

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 29 Nov 2025, 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 Digital 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	328 UA4CC	317 W3LPL	RA7A RZ3AM SP2FAX	NN4T UA6A	299 K4TEA N1BUG SV1FJA SV8CS UX1UA W7UT
341 EA8AK	325 K9UWA UA2FF	316 IK4WMA K5RK N1DG OH3SR W2VO	310 I4AVG RA3CQ SM5BFJ SM6CVX W5IZ	304 DJ0MDR GM3GAV SM3GSK	
340 K1ZM	324 EY8MM K2TQC K4PI OH2BO S50A W1NG	315 PE5T S50U W1JR	309 I4EWH IK4MGP	303 F5LGE G0JHC GM3YTS JA1BK JA4LKB K1UO RU3DX	298 9A2AJ DF2UU IK2DFZ OE6IMD OZ3PZ RA3DX SM5CEU
339 W4DR W4ZV	323 SP5EWY	314 IK4GME NX4D OG2M OK3GU OZ1LO RW2A UA4CR	308 IV3PRK K4SV K8GG UT3UA	302 DL4MCF SV8JE	297 DK5PR N4CC OM2XW W0FLS
334 N4WW	322 UX0UN W3UR	313 GM3POI OE3GCU OZ7YY	307 DJ7MI N4RJ OH5VT VE3EJ	301 DL9KR F6BKI LZ2JE N1RJ N3XX SM3EVR SP3EPK	296 DF3GY F5NTV G4PWA ON5NT RY9C W1JZ
331 K5UR LZ2DF UT7QF	321 WB9Z	312 OH1MA S54E	306 EA6SX K4CIA SM0AJU WT3Q YU1FW	300 G3KMA I2ZFD JA2JPA JA4DND JA4LXY OE1WEU PA3FQA VA3EF	295 K3UA
330 AA1K HA0DU OH1XX R4GM	320 K8MFO SM4HCM W8UVZ	311 DF3CB DJ6RX DJ9KG G3PQA KJ9I	305 CT1EEB JA7NI K4ZW N4IS		294 DL1AMQ JH2FXK LA5HE N0TB
329 K3UL UA4HBW	319 N0XA SM4CAN UT5UGR W9ZR				
	318 4X4DK				

RJ3AA WD5COV	287 DL1RWN G3XTT N2QT RK4FD VA3DX W4PK	JA2PJC K1CP S59Z W4TO	SP6AEG UW2ZM	267 LU8DPM RZ3DX	260 K1LT K4DY UT9FJ
293 JH4UYB S58T		280 EA6NB KG4W RV3LO SP6HEQ YO3APJ	274 CT1EKY G3TXF JA8ISU K1ZZ KF2O W6UB	266 G4OBK K1QX NR1R R3LA W1GL W8TE W8XD	259 DF4PL F6GCP G3ZSS I1FQH K8FL R9FM
292 G4BWP IK1GPG IZ0AEG JR2KDN OZ1BTE SM5AQD SP3IBS SV1AOZ W3YX W5ZN W8TOP	286 DJ2YA K3SX N3SL PA0WRS UA3AB UT7UW W8AV	279 IK4DRY JR7VHZ N2TK N5DG SM6CNN SP5CJQ UA6MF	273 IK8HJC K2CL K5BG MD0CCE RA3DA SM6CCO UA3DPM	265 AA4V* AA6YQ AA7A EA5BM EI7BA K4XP RW0LT SP5DIR YO5BRZ	258 KW9A N2NL RN3CT VE3QAA
291 9A7V I5NPH KD9SV R7NW SM3NRY SM6CMU SP3E UA3LAR UT7UJ	285 G4CCZ K5XI UR5WA	278 DK0EE F6BEE JA3FYC K5DU RU3FM	272 9A2EU DL1DUL DL2OE OH1LEU PA7MM SP6CIK	264 IK2YCW K7ZV	257 K1GUN K9NW N4II N8TR W9YSX
290 UA3AKO UT1UY	284 SP3DV UX1AA	277 AA4MM DJ9VA DK5WL F6AOJ HB9AMO IK5BAF OH3BU ON7TK SP9DWT	271 EU7A G4GED JA5AUC OZ1CTK SM5KNV SP9JZU	263 IZ1ANU K9OW KX4R LA5IIA N3NT W2SM W3AP	256 9A5CY JA5BZL JH1GZE K5VRX KY7M SV8GFW W1TSP W3DF
289 JA3ONB K0KX K4WM N8DX RX4HZ US4EX	283 DL7VEE JA5EXW JH4IFF K4SO N7NR NA0Y NO3M R3OK SM6DHF	276 G3LZQ N8RR N9IW OK1AWZ VE2TZT	270 AA1V LA3MHA OE5KE SV8BHN	262 G0DQS IK5HHA KR9U N5KD W1YY	255 IV3ODE K4QL N2MF R5AJ UX0FF VK4MA W3KX W5OZI
288 CT1APE HB9BGV PA3GCV SL0ZG SP7VC UA4LY US5WE W0JX WK3N	282 DL1YD HB9BIN I0WDX IK6DLK K8KS K9CT N2LT NJ6P SM6CTQ UY5ZZ W0BV W2YC	275 9A1CCY F5NBU I2AOX IK4CIE K2UO K4IQJ	269 K6ND KD5M W1ZC	261 9A4T DL9YX K2EK K5KC N6SS NO8D SP1S	254 AA1QD I1EIS N0AT OM3DX WA4FFW

253 5B4AGN IV3YYK JQ3DUE K5ESW S58Q UA1OMS W0YG	OE2LCM R7IA WA7NS WB3AVN YO9HP	N4XM N5TY* N7RT OK1DWJ SP5GRM UA3TT VE1YX VE3NH	236 AB4I K1JO K5EK K9NR K9ZO KC7V OK2ZI OZ4O SP8AJK	HA9RE IK0YUT N6AR N7NG ON4ACG W9IXX	JR6EZE K9FD* ON4GG SP3CGK US0SY UT5JAJ VE6WZ W0VTT
252 EA1DR JA2VPO JF2MBF JG3QZN JR3IIR ON4AOI PA4VHF R5DT S52F W3UM	246 DJ2TI F2JD IK0MHR JF8QNF K2FF N6TR TF4M UR5EDX W2TQC W5XZ	240 EA6ET G8VR JA5MHD JR3GWZ K0JUH K0KT K1FZ K1ZG K9OT LA2XPA UR5MID VO1NA	235 CX6VM EA6VQ JA0FSB JH4ADV K3SWZ N6DX R7DX VE3XN	230 DF6PB JA1CMD KD0Q N8JV SM3NXS W4GF W4VQ	225 A45XR JH7PFD K1MM K5AB K9FD/KH6* N4CH RA3QK RV1CC RW3XZ SP8NR VA5DX W7KW
251 DJ7RD DL9RT JH0BBE PY2RO W5UN W7LR	245 DL4CF JA1GV JA7QVI N9US RL9F RY7G W9XY	239 AJ6T K1DG K1HTV KH6AT LY3UM NV9L RN3QN RU3QR SV1ELF SV1RK UW5ZM	234 IZ8FFA JG1ULJ K1AR K4UTE KF0QR PY1BVY S51DI	229 CT1FJK DJ4AX JA8FKO JI1BEX OE5NNN RO7T	224 MM0EAX N0AV N8BM* SP5INQ SP7GAQ VK6VZ W2RQ
250 AB3CV HB9RG IK0XBX NQ1K OZ8BZ	244 AG9S DK6WL F6BLP JA1HGY ON4IQ	238 AC4G DL8WN IK0XEZ IZ1LBG JA0DAI OK1CF RA0FF VO1HP W3LL	233 DJ5FI K0CS K2UU KA7T SK3PY UA4HAU VA2WA W1TC W7AO	228 AF9H AI0O E72A K4HB N2WK OH2BEN VE3DZ WB6RSE	223 AB0X DJ8NK HA7TM JH2TPI RT6T SV2JAO UR5FEO ZS4TX
249 AI9L K9RX SP5DRH	243 DK2JX DK3DG JA0CRI ON4ATW S57A SV8CKM W9RPM WX4G	237 DL7MAE IW1ARB NI0G OM4EX WA7NB	232 EA1N FK8CP JA8EAT JH1HGC K2AZ K4XL NI6T UA3AP	227 DL7HU ES1RA I3BUI IK0HBN IK6FWJ JA1UQP JA2NDQ JA9CHI K1FK K3NW N6JV W9BF	222 IV3JVV K3SV K6EID K8FH K8ZTT N5AW N5JR N8PR N9BX SM0CCM
248 K3WW K5RX SM3VAC T77C W9NGA	242 EA4KD KG7H		231 4X4NJ	226 9A8A DL5WW JA6BZI JF2KOZ	
247 K0IEA K6XT NN4X NO2R	241 JA1SYY JA3EMU K5ZK KA9CFD				

221 JA2WYN JJ3PRT K4MWB K8SIX KV7K N6VR VE3LYC W1ZK W6JRY WS6X	UA3AGW	212 AA9A DL9GFB K4MQG K8ZH KE9I KG6I N1ZZ N4MM NX0I OZ1AXG SM5CZQ W1ECT WB9CIF	N5ORT RU3ZX UN5J UY1HY W6PJ W9EWZ	UA0SR US6EX W2HUV WD8PKF WF4U WI8A	200 G0OIL IK0FVC JA1GTF JH2RMU K1GE K1GG LA5YJ RW4NN RW7M UY0ZG W0DD W1NT W3GG
220 AG8B DK2NG HB9LCW HL5IVL JF3KON JR4OZR KA1R N1LN VE3EXY	216 F6DAY JA9PPC K3JGJ N4PQX N5UL OE1ZL RZ0AF W0GJ W6XA YO7LCB YU3AA YV1DIG	211 EA1RT IK4DRR JA4DEN K3WA RU3SD WA5VGI WP4U	207 K1DT K1LPS K3JT K8EUR N9AU* PY2BW PY2XB W0LS	203 AA5AM JA2XYO JE1PNX K4XO K9MMS KK2I NK1K OH1TV PA0A R6AF W7DO W8GC WA2HZO	199 DK2LO G0BNR HB9DDO JA2DPC K6GXO KB8VAO N4DW W1TO YO2DFA
219 IK3VUU JA2FBY JA2FJP LA7GIA LB8DC OE8RT RA3WDK SP4K UT7UV WA2UUK	215 IZ8FWN JH0INP N7JW RA1QD W0UO W2LK W6YI	210 I8SAT JA7MSQ JJ2LPV UW7LL W7JW	206 IK0IOL JA3PIS K2VV K3LR K5AQ K5MC K8AC N8DJX SM6BZV US0KW VE3BW	202 DL1MGB DL2KQ DL9DRA JA2JNA JA3CSZ JA5AQC JH3VNC JI2KXK K2NV LY1G N5ZM N7KA OK1DOT R9TO RA3S UA9FAR ZL3IX	198 DL1ROJ G3UJE G4BUE I5KKW IT9JNR JA4PXC RX3APM W8HB
218 AD5A DJ4PI DK0PM IK1YDB JA6LCJ JA8CDT K0EU K5EJ K5UO UT4MF W5PJR	214 DL7BA HL3IUA IZ8VYU JA2JW K4NA LA4GHA LA7JO OK1DX RN7G W4NL	209 DL5CF DL9MRF EU1KY HB9CXZ HB9DDZ JA0UUA KG9N N9LB VE1DX W0ZR W7KNT W9OO	205 F6EXV I4KDJ JA3AAW K9YY KA9FOX W8UN WB8ZRL	201 AG4W CU2DX DL1EJA JF1PUW JO7WXN K3HP W0MHK W2IRT W5TCX	197 G3SNN JE1BMJ JH2UVL K8NVR OE4PWW OE5FIN ON4CD RZ6FA UA0SC UT5EL W0FS W4UM XE2X
217 DM5EE JH1IFS K5PC ON6YH	213 DF2IS EI3IO HA1RW JA2IVK JF6DSZ K1ST NA2M* RU4SO W0LYI W1FJ W2WG W3YY WS9V	208 G3NSM I4LCK JA9FPI JF4VZT K2FU K5RT LA7HJA	204 DJ5AV EA5KA F4BKV IK7NXM JA9NFO K4JJW K9US KK4SI LX2A N4NX N4QS N7FU SM2OAN		196 4Z4DX

AA4HP	WA2VYA	188	KB4ET	179	W4BP
IK4PLW		AB4IQ	N9RC	IT9ELD	W4GD
JA3RAR	192	CT1FMX	S57AC	IW0SAF	YO7NE
K8PO	9A2NA	JA1KQX	US8UA	JA9NLE	
KP2A	JA7JWF	KB0EO	UT2UB	JR7BDQ	175
ND0N	JH1RFR	KB1EFS	W2YJ	K0TT	JA1CHN
RA9CMO	K3FN	KE9ET		K8WK	JH2QMT
RZ4FO	K4FJ	KL0S	183	N2PK	JS3CTQ
W2FCR	K5XX	N8LJ	HK3W	OK1MG	K4DLI
	K7GM	RM0F	IT9INO	S57UN	K5GKC
195	K9EU	W1YM	K4CN	SM4DDE	LA5LJA
EA3JL	KF7PG	W6SR	K8RRT	SV3FUP	N7IR
EA5RM	LA0FA	W8JV	K8VC	W8KEN	N7XR
G3ZEM	N4DB	WA6YEE	N9MB		PE1L
JA0EOK	OH2IS		NN2L	178	SP1MGM
JA1EOD	W3UA	187	ON6SAS	4Z5CX	TF3SG
JH1QAX	W3YQ	AJ1H	W2FP	EA3CJ	VE3FF
JN7FAH	W8LGJ	JA8DNV	W8NW	JA4MRL	W8HC
K3PA		K0SR		JL1SAM	WX0V
K7SO	191	K6SRZ	182	K2UR	
K9RT	CT3MD	KN5O	DJ9ON	NE0U	174
KF8UN	JA1ANR	N2NS	DK3UA	SM7DLK	4Z5MU
N1SV	K0BBC	OK1CZ	JA1SHE	SV1JG	JA0GJJ
W5ZG	K0JGH	SP3FAR	JA3ENN	W6NWS	JA1PPW
W9OP	K8FC	W7AWA	N3OC	W7MEM	JA2XW
	K9LA		UR3EO	ZS1LS	JA7MOL
194	NE1B	186		177	JF7DZA
JA1XEC	RK2FWA	IK2QPR	181	9H1SP	JK1OPL
K4KDX	WE9R	JA2LCP	DK3WW	AE5E	JR6PGB
K9JF		K0BJ	JA2BDR	CT1GFK	K1KI
KB9LIE	190	K7LAY	JA9TWN	K3WC	K2KA
LA7AFA	IZ8XQC	YL2TW	JN4MMO	K4RG	K3AJ
SM7GIB	JA0VSH		K2EP	K9NU	K4TR
W2LO	JA1DUH	185	LZ2ZG	OK1DWC	K4WS
W4FC	JA1MCU	AB6QM	VE3OSZ	SM6DHU	N1EN
WD8JJA	K2TE	CT1EAV	W9AJ	W2OR	OE1WHC
WN6W	K9KU	EA6BF		W5LT	RN7F
	KM1D	G3KWK	180	W7FI	UA3LNM
193	N4XU	IK3SWB	CT1FPQ	WB7B	W8UV
CT1IUA	N5GH	K5ZD	DM2DXA		W8VVG
DF2GH	SP2LNW	LA3WAA	DM3VL	176	WT8C
DK1FW	VE7VV	N4TJ	EA8JF	EU1AB	
DL5ZB		N5UR	IK4ADE	G0BLB	173
DL6ZXG	189	OE2BZL	JE2URF	I6FLD	5B4ALJ
EA3WD	9A2F	SV1DPI	K6SSS	JA0DET	I1JQJ
HA5BSW	AA1ON	UA9CBO	K7BG	JA5IU	JG0CQK
K4ODL	EA8PP		LA9AJA	JA6BJV	K1NTR
N5LZ	FM5CD	184	N1RR	JA8KSF	K4XR
N9EN	SM0NJO	HA5WA	N4AH	K8MN	K9YC
PA0LOU	SP7HOV	JA2ZL	ON5FP	N5OK	KA1J
RN1ON	UA7T	JF1NZW	W1RM	RL3FA	N5FG
UA0CA	WA3C	K4HGX	W7BEM	SM5FUG	PY5EW
W9MU		K5KLA	W8TN		UN9L

W3IP	N7US	JA1FNA	K8TL	UX5UO	N5MOA
172	UT8MM	JA9LJS	OK2QA	W1BR	NE9Z
EA7TV	UY5AA	K1KA	UR4CWQ	W5XC	RU4UR
G3NKC	W6RW	K3KY	VE3CFK	W9RN	SM3PHM
IZ5MOQ	W7YAQ	K4JLD	W7AL	WX0B	SV8ZS
JA3FGJ	WB3JFS	K4PB	162	159	W2TA
JG3IWL	168	K4WA	4O3A	JA4FKX	W5GZ
K0DEQ	G3MXJ	K4ZYU	9A4W	JA9APS	WS7L
K1BD	I2ZGC	RM3DA	F3AT	JH6QFJ	YV2IF
K6FG	IK2EGL	W0DJC	IZ4DPV	JL1RUC	156
KJ0M	JA6VQA	W1RR	JA6GIJ	K4RO	AB9V
VE6WQ	JE7JDL	W8ILC	JR5JAQ	OK2ZV	FM5BH
W3JX	JF2UPM	WA8TXT	LB6KC	UN7JX	IZ8IEV
W4FQT	K4XD	165	N8MR	W3HKK	JE3GRQ
WA9PIE	K5QY	DL7UCX	RW3RN	W6BJH	JO7HAM
WC4X	K8RYU	F6HDH	W0HT	W7SX	K0QC
171	KR4F	HB9TKS	W0TT	WD5BJT	K8YSE
AA9D	N4QQ	IK0AGU	W1LW	158	KS1J
DL6KR	N8BJQ	JE7RJS	W8WEJ	AA6AA	N3RC
G0EHO	PA7F	JH7CFX	161	CT1FCX	N3UA
HA9PP	SP5GH	K5JZ	DK2GZ	DJ4PT	N7WS
JA6HUG	SV2AEL	KK4CB	DL6RAI	DL1FKA	UA3SAQ
JR1TNE	W4SVO	N4HB	HB9DHK	G4GIR	VA3LX
K1NU	W6VX	N9FN	JA1DOF	IT9DSZ	W1YIF
KI5BLU	W8OI	NY0V	JH4ALY	JH1TWT	W4TV
N0RN	WA0MHJ	RC9F	K1USA	J11FXS	155
N4OGW	WA5YNB	SM4CTT	K5GO	J11NJC	DL1RK
N7RO	167	SP6EQZ	K8ND	JR1GJP	DL4SZB
RA3DNC	DK5AD	W5BN	LB2TB	K1CA	K2LS
SV1LK	EC3A	164	N4GN	K5TT	NE0DX
170	EI6FR	GU4YOX	OE5RLM	K9GA	NW7E
DJ6TK	K6KO	HA7UW	OH6RA	OZ1HX	SM6VR
JA6JPS	K8NK	HB9BZA	VK3HJ	RU6M	W2XI
JE3ENP	K9MBQ	JA1RTX	YU2TW	SM4EMO	WE1P
JF1WPB	N0IJ	JA7ZP	160	W0SZ	WS5W
JM1GYQ	N3BNA	JH2SON	AD5Q	W1OX	ZS6EZ
K6ZZ	OH2BLD	K1NJ	DK1WB	W2XL	154
N4PY	PA3C	N5WA	DL1DA	W3GQ	3V8SF
SP3GTS	RA1AOB	RA3ZH	IK0FUX	W4QN	GM3PPE
SV3KH	RN9N	RN3OG	IW2FND	157	HB9BUN
W9EVI	S51EC	W4DKS	JA2EPW	AA4H	JA8NFV
WA3AFS	W1YW	W4NS*	JE2DZC	AC6DD	JR3OEH
169	WA4LOX	WP4G	JE2OVG	DL4MM	K0KVR
IK0PEA	WB0TEV	WW3S	JF2XGF	DL6MRS	KR2Q
JA1ADT	WC5N	163	JR7MAZ	EA5BY	NX8Y
JE2LPC	166	9A2JK	K3MSB	G3TQZ	SV1CNS
JR1IZM	4Z1UF	DJ9HX	K3RA	HB0CC	W1NA
K1LI	DJ4SO	JE2LUN	NR4M	JA1GHH	W5DNT
N4XX	HB9FMN	JH4CPC	RU6L	JH7IAJ	YS1RR
	IV3TDM	K7NN	UA0FZ	LY5A	

153	N2ZN	WD5K	JK1AJX	NN4R	140
AJ9C	N5JB	YO3DDZ	K3VAT	W0IZ	9A1CAL
CU2AP	OK1ATP		K4OY	W6QUV	JA4OK
DF2RG	RD3A	148	K8BL	WB8CQV	K5WK
DL3ZA	RU3A	DK2CC	KF6HI	WB8ZRV	K6KLY
G3TJW	S54A	F5CQ	KR0P	WD9DZV	KF8DX
HL2CFY	SP7AWG	F5LVL	N1CGP		N4XP
IZ3ENH	SV9AHZ	F5PAC	N4GG	142	OH6NIO
JF1IRW	W7CT	G4FTC	N6PSE	I5HOR	ON7DR
JR9OPJ	W7RH	JH1QDB	RT0F	JA2ATE	UN1L
K7SP	WA1Z	JL1UXH	SM3DTR	JH0BQX	VE6SV
K8VFX	WA2BCK	N2WB	W5ADD	JR7WFC	W0SEI
KD0PO		N5XZ		K3PP	W4NU
LZ1PM	150	NE3F	144	K4WZ	W7IV
N4TV	EA1AF	W5FKX	CU3EQ	K6EME	W8LWU
N5TW	IV3RAV	W9JJB	DL5CW	KK1W	WO2T
N8II	JA1SVP		DL5KUA	LA9VFA	YL2MU
R9OK	JA2NQG	147	E70T	MM0SAJ	YO9FNP
SM6CLU	K0RS	EA3GP	EI6IZ	N7QT	
SP5CCC	K1OA	IV3VBM	GM3ITN	NA4D	139
UT5UY	K5TR	JA1XQC	HB9BYQ	NQ7R	DF7EE
WB8BPU	K7LV	JN1BMX	HS0ZEE	NY2NY	DJ4XA
	K8AJS	K8UT	I5MXX	OK1DO	DL5EBE
152	KU4XO	KM1H	IT9GSF	W2OO	DL8OH
EW2A	LA6OP	N1IBM	IV3DXW	W5LUA	DS1JFY
JT1CO	N3QE	NA5C	IZ4GWE	W5VQ	HB9CQK
K9MK	N9CO	PC3T	JA3GN	WA5POK	JA1TMG
KQ4AV	OE8SPW	W1OP	JE1FQV		K3ANS
KS3F	ON6AA	W2KKZ	K0VSH	141	K6AM
N9OY	SQ5EBM		KJ9C	AC9S	K8GI
S55ZZ	UA6YW	146	LA9GX	DL5MHQ	K8RF
UA6IGI	W2/CT1GIF	EU4A	N1IX	EW1BA	KA8SYV
UN7LZ	W6DAO	JA1HQG	N3KK	HB9FMT	KM3T
UT5AB	WW2DX	JA4DHN	SM4OLL	JA1PTJ	KU0A
VE6LB		JA5XAE	SM5CLE	JA9RRH	LA8WG
W1SKU	149	JH1GNU	W4GE	JH1HHC	OK1MP*
W1VT	DL7CX	K5KV	W7ZI	JH4JNG	SM5CBM
W6RLL	HB9HFN	K5SM	W8RLS	J11DCW	SV8ZC
W7AJ	I0JBL	K6NR	WC5M	JR2LJO	W0SD
WB3CQM	IK4FNF	K7WP	WD5T	K2RW	WA8WV
	JL1ARF	N7BT	YO3CD	N8OC	
151	K3TN	OH1JP		NJ3K	138
AA7G	K4YYL	RU0SN	143	OE6VIE	DK8MCT
DK2OY	K5VWW	W1IZL	DL1DUO	SV3FUO	DK8YY
EI9JF	K7HP	W1ZT	DL6EN	W2CG	EI9FBB
F3SG	K8ME		HB9RYZ	W3BW	F6DDR
HB9SLO	K8ROX	145	IT9BLB	W4JVN	IK8EPC
JA2VQF	R8TX	AF4HX	K7CMZ	W4VIC	JA3OOK
JA6BEE	SM6CUK	HI3T	K7CW	W4WT	JF3LOP
JH1NYM	UW7UA	IZ0RVI	N2RJ	W8GNM	JH7RXU
JR1XIS	W0GG	JE6TSP	N2WM	W8HW	K1RO
K2AX	W7HPW	JH4HMG	N5UW	ZS1C	K2RET
K2FW	WB8B	JJ3HGJ	N6PAT		KJ6P

LB5WB	K1ZE	JR7FRW	KC2LSD	N2BJ	N1AC
OZ8X	K4TT	K2CDJ	KH2L	N3KS	N1GC
RW4CY	K4ZRJ	KS4YT	KM3V	N3RR	N9RD
UN7JID	K7FL	KU2A	KM4H	W0YVA	OE8HIK
V51B	K7XB	OE1KM	N3MK	W7QHE	PA3EWP
W1GD	NZ9R	ON4CAS	N4QWZ	W8MET	SK7AX
W2YE	R7LP	RA5BM	N5PHT	W8MK	SP6A
W4YV	RN3RQ	RV4LC	N6RK		SP7ASZ
W7OM	SM3LGO	UQ2PZ	ON4ON	128	W0CP
	SM5CZK	VE3WT	PY5EG	AA4SC	W0RT
137	SP3XR	W0NFL	R0SR	DM2RM	W1OPD
EA1YO	SV5DKL	W2QO	R9MJ	IK2SGB	W3BG
GM3YOR	W1DIG	W5AJ	R9SA	IT9ZZO	W3FOX
IZ2FOS	W1EQ		W8DCH	JA1XCZ	W3MF
JA3APU	W2GD	132	ZS1A	JA2AHH	W8LMG
K2QMF	W4BUW	AA4NC		JA2KSP	XE1KK
K8NS	W4MBD	AB9M	130	JA5FDJ	
RA3CO	W4RFZ	AD6W	DF9ZW	JA9AA	126
RG7G	W6DR	IK3VBB	E73M	JE1LFX	AC9EM
UU1JA	W6JTI	IT9RDG	EI2JD	JH4GJR	DJ8WD
W1ITU	WE4S	K6YUI	G7VJR	K0FF	F8BPN
W5ODD		K9ZM	HK0HEU	K3XA	G4IUF
WB5JID	134	N6HY	IK3XJP	K4JAF	JA7KY
	CT3HF	OZ2RH	JA2FBC	K4SE	JH3CUL
136	HA1RB	SM4BZH	JG1DUZ	K6LPO	JJ1DWT
E72U	IK4DCS	SM6BGG	J14POR	KG7CW	JN1RQV
ER0FEO	JA7LGE	SP6M	K2MYR	KM4NS	K2ZD
HB9IQB	K1TO	VE3CRG	K3NK	N5KM	K4JKB
IK8CNT	K1ZN	W4AXL	K7LFY	OZ1IKY	K4XU
K0TV	K3OX	W4RBO	K8BCK	R9SG	N8NA
K4ZO	KX4TT	W4WM	K9GL	S53X	OE3SGU
K7TM	N9MR*	W5SL	KO8SCA	S55DX	OK3CQD
KR6C	N9RS	W7AH	NA4EA	SM3GQP	PA5TT
NA5DX	OE1TKW	W7CD	NO9E	SV3DCX	VE3CX
OK1DW	OH1ZK	W9FR	OZ2ABI	US8UW	VE7BV
SM5OJH	PY5HOT	WB3D	R3VA	VQ9LA	W8REW
SP2BMX	RG6G	XE2S	R5QA	W2WC	W9ILY
UT3UZ	RX4HW		R9AB	W4IS	WB0O
UW8SM	SM0BYD	131	RU1AO	W6RKC	WB2REM
W2OIB	SP6JIU	DK7YY	S51NM	W8KA	WD4LBR
WB7QXU	UA0ACG	DL9FCY	TA1CM	ZS6UT	YU1EXY
	W4JKC	G3UHU	VE3DO		
135	YU1AM	HS1NGR	W2MPK	127	125
5B4MF		IV3KFB	W9ZT	CT3KN	9A1AD
DJ9ZB	133	JA0AOO		HK1MW	AG1A
F6FXU	9K2NO	JA2TBS	129	JA1DDH	GW3TMP
IK8GYS	EU1U	JH4ADK	HB9AZZ	JA1WLO	HK4SAN
IU0HDC	IK5DNF	JJ1TEA	JA1NWD	JA8RJE	JA4IYL
IZ7EVZ	IZ8DFO	JM1FHL	JA8JO	JA9KRO	JA6VU
JA2KVD	JA6CBG	K1UU	K6XM	JH3AIU	JE1TSD
JA7LMZ	JA7GLB	K5VIP	K8DV	JS2LHI	JE6UWU
JA8BNP	JA9AGN	K6SIK	LB7ZG	K0RW	JF2WXS
JA8JL	JR6FC	K9DR	N0YY	K3TRM	JH1AGU

K1HAP	K3XO	DK1EI	PZ5RA	118	N8AA
K5KG	K4ZIN	DK6CQ	RL3BZ	5T5PA	N8XI
KA6BIM	K5GH	EI2GLB	SP7ITB	AB2E	NY4G
KI4WCQ	K5JC	HB9DHG	SV1IW	DL5OCE	ON5UE
LZ1XL	K7UT	IT9AAI	UR5IKN	JA4FHE	OZ5HP
N2KA	K9CS	JA2HYD	US0YA	J18DGO	SM7BIC
N3EN	KV4T	KD8RQE	W0RX	JN7DOS	SP8HKT
N4JT	N2ED	KG9Z	W2YR	K3WGR	UA6J
ND5S	N4DWK	N0OK	W3OA	K4CNW	UB3A
NW6S	N6MZ	N1JP	W4PRO	K5XM	UR9IDX
OE1AZS	N9JV	N3ND	W6RFL	K7PI	US1CT
RA0BA	N9LQ	N4TL	W7RN	K8LN	W4ZRZ
UU7JM	NA2P	N6HC	WP3R	K8WVA	W6SL
VE3UTT	NA9RB	SV1AHX	ZL4AS	K9GWH	W8ZR
W5DAW	S50B	SV1FKZ		KD6UO	WA2USA
W9CG*	UA3DK	UQ1GWW	119	KG8CW	
WV4TN	UR9QQ	UT4EO	AA3AZ	KV4AA	116
YO2RR	UT3QU	UU2JQ	AA4DD	LZ2HM	AJ4F
	W1AO	VA3AYA	AE3T	N2MM	DL7URH
124	W4NF	W0QQ	AJ4A	N4DJ	EA5BRE
AA7XT	W8NJR	W2GG	DK3GG	N6MB	HA7PF
AB1OC	WT4Q	W3RJW	DL9OBY	PY2PA	HB9EFK
J11DHY	XE1H	W6XI	EW4M	RN3TT	IK0EIE
KD2T		W9XX	G4DJJ	SV9COL	IK2OHG
KD4POJ	122	W9YE	HB9AAQ	TA2RC	IT9TQH
NA2U	BA4RF	WA1PMA	HB9BCI	W1KSZ	IV3HYD
PA0TCA	G3NDC	WY1G	I2TZK	W4DAO	JA1WTI
UA0BA	IU0LFQ	XE1VIC	I4MKN	W4NJ	JE2EHP
VA7CRZ	JA1MRM		IK0ZIO	W5JMW	JH3GCN
VE1DUN	K1BZ	120	JA3AZD	W9FI	K1DC
W2JU	K1ESE	9A5F	JA4XGC	WX3P	K1RI
W2RIJ	K1YT	AA5JF	JE2JMV	YO4AUL	KT1V
W3FM	K2MP	AL7TC	JH6CDI		KV1J
W6CYX	K7ZA	DL2VWR	K3NF	117	NA9Q
WB8K	LA7WCA	FG5FR	K5UZ	9Y4VU	OH8LXT
	LA8PT	HB9BLQ	K7EG	AE0P	OZ1LCG
123	N3NR	IZ0LKV	K8KWT	BH4IGO	PA0JSE
AC4TO	N9AW	IZ5NFD	K9SG	DL1DWT	RV3ID
DL7JRD	NN7X	JA4EPE	N0KV	G3PLP	TZ4AM
F4GTB	OZ3Y	JR3UIC	N9UA	IT9DAA	UA4PCM
G4WFQ	RD4A	JR6LLN	NT2A	JA1HQT	W1ENE
G5LP	SP9WZS	K2BA	NY7T	JA4FM	W1WEF
HB0WR	UU4JMG	K2HK	OH5NG	JA7GYP	W7GG
IK2CHZ	VE6AX	K3QIA	OK1DT	JA7IC	W7OEV
JA0CRG	VK4CAG	K6FW	R6FFB	JM3GXU	W8LRO
JA1SJV	W2TB	KA8ZPE	SV1ACK	JR2UBS	WQ5L
JA3MHA	WA3I	N4BAF	VE3YF	K2BB	
JA6WJL	WA7BNG	N4LR	W4HZ	K6PJ	115
J14WAO		N4TB	W8FIB	K8OOK	C6AGU
JK1EXO	121	N4UFP	WC2K	K8QM	CU2CE
JR1EBE	AA6RR	N8PW	XE1RCS	K9FN	DL9GOA
K2PK	AA8CH	OE3EVA		N2JJ	G4XEE
K3FRK	DF1DB	OZ2A		N4IR	G8BCG

G8DX	K5CD	W6BK	W4VHF	WB4TDH	109
HA5UK	K5RJ	W8FAX	W5VX	WB9EEE	DF1KG
HK3PJ	KB8U	W9DX	W6TC	YL3DQ	EA3GHZ
IW0HEX	KZ4V	W9VNE	W8GEX	YO6HOY	EU4T
IZ7JVR	N1QY	WA4DOU	W8HMK		F8EZE
JA2KNW	N3MN	WB2HJV	W9SE	110	G3SVD
JA3NHL	N4IQ	WB2UFF	WA8OLN	BA4MY	IW0HQE
JA5WIZ	NU8Z	WS4C	WT9U	DL1VDL	JA2CXF
JG3LGD	UA3FT	XE1RBV	ZP6CW	EA5BYP	K2ONP
JH1RFM	W0VX	ZL1BYZ		F5BAR	K4RDU
K0GD	W3MR		111	G3LNS	K5FZ
K0SD	W4TUN	112	9K2OD	G8AJM	K5KA
K4CMS	WA1FCN	A92IO	AA4U	HC1BI	K5KPE
K4GHS	WA4CEM	DJ1RL	AF4OX	HI8R	K6MW
K4GK	WA8MCD	DK5RL	CU3AN	I2BBJ	KE1F
K8YTO	WA9YYY	DL5CL	DG7RO	IK5RUN	N1BZ
KZ5DX	WN9O	EA1JO	DK2WH	IK8UHA	N2WLG
LY4T	XE3ARV	EI8IU	DK6ED	IZ0CKJ	N7TY
N0IRM		EW1DO	DL1HRN	J68HZ	N8NN
N4OA	113	G3XGC	EV1R	JA7EPO	ND4V
N5BO	9A1A	HB9CEX	F6ECI	JE2UFF	NN4RR
N8KOL	DJ5DT	HB9CRV	G4DBN	JH1VHU	NU4I
PA3AXU	DJ9RR	HB9G	HL3GOB	K2BLA	NX7U
RZ6MJ	DL8CM	IK2ANI	JA1AUD	K3JRR	PY5CC
UA1ANA	DL8DYL	IU8FRE	JA1FGB	K3PH	RW4UU
UA1CGS	G4AFJ	IZ4DIW	JA1NCZ	K4WW	RW9QA
UA6XT	JA0GCI	JA1SXR	JE8TGI	K6MI	RX3AGD
UN6T	JA4ITW	JA4BXL	K0FLY	K6VKO	TG9NX
W4UCK	JH1ORA	JA7BXS	K5WAF	KB4MRX	UB5ZAL
W5VY	K0TPP	JF2WGN	K7ORK	KC2STA	UT7KF
W9HBH	K8SL	JR7TEQ	K9AJ	N2CG	VU2CPL
YL2CZ	KA4RRU	K0JPL	KM1R	N3HBX	W5WP
	KH6DX	K1EDG	KP4AA	N3IQ	WB5TUF
114	KI0G	K1EO	KZ0X	N3JB	WN0L
AB4GE	KT1J	K1KO	LA0CX	N4KE	YV3AGT
BA4DW	N6PE	K4UAS	N4WJ	NC6K	
BA7IO	N7KO	K8CC	N7BD	NK7C	108
CT3FN	N9ISN	KB2FCV	N9HF	NY4I	AI2Q
CU3AK	NA3F	KI4DLS	NA1DX	RD9M	AL7R
DL6NB	NG0G	KM1C	UR6QA	SM5BHW	DL6CNG
F6CWA	NI5F	LA8HGA	VE6KC	SV1VS	ER1LW
G3SDL	NK5B	N5ZC	VE7CT	UA3O	G3VAO
HP3TA	NZ3M	N6MA	VE7UF	US7MM	HB9BAT
I5OYY	R7NA	RU4SU	W0VHF	W0UY	HB9FAN
IK7YZG	RA4UN	SM3DMP	W1FO	W3XY	IK0PRG
JA1OVD	RZ3AUL	UA1ACG	W4HOG	W4DC	IZ0BTV
JA4KDT	SM5ARL	UA1CEI	W4OX	W4NE	IZ2EWR
JH6WMJ	SP3EPG	UT6UD	W5AQ	W5ZPA	JA2MOG
K1RV	SV1JFV	VE7XF	W7VS	W6KK	JJ2PIK
K2DC	SV2AVP	W1HEO	W8MIL	WL7E	JK1MZT
K2HAT	UN7TW	W2CVW	W9RB	XE1FAS	K1EP
K3MD	VE3KI	W2SKI	WA2BOT	YU7AU	K1XM
K3OSX	W2GW	W3UL	WA2MUA	ZL3NW	K2CJ

K2KQ	JA6OXT	HA8DZ	105	VE1PZ	N3TR
K2MK	JA8JTH	IW3GJF	DF2PI	VR2MY	N4GU
K4SAF	JH9DRL	JA1VLK	DF8AA	VY2ZM	N4TTE
K4WY	JR1BAS	JA2MNB	DJ3XD	W1LE	N6PF
K4YJ	K0MD	JE6IGP	DJ6KH	W1LY	N6WM
K6UT	K1TZQ	JG3HBO	DL4ZAB	W1MRH	N8MZ
K8OM	K3SW	JG5RVQ	DL6XK	W4OWY	N9DR
KM8AM	K3YBN	JH2KKW	DO1CTL	W6FF	N9PGG
KN4JX	K4MS	JH6PFY	ES1GO	WQ5W	NJ9C
LU2DKT	K8LBT	JJ0NCC	G3YUV	YU1NR	NN3Q
LZ3YY	K8ZR	JR0EQQ	HA8FW		OH4UI
N4MEC	KB9DAK	K0DEW	JA1BWA	104	PA0GMM
N6RFM	KE2R	K1PX	JA1TAA	9M2AX	RA1QX
N9SF	KZ1W	K4DSE	JA4EVN	AD1C	RU3UR
N9TF	N2RR	K5AM	JA6VA	AG4Q	RZ6DX
NU4Y	N3DAP	K5ZQ	JA7BME	AH0U	RZ6LB
PA0ZH	N4RF	K8JJC	JA8RRF	CP8HD	SM5CCE
R5FY	N6EE	KD9HL	JA9APM	CX3CE	SM7CQY
R7LA	N8AGU	KK8X	JF1RYU	DK3BK	SO5AS
RX6DX	NA5Q	KK9H	JF2VAX	DL4FAP	UA9FGJ
S57J	OE1CP	KQ3F	JO4CFV	DL7UPN	US5CAO
SM6AOU	OK2BUZ	N0JZ	K1DJ	E73D	UT4EK
UX7UN	OK3CQR	N2CW	K2XF	EA8ZS	UT7EC
UZ6LWZ	R0FA	N2SQW	K5AV	EI9E	UX4UM
W2UB	RN4AA	N3XM	K6DJ	F6AJA	UY0MM
W3NRJ	RV6ARZ	N8AID	K7OX	F8GB	VE3VHB
W4ZYT	SP3BQD	NA5Z	K7PO	G3BRD	W0YBS
W7ACD	SP6AXW	NI5M	K9RO	HB9CIP	W1QA
WA2ALY	US5CB	NS3L	KI5T	HK3O	W3DRY
WA8MOA	VE3OI	OE5CSP	KT2E	IK0DWN	W3TMZ
WB8BZK	VK3NX	OH2OT	KX2A	JA1JAT	W5BK
WC1M	W3KB	OK1AYU	LZ1JZ	JA1SDV	W5CWQ
WC6DX	W4MAY	OK2BVG	N2DPF	JA2FGL	W5GJ
WD9EQU	W6TDX	S57AL	N4JI	JF1EGO	W5ZO
WW1WW	W8IW	UR3CRO	N4NW	JF6WTY	W6PH
ZS2DL	W8VK	UT7UU	N4PL	JK1BSM	W7DR
	W9CPV	UU5WW	N4SC	JO1WXO	WA0I
107	WA0RVK	V73AZ	N4VN	K0WK	WA9ETW
4Z5LA	WB6CJT	VQ9SS	N6NU	K1BG	YC0LOW
DJ8ES	WB8ART	W1CWU	N7DR	K3FM	YO5ODE
DK3FB	WS1L	W2EQ	ND3L	K4KEW	
DL1QQ	XE2YWH	W2LE	ON7PQ	K4MF	103
DL2CHN	YL1XZ	W2NO	OZ4AAL	K4VIG	AG1I
DL5XU	ZL3RJ	W3ICM	PF7M	K5HK	AI3Q
DO4DXA		W4IR	PJ2/K8ND	K6UM	DJ1MM
EA5AT	106	W5JAY	PY2DS	K7TJR	DJ3GZ
EA7QW	AA4FL	W5KI	R6YY	K9EA	DJ7PI
FG8OJ	AE2U	W8OP	RA6AF	KA2BZS	DL2HX
G4AKY	DJ6OZ	WA4MYO	RD4WM	KH6KG/W5	DL8YRM
G4RGK	DL2NOM	WA6TLA	SP5JXK	KI0KB	DM5TI
I5IHE	DL3JSW	YL2GN	UA6LCN	KW0A	DS3HWS
IT9XTP	DL6JZ	YU3EF	UR1RWX	LZ2XF	EA7SG
JA5EY	EA3CCN		UR2RGN	N3ER	EU6MM

EW3LB	W0UVC	PA7TWO	HB9NL	RA4P	DU7ET
G3BDQ	W1CTN	PV8ABC	IV3GOW	RA4SD	EA2AAZ
G3OIL	W4AVY	PY2DO	IV3KCB	RB7GG	EA3ALD
G4AAW	W4MZ	R2AB	JA1VVX	RK9F	EA8AXT
G4PUQ	W5THT	R3IS	JA2VMU	RY6M	EC5A
G4VGO	W5VU	RU3UN	JA6TMU	SM2DMU	EI3ISB
I0OSI	W6SZN	S59DJK	JA7SFD	SM7NDX	ES5NC
JA2GQO	YO7APA	SM6WET	JF1RPZ	SP7JLH	FM5GU
JA2OLJ		SP5MXZ	JH3HGH	SV1PL	G0VXE
JA3FHL	102	T77V	JH3PRR	UA0FDX	G4CGG
JA8EJO	A6/RV6LNA	UA1AIR	JH7BKN	UG6GAW	GM3ZSP
JE1SYN	CT4BD	UA1CKC	JI3KDH	UR7CQ	I2VGW
JH1DGQ	DK3QM	UA6HOF	K0LW	UT1CC	IK0HFO
JM2RUV	DL3DXX	UA9MR	K1YR	UT4IS	IK4MSV
K0EOO	DL3NCR	UA9UCO	K2BX	UT7HA	IK5ZUK
K2UVV	DL4CW	UW7CN	K2TER	VE2OJ	IS0/YO3RA
K4LQ	DL4KUG	VE2FYR	K3SEW	VE3XB	IT9CVO
K5JUC	DL5RDI	W0JMP	K4NNX	VK2GR	IW0BYL
K7BTW	EA1CP	W1AW	K5DNL	W1FC	JA1BRK
K8CCV	EA8AKN	W1PV	K6AAW	W1GF	JA1CPU
K9MUG	EI4DQ	W2LW	K6XJ	W2SF	JA1ILA
K9XJ	EI6GF	W2TX	K7AR	W3WH	JA4FSH
KE1IU	ES5RW	W3EKT	K7IA	W4BUE	JA5DQH
KJ4R	F6BWO	W4ALF	K8BN	W4PM	JA9CGW
KJ7WY	FM5WD	W5TO	K9JU	W5RF	JE1PHH
KM9E	HB9AHL	W7IUV	K9PG	W7AV	JF3DRI
LX1DA	I8LWL	WA0IDK	KC4PX	W7CB	JS6TWW
N0RU	IT9SFT	WA1S	KD3UY	W8GB	K0LB
N1HOQ	IZ4MJP	WD8DSB	KE1VT	W9MAF	K0XM
N9BBQ	JA0HXV	WS4Y	KE4S	W9ZCL	K1NA
NU1T	JA8OW	WW5G	KF7NN	WA3EKL	K1NZ
OH3GD	K0YN	YO2CMI	KN6J	WB3HLH	K2CBI
OK1DQT	K1PTF	YO2IS	KQ1F	WC4H	K2CYE
OK2BQU	K2LP		KS4XQ	WK9U	K3TZV
OK3BRK	K2TK	101	LA2GV	WR2G	K4FT
OZ7JZ	K3KG	AA2VG	LZ1XZ	WV9L	K4KSY
R9GM	K4AQQ	AA3LX	N0STL	YO2OXD	K4QS
RA0FA	K4KAY	AA4NU	N2AJ	YO6BHN	K4UQC
RA4HT	K5ZO	AC2AC	N5AQ	YV4DYJ	K7VIC
RK3QY	K7BHM	AC5O	N8AG		K8BZ
RU3OW	K7UA	CT1JGA	N9JCS	100	K8CR
SM3CBR	K8BHZ	D44BC	NE1F	9M6YBG	K8CS
SM6EHY	KJ6NZ	DH2FW	NX2X	A41ZZ	K8LE
SM7BHH	KN4KL	DK9WI	OA4TT	AA4AK	K9NZ
UA3PFN	KW4BY	DL1KS	OE3WQB	AA4UC	KA9UVY
US2WU	KY6R	DL3ANK	OH3TY	AB4VV	KB0EL
UT2AB	LA3ANA	DL5JS	OK1PGF	AC4VM	KC0V
VA2ZO	LA6UL	DM3ML	OK2BOB	AI2S	KC4D
VA3IC	N5RZ	EA1WX	OK3EY	DJ6OI	KC5LT
VE3EDY	OH2EA	EU1TT	OK4MM	DK8MM	KD8BZY
VE3MFA	OK1DTN	G3ZFC	ON4LG	DL1TPY	KP4N
VE3VV	OK1JDX	G4FJK	PA4WM	DL1TRK	KQ5M
W0QC	OK3CSQ	GM3WTA	RA3AH	DL9GTB	LA8W

LU5OM	UR4LRG
LU5YF	UR8IDX
MM0SJH	VE1RGB
N0AH	VE3OAT
N0ATQ	VE7JKZ
N1KI	VP2VA
N1MD	VR2PX
N2SG	W0GYH
N2XQM	W0MU
N3AF	W1AN
N4CRI	W1YRC
N4ZR	W2CCC
N7DED	W3BBO
N7TK	W4HHN
N8IL	W4OEP
N8NB	W4OV
N8OQ	W6WA
N9ADG	W7DT
NA6O	W7JET
NB3R	W8CNL
NG7A	W8FN
NJ3I	W8GDQ
NN4SS	WB4SON
OE5JDL	WU2M
OK1DXD	YB1TJ
OK2PAZ	YL2SM
ON4ANN	YO9FLD
ON7EH	ZP9MCE
ON7GB	
ON9CC	
OZ1ZD	
PA0INA	
PA7RA	
R3PJN	
R9JX	
RA3SD	
RA4LW	
RA6XB	
RC2A	
RN1A	
RT5A	
RU3GF	
S53MJ	
S59SV	
SM0CXU	
SV1VJ	
SV2DSJ	
TI5CDA	
UA3AKI	
UA4PAY	
UA6CEY	
UN6P	
UR4CW	