2GG
W6XI
W9YE
WA1PMA
WB0O
WB8K
XE1VIC

120

9A5F
AL7TC
FG5FR
HB9BLQ
IZ0LKV
IZ5NFD
JA1SJV
JH4GJR
K1ESE
K2BA
K2HK
K3QIA
K7TM
KA8ZPE
N4BAF
N4TB
N4UFP
N6HC
OE3EVA
PZ5RA
SP7ITB
UR5IKN
W2TB
W3OA
W4PRO
W6RFL
W7RN
WY1G
ZL4AS
ZS1A

119

AA3AZ
CT3KN
DK3GG
DK3UA
EW4M
HB9AAQ
HB9BCI
I2TZK
I4MKN
IU0LFQ
JA3AZD
JA4XGC
JH6CDI
K5UZ
K7EG
K8KWT
N1JP
N8PW
N9UA
NN2L
NT2A
NY7T
OH5NG
OK1DT
R6FFB
SV1ACK
SV1IW
UN7JID
W2YR
W4HZ
W5QP*
XE1RCS

118

5T5PA
AE3T
DL5OCE
DL9FCY
HA1RB
HB9DHG
JA4FHE
JH4ADK
JI8DGO
JN1RQV
JR6FC
K3WGR
K4CNW
K8LN
KD6UO
LZ2HM
N0OK
N2MM
N3UA
NA5C
PY2PA
RN3TT

SV9COL
TA2RC
VK4CAG
W1KSZ
W4NJ
W8LMG
WT4Q
YO4AUL

117

9Y4VU
AE0P
BH4IGO
DL1DWT
DL2VWR
G3LAS*
IK3VBB
IK5DNF
IT9DAA
JA1HQT
JA1XCZ
JA4FM
JA7GYP
JA7IC
JH4HMG
JM3GXU
K2BB
K5JC
K6PJ
K6SIK
K8OOK
K8QM
N2BJ
N3ND
N4IR
N4TL
N6MB
N8AA
N8XI
NY4G
SM7BIC
SV1AHX
UA6J
UB3A
UR9IDX
US0YA
US1CT
W0IZ
W4DAO
W4NF
W4ZRZ
W6SL
W8ZR
WA2USA
WA3I

116

DL7URH
EA5BRE
HA7PF
HB9AZZ
IK0EIE
IT9TQH
IV3HYD
JA1WTI
JE2JMV
K1DC
K1RI
KT1V
N0KV
PA0JSE
PA3EWP
RV3ID
UA4PCM
VA7CRZ
W1ENE
W1WEF
W7GG
W7OEV
W8LRO
WQ5L

115

AB2E
AJ4F
C6AGU
CU2CE
DL9GOA
EI2GLB
G4XEE
G8BCG
G8DX
HA5UK
IU0HDC
IZ7JVR
JH1RFM
JH3CUL
K0GD
K0SD
K4CMS
K4GHS
K4GK
K5XM
K6FW
K8YTO
K9SG
KO8SCA
N0IRM
N4OA
N8KOL
N9AW
OE3SGU
PA3AXU

RZ6MJ
TZ4AM
UA1ANA
UA1CGS
UA6XT
UN6T
W0QQ
W3RJW
W9XX
YL2CZ

114

AB1OC
AC9EM
AJ4A
BA4DW
BA7IO
CT3FN
CU3AK
DL6NB
F6CWA
G3SDL
HK3PJ
HP3TA
I5OYY
IK2SGB
JH6WMJ
K1RV
K2DC
K3MD
K3OSX
K5RJ
KB8U
KZ4V
N2JJ
N3MN
N3NR
NU8Z
OH1ZK
SP6JIU
UA3FT
VE3YF
W0VX
W4TUN
WA1FCN
WA9YYY
XE3ARV

113

9A1A
BA4RF
DJ5DT
DJ9RR
DL8CM
DL8DYL
EA5KA
G4AFJ

IK2OHG	K0JPL	N4WJ	NC6K	EA1JO
IT9AAI	K0TPP	N7BD	OZ1LCG	ER1LW
JA4ITW	K1KO	NA1DX	RD9M	G3VAO
JA5WIZ	K4UAS	SP8HKT	SM5BHW	HB9BAT
JH1ORA	K7PI	UR6QA	SQ5EBM	HB9FAN
JH3GCN	K8CC	UT1UY	US7MM	HL3GOB
JR6LLN	KI4DLS	VE6KC	W0UY	IK0PRG
K8SL	KM1C	VE7CT	W4DC	IZ0BTV
K9DR	LA8HGA	VE7UF	W4NE	J68HZ
K9GWH	N4ZY*	VE7XF	W5ZPA	JA0AOO
KA4RRU	N6MA	W0RX	YU7AU	JA0GCI
KH6DX	N6PE	W2SKI	ZL3NW	JA2MOG
KI0G	N6RK	W3FOX		JL1UXH
KT1J	NA3F	W4HOG	109	JR2LJO
KV1J	OH1JP	W4NU	EA3GHZ	JR3UIC
KV4AA	RU4SU	W4OX	EU4T	JR7FRW
N1QY	SM3DMP	W5AQ	F8EZE	K1XM
N4DJ	UA1ACG	W7VS	G3SVD	K2KQ
N7KO	UA1CEI	W8MIL	JA2CXF	K4WY
NI5F	UA6AUA	W9RB	JE2EHP	K6UT
NK5B	UT6UD	WA2MUA	JO7KMB	K8OM
R7NA	W1HEO	WB9EEE	K1BZ	KN4JX
RA4UN	W2CVW	WP3R	K2ONP	LU2DKT
RZ3AUL	W3MR	WT9U	K3PH	N1BZ
SM5ARL	W3UL	YL3DQ	K4RDU	N5BO
SP3EPG	W4VHF	YO6HOY	K5KA	N6RFM
SV1FKZ	W5VX		K6MW	NG0G
SV1JFV	W6TC	110	KB2FCV	NY4I
SV2AVP	W8GEX	AG1A	KC2STA	PA0ZH
UN7TW	W8HMK	CU3AN	KE1F	R5FY
UT8MM	W9SE	DL1VDL	KL7RA	R7LA
VE3KI	WA8OLN	DM2RM	N8NN	RX6DX
W2GW	XE1RBV	EA5BYP	N9HF	S57J
W5JMW	ZP6CW	EI8IU	ND4V	SM6AOU
W6BK		F5BAR	NN4RR	UX7UN
W8FAX	111	G3LNS	NU4I	UZ6LWZ
W9VNE	AA4U	G8AJM	NX7U	VU2CPL
WA4DOU	AF4OX	HC1BI	PY5CC	W2UB
WB2HJV	DK2WH	I2BBJ	RW4UU	W3NRJ
WS4C	DK6ED	IK5RUN	RW9QA	W3XY
ZL1BYZ	DL5CL	JA9KRO	RX3AGD	W4ZYT
	EV1R	JH1VHU	TG9NX	W5VY
112	G3PLP	JH7RXU	UB5ZAL	W7ACD
A92IO	G4DBN	JR2UBS	UT7KF	W9NIO*
AA4DD	IK2CHZ	K1EO	W0VHF	WA2ALY
DJ1RL	IK7YZG	K3JRR	W5WP	WA8MOA
EW1DO	JA1AUD	K4WW	WA7BNG	WC1M
G3XGC	JA1FGB	K5WAF	WB5TUF	WD9EQU
HB9CRV	JA1NCZ	K6VKO	WN0L	
HB9G	JA2KNW	KB4MRX	XE1FAS	107
IZ4DIW	JA5FDJ	LZ1PM	YV3AGT	4Z5LA
JA1SXR	JE8TGI	N2CG		DK3FB
JA2HYD	K7ORK	N3HBX	108	DL2CHN
JA7BXS	K9AJ	N3IQ	AI2Q	DL5XU
JG1DUZ	KM1R	N3JB	AL7R	EA5AT
JR7TEQ	KZ0X	N4IQ	DF1KG	EA7QW
K0CA	LA0CX	N4KE	DG7RO	G4AKY

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	AI3Q
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
JG5RVQ	IW3GJF	E73D	W5CWQ	OK2BQU
JH2KKW	JA1BWA	EA8ZS	W5GJ	OK3BRK

OZ7JZ	K3KG	AA4NU	OH3TY	DL1HRN
R9GM	K4AQQ	AB4GE	OK1PGF	DL1TPY
RA0FA	K4LM*	AC5O	OK2BOB	DL9GTB
RA4HT	K5ZO	AC9S	OK3EY	DU7ET
RK3QY	K6MI	CT1JGA	OK4MM	EA2AAZ
RU3OW	K7BHM	D44BC	ON4LG	EA3ALD
SM3CBR	K7UA	DH2FW	OZ5HP	EA8AXT
SM6EHY	K8BHZ	DK9WI	RA3AH	EC5A
SM7BHH	K8OQL*	DL1KS	RA4P	EI9E
UA3PFN	KG8CW	DL3ANK	RA4SD	ES5NC
US2WU	KN4KL	DL5JS	RB7GG	F6ECI
VA2ZO	KW4BY	DL6JZ	RK9F	FM5GU
VA3IC	KX2A	DM3ML	RY6M	G0VXE
VE3MFA	KY6R	EA1WX	SM2DMU	G3OIL
VE3VV	LA3ANA	EU1TT	SM7NDX	G4CGG
W0UVC	N5RZ	G3ZFC	SP5MXZ	GM3ZSP
W1CTN	N9ISN	G4DJJ	SP7JLH	I2VGW
W4AVY	NA5Z	G4FJK	SP9DH*	IK0HFO
W4MZ	NZ3M	GM3WTA	SV1PL	IK4MSV
W4TMR*	OH2EA	HB9NL	UA0FDX	IS0/YO3RA
W5THT	OK1DTN	IV3GOW	UG6GAW	IW0BYL
W5VU	OK1JDX	JA1VVX	UR7CQ	JA1BRK
W6SZN	OK3CSQ	JA6TMU	UT1CC	JA1CPU
WC6DX	ON5UE	JA7SFD	UT4IS	JA4FSH
YO7APA	PA7TWO	JF1RPZ	UT7HA	JA5DQH
	PV8ABC	JH3HGH	VE2OJ	JA8OW
	PY2DO	JH3PRR	VE3XB	JA9CGW
102	R2AB	JI3KDH	VK2GR	K0FLY
A6/RV6LNA	R3IS	K0LW	W0QC	K0XM
CT4BD	RU3UN	K0MD	W1FC	K1DJ
DK3QM	SM6WET	K1YR	W2SF	K1NA
DK5RL	SP5JXK	K2BX	W3HKK	K1NZ
DL3DXX	T77V	K3SEW	W3WH	K2CBI
DL3NCR	UA1AIR	K4KAY	W4BUE	K2CYE
DL4CW	UA1CKC	K6AAW	W4PM	K3TZV
DL4KUG	UA6HOF	K6DJ	W4WT	K4FT
DL5RDI	UA9MR	K6XJ	W7AV	K4KSY
EI4DQ	UA9UCO	K7AR	W7CB	K4UQC
ES5RW	UW7CN	K7IA	W7QC	K4YJ
F6BWO	VE2FYR	K8BN	W8GB	K7VIC
FM5WD	VE3EDY	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		KC5LT
JH9DRL	WA0IDK	N5AQ	100	KD8BZY
JK1MZT	WD8DSB	N6WM	9M6YBG	KJ6NZ
K0EEO	WS4Y	N8AG	A41ZZ	KP4N
K0YN	YO2IS	NX2X	AA4AK	KQ5M
K1PTF		NZ9Z	AB4VV	LA8W
K2LP	101	OA4TT	AC4VM	LU5OM
K2TK	AA2VG	OE3WQB	AI2S	LU5YF
K3FRK			DJ6OI	

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	
W1AW	
W1MRH	