

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 07 Jul 2022, 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* R4GM	316 W2VO W3LPL	W3GH*	302 DL4MCF JA4LKB K1UO	OZ3PZ SM3EVR SM5CEU
340 K1ZM	324 K2TQC OH2BO	315 OH3SR S50U W1JR	308 IV3PRK K8GG KJ9I OG2M SM6CVX W5IZ	K4ZW N4RJ UT5UGR YU1FW	297 DK5PR JA1BK OM2XW SP3EPK UX1UA W0CD
338 W4ZV	323 K9UWA SP5EWY W1NG	314 IK4GME IK4WMA K5RK NX4D OK3GU OZ1LO PE5T RW2A UA4CR	307 4X4DK DJ7MI IK4MGP K4SV OH5VT RZ3AM VE3EJ	301 DJ0MDR DL9KR N1RJ N3XX S54E	296 DJ2BW F5NTV G4PWA N4CC OE6IMD ON5NT W1JZ
337 EA8AK W4DR	322 UX0UN	313 GM3POI OE3GCU OZ7YY	306 I4EWH K4CIA SM0AJU WT3Q	300 F6BKI G3KMA GM0GAV GM3YTS I2ZFD NN4T PA3FQA RC3FL VA3EF	295 OE1WEU UA6A W0FLS
334 N4WW OH2BU VE1ZZ*	321 K5NA S50A W3UR	311 DJ6RX G3PQA N1DG RA7A	305 JA7NI OH1MA RW3PZ*	299 CT1EEB N1BUG SM3GSK W7UT	294 JH2FXK K3UA RJ3AA SV8JE
333 R7LV	320 W8UVZ	310 SM5BFJ SP2FAX	304 N4IS N4JJ* UT3UA		293 DF2UU G0JHC KV4FZ* LA5HE
332 UR0MC	319 K4PI N0XA SM4CAN WB9Z	309 DF3CB DJ9KG I4AVG	303 F5LGE K9QVB	298 9A2AJ IK2DFZ JA4DND K4TEA LZ2JE	
330 LZ2DF OH1XX UT7QF	318 K8MFO				
329 AA1K HA0DU UA4HBW	317 EY8MM I4EAT* W9ZR				
328 K3UL K5UR UA4CC					

292 OZ1BTE R7FK* RA3DX SV1AOZ W3YX W8TOP	WK3N	278 DK0EE F6BEE HB9BGV JH4IFF JR2KDN K8KS K9CT	272 9A2EU DL1DUL IK4CIE KF2O	265 CT1EKY NR1R	RN3CT VE3QAA
291 JA4LXY KD9SV R7NW SV1FJA	285 9A7V K3SX N3SL	277 AA4MM DJ9VA HB9BIN IK5BAF JA5EXW K4WM SM6CNN	271 EU7A G4GED KG4W OZ1CTK W6UB	264 SM5KNV UX1AA	257 K1GUN KX4R W9YSX
290 DL1AMQ JH4UYB N0TB UA3AKO UA3LAR	284 IK1GPG US4EX	276 DK5WL G3LZQ IK4DRY JA3FYC K5DU N8RR N9IW OK1AWZ	270 OE5KE US5WE	263 AA4V DL2OE IK6DLK K6ND K9OW W2SM W3AP	256 9A5CY G0DQS I1FQH K1QX K5VRX PA7MM
289 DF3GY G4BWP JA3ONB RX4HZ SM6CMU SP3E	283 DJ2YA I5NPH N8DX NA0Y	275 9A1CCY F6AOJ SP3DV SP5CJQ UW2ZM W2OKM*	269 F5NBU HB9AMO RV3LO SP6CIK SP9DWT W1ZC	262 AA6YQ G4OBK K4UEE KR9U UX4UA* W1GL W1YY YO5BRZ	255 IK2YCW K4QL N2MF SP9JZU W5OZI
288 PA3GCV RA3CQ RY9C SL0ZG SM3NRY SM5AQD UA4LY W0JX	282 DL1YD G3XTT I0WDX IZ0AEG N2LT N4KG* SM6CTQ UY5ZZ W5ZN	274 CT1APE G3TXF K2UO K4IQJ OH3BU	268 DL5DSM DL7VEE EA6SX G3WPH NJ6P RA3XDX RK4FD SM5DJZ* VE2TZT W1MK YO3APJ	261 AA1V DL9YX K2EK K5KC KD5M N6SS RW0LT	254 EI7BA N0AT W3DF
287 DL1RWN N2QT S58T SP7VC UT7UJ VA3DX W4PK	281 DF2PY JA2PJC R3OK S59Z SP3IBS SV8CS UT7UW W0BV W4TO	273 JR7VHZ K0KX K1ZZ K2CL K5BG RA3DA SP6AEG UA3DPM	267 ON7TK RZ3DX SM6CCO UR5WA	260 AA7A K4DY	253 IK5HHA K5ESW K8PT N3NT RU3FM S58Q SP9FKQ* SV8BHN UA1OMS W0YG
286 JA2JPA PA0WRS W8AV WD5COV	280 SM4DHF SP6HEQ UA3AB W2YC	272 I2AOX IK8HJC JA5AUC MD0CCE R3LA W8TE W8XD	259 DF4PL F6GCP IZ1ANU K1LT R9FM	258 EA5BM K4XP K5XI K7ZV KW9A	252 EA1DR JA5BZL K8FL LU8DPM N8TR W3UM
	279 EA6NB G4CCZ K1CP K4SO N2TK NO3M UA6MF				251 DJ7RD DL9RT JH0BBE VK4MA

W1TSP	244	238	W7AO	K1AR	HA7TM
W5UN	5B4AGN	DL8WN	WA7NS	NT0V*	N6AR
W7LR	DK6WL	IV3YYK	YO7LCB	OH2BEN	R5AJ
WA4FFW	F2JD	K0KT			RT6T
	JA2VPO	K1FZ	232	227	VE6WZ
250		K1HTV	G8VR	ES1RA	
HB9RG	243	UA3TT	JA0CRI	IK0HBN	222
JA8ISU	DK2JX	UX0FF	K2AZ	K1FK	AB0X
JH1GZE	DK3DG		K2FF	K3NW	DF6PB
OZ8BZ	I1EIS	237	K4XL	N2WK	JR6EZE
	ON4ATW	DL7MAE	KF0QR	OZ4O	K3SV
249	R5DT	IK0XBX	NI6T	WB6RSE	K6EID
AI9L	W9XY	K1VW*	UA3AP		N5AW
NQ1K		OM4EX	YO9HP	226	N6JV
SP5DIR	242	W4YO*		CX6VM	N8PR
SP5DRH	AG9S		231	DL7HU	NV9L
	KG7H	236	4X4NJ	IK0MHR	SM0CCM
248	N2NL	IV3ODE	HA9RE	JA1UQP	W7KW
K5RX	W9RPM	JA0DAI	IK0YUT	JF2KOZ	W9BF
K9NW	WX4G	K1JO	JF8QNF	JH1HGC	
KY7M		OK2ZI	KA9CFD	K5EK	221
LA3MHA	241	SP8AJK	N7NG	ON4AOI	EA1N
PY2RO	JA1HGY	UR5MID	NI0G	UT5JAJ	I3BUI
SM3VAC	JA3EMU	W3KX	ON4ACG		IZ8FFA
SP1S	K5ZK		S57A	225	K4HB
T77C	N4XM	235	SV1RK	A45XR	N6VR
W9NGA	N5TY	F6BLP		E72A	N9BX
	N7RT	IK0XEZ	230	FK8CP	W1ZK
247	OK1DWJ	JR3GWZ	AB4I	K1MM	W6JRY
9A4T	RL9F	K3SWZ	JA1CMD	K5AB	WS6X
K3WW	SP5GRM	KC7V	JA5MHD	K9FD/KH6	ZS4TX
K6XT	VE1YX	N6DX	K2UU	N4CH	
NO2R	VE3NH	R7DX	K9NR	OE5NNN	220
R7IA		VO1HP	N8JV	RA3QK	AB3CV
UT9FJ	240		SM3NXS	RV1CC	AG8B
	K0JUH	234	W4GF	RW3XZ	HB9LCW
246	K1ZG	JA7QVI	W4VQ	VA5DX	HL5IVL
DJ2TI	K9OT	JF2MBF	W9IXX		JA1SYY
G3ZSS	LA2XPA	K4UTE		224	JH4ADV
JQ3DUE	ON4IQ	K9RX	229	JA6BZI	K8FH
N6TR	PA4VHF	PY1BVY	CT1FJK	JA8FKO	KA1R
W2TQC	TF4M	VE7IG*	DJ4AX	K9FD	KD0Q
W5XZ			JA8EAT	N8BM	SP8NR
	239	233	Ji1BEX	S51DI	VE3EXY
245	EA4KD	AA1QD	K9ZO	S52F	
DL4CF	JR3IIR	IZ4BEZ	RA0FF	SP5INQ	219
JA1GV	KH6AT	K0CS	RO7T	US0SY	IK3VUU
JG3QZN	LY3UM	K1DG	SV8GFW	VK6VZ	JA2FJP
K0IEA	N5KD	KA7T		W2RQ	K6TA
N5DG	NO8D	N4II	228	W3LL	K8ZTT
N9US	SV1ELF	SK3PY	AF9H		N1LN
RY7G		UA4HAU	AI0O	223	OE8RT
WB3AVN		VE3XN	JA0FSB	AC4G	SP4K

SP7GAQ WA2UUK	213 DF2IS DJ8NK DL5WW EI3IO JF6DSZ K3JGJ NA2M RU4SO W0LYI W0UO W1FJ W2WG W3YY YU3AA	W6PBI* W7KNT WA5VGI	N0AV N7FU N9AU UN5J US6EX WD8PKF	JA1GTF JH2RMU JH7PFD K1GE K4JJW K5MC K8ZH K9MMS N4PQX N9LB NN4X RA3WDK RW4NN RW7M W3GG WA2HZO	K8PO KP2A RA9CMO RZ4FO W2FCR W2IRT
218 DJ4PI DK0PM EA6VQ IK1YDB IK6FWJ IV3JVJ JA8CDT K0EU K4MWB K5UO ON4GG UT4MF W0VTT W5PJR	212 DL9GFB JA6LCJ JA9PPC K1ST KE9I KG6I N1ZZ N4MM SV2JAO VO1NA YV1DIG	208 AD5A JF3KON JG1ULJ K2FU N5ORT RU3ZX SM5JE* W6PJ WS9V	203 DL7BA I4KDJ JA2XYO K4XO K8AC KK2I N4NX OM3DX PA0A R6AF W8GC	K9MMS N4PQX N9LB NN4X RA3WDK RW4NN RW7M W3GG WA2HZO	195 4Z4DX G3ZEM HB9CXZ JA1EOD JA5AQC K7SO K9RT KF8UN N1SV N5JR W9OP
217 IW1ARB JA2FBY K5PC UA3AGW	211 JA4DEN K4MQG NX0I RU3SD SM5CZQ VA2WA W6YI	207 DK2NG I4LCK K1LPS K8EUR WB9CIF	202 DL1MGB DL2KQ EA1RT JA3CSZ JA7MSQ JH1IFS JH3VNC K2NV LY1G N7KA OK1DOT R9TO US0KW VE3BW W2HUV ZL3IX	199 IK7NXM JA2DPC JE1PNX JI2KXK K5RT K6GXO N4DW N8DJX W0DD W0MHK	194 K4KDX K9JF KB9LIE KC9ARR LA7JO W2LO
216 K8SIX N5UL OE1ZL RZ0AF SP3CGK UR5EDX UT7UV VE3LYC W6XA	211 JA4DEN K4MQG NX0I RU3SD SM5CZQ VA2WA W6YI	206 AA9A AJ6T K2VV K4NA K5AQ KC6AWX* KG9N SM6BZV W1TC	205 HA1RW JA3AAW K1DT PY2BW RA1QD W1ECT W8UN WB8ZRL	198 DL1ROJ G3UJE UA0SR W1TO W7DO W8HB	193 DL5ZB DL6ZXG EA6ET HA5BSW HB9DDO K3JT K3LR N4QS N9EN ND0N PA0LOU RN1ON UA9FAR W0RI* W9MU
215 IZ1LBG N7JW RU3QR W0GJ W2LK	210 I8SAT IK4DRR JJ2LPV K0MN* K3WA W7JW	204 DJ5AV HB9DDZ JA2WYN JA3PIS JH0INP JH2TPI JJ3PRT KK4SI LX2A	201 DL1EJA F6DAY JA2IVK K3HP K5EJ MM0EAX PY2XB UY1HY W5TCX W18A	197 G3SNN IZ8VYU JH2UVL K3KO* N5ZM OE4PWW OE5FIN ON4CD RZ6FA UA0SC W0LS W9EWZ	192 AA5AM AD8P* JA4PXC K3FN K4FJ K5XX K9EU
214 HL3IUA JA2JW K1AM* OE2LCM OK1DX RN7G W4NL	209 DL5CF JA2NDQ ON6YH VE1DX W0AIH* W0ZR		200 DJ5FI DL9DRA	196 AA4HP	

LA5YJ	G4BUE	ON6SAS	K2EP	174	K9NU
N4DB	JO7WXN	OZ1AXG	K2UR	CT3MD	K9YC
RN3QN	K0SR	W2FP	LB8DC	CU2DX	LA7AFA
SM2OAN	K1GG	W8NW	N5LZ	JA2XW	N4OGW
W4FC	KN5O	WA3C	NE0U	JF7DZA	N9RC
W8LGJ	N2NS		NE1B	JK1OPL	W8UV
	OK1CZ	182	SM7DLK	JR6PGB	WB7B
191	SM0NJO	EA3JL	SV1JG	K2PLF*	
K8FC	SV8CKM	IK0FVC	UT2UB	K3AJ	170
K9LA	W7AWA	JA1SHE	W1YM	K4TR	DJ6TK
RK2FWA		JA8DNV		K8RRT	HA5WA
W3UA	186	K5KLA	177	OE1WHC	I1JQJ
WA2VYA	9A8A	LA7GIA	9H1SP	RN7F	JA2BDR
	I5KKW	UR3EO	AE5E	UA3LNM	JA2ZL
190	K7LAY	UT5UT	CT1FMX	W8VVG	JA6JPS
JA1DUH	KB1EFS	W4UM	JE1BMJ	WT8C	JM1GYQ
JA1MCU	W1NT	WN6W	K7BG		K1NTR
JA2JNA			K7GM	173	K6FG
JA7JWF	185	181	KB0EO	5B4ALJ	KB8VAO
K2TE	AB6QM	AB4IQ	NK1K	K4WS	N0RN
K9KU	EA6BF	JF1PUW	W1RM	KA1J	N7IR
KF7PG	G3KWK	K8NVR	W5LT	N5FG	N7RO
N5GH	K5ZD	UR5FEO	W7FI	N5OK	SP3GTS
SP2LNW	N4TJ	VE3OSZ	WE9R	VE3FF	SV3KH
VE7VV	N5UR	YO2DFA		W2OR	US8UA
	OE2BZL		176	W3YQ	W9EVI
189	RM0F	180	DJ9ON	W7MEM	
9A2F	SV1DPI	DM2DXA	EU1AB	XE2X	169
EA8PP	UA9CBO	IF9ZWA	I6FLD		DM3VL
FM5CD	W0EWM*	K6SSS	JA0DET	172	F6EXV
K4ODL		N4AH	JA5IU	G3NKC	HA9PP
KM1D	184	ON5FP	JA6BJV	IT9ELD	HK3W
SP7HOV	DK2LO		JA8KSF	JA0EOK	JG3IWL
UA7T	IK2QPR	179	JE2URF	JA0GJJ	JR1IZM
W0FS	IZ8XQC	DL9MRF	K8MN	JA3FGJ	K1LI
W5DM	JA9FPI	K0BJ	RA3S	K0DEQ	K1NU
	JA9NFO	K3PA	W4BP	K4CN	N1RR
188	JF1NZW	K8WK	W4GD	K5GKC	N4XX
9A2NA	JF4VZT	K9US	W6NWS	KA9FOX	N7US
JA1ANR	JH1QAX	LA4GHA	W7BEM	KJ0M	UY5AA
JA1KQX	K4HGX	LA9AJA		OK1DWC	W9OO
K9YY	K6SRZ	OK1MG	175	W4FQT	WA3AFS
LA5IIA	KB4ET	S57UN	EA5RM		
UA0CA	N8LJ	SM4DDE	JA1CHN	171	168
W6SR	S57AC	SV3FUP	JA1XEC	DK3WW	G3MXJ
W8JV		VE3DZ	JS3CTQ	DL6KR	IK2EGL
WA6YEE	183	W2YJ	K0JGH	G0EHO	JA0VSH
WA7NB	DK1FW	W8TN	K4DLI	IZ5MOQ	JE7JDL
WF4U	F4BKV		SM5FUG	JA6HUG	K5QY
	IT9INO	178	SM6DHU	JR1TNE	K8RYU
187	K8VC	AA1ON	SM7GIB	K2FL*	KR4F
AG4W	KV7K	JA3RAR		K2KA	N8BJQ
AJ1H	LA3WAA	JA4MRL		K4XR	SP5GH

W4SVO	W5BN	161	JH6QFJ	IK0FUX	W2RS*
W6VX	W8KEN	DK2GZ	J11FXS	K4WA	W6RLL
WA5YNB		DL6RAI	JR1GJP	K9GA	W7AJ
	164	I2ZGC	K0BBC	NW7E	WB3CQM
167	CT1EAV	JA1DOF	K5TT	W2XL	WX0V
DK5AD	G0BLB	JH2SON	LB2TB	W3GQ	
G0OIL	HA7UW	JH4CPC	NR4M	WP4U	151
IK4ADE	HB9BZA	K5GO	RU6M	ZS6EZ	AJ9C
K4XD	IK3SWB	K7NN	SM4EMO		DK2OY
K6KO	JA7ZP	K8ND	W1OX		HB9FMN
K8NK	JA9LJS	N4XU		154	HL2CFY
N0IJ	JN7FAH	OH6RA		3V8SF	JA6BEE
RA1AOB	K9MBQ	RA3DNC	157	EU1KY	K2FW
RN9N	KL0S	W8WEJ	AA4H	GM3PPE	N5JB
S51EC	N7XR	WC5N	JA0UUA	JA1RTX	OH2IS
VE6WQ	SV1LK	WW3S	JA1GHH	JA8NFV	OK1ATP
W1YW	W4NS	YU2TW	JA4FKX	K0KVR	RD3A
W8HC		ZS5LB*	JA9NLE	K1USA	RU3A
W8OI	163		JE2LPC	K2LS	S54A
WA4LOX	DF2GH	160	JH7IAJ	NY0V	SP7AWG
	GU4YOX	DL1DA	J11NJC	PA7F	SV9AHZ
	IK0PEA	IW2FND	LY5A	W1NA	W1SKU
166	IW0SAF	JA2EPW	NE9Z	W2XI	W7RH
4Z1UF	K0TT	JA6VQA	RU4UR	W5DNT	WA1Z
CT1IUA	K1NJ	JE2OVG	SM3PHM		WB8BPU
DJ4SO	K8TL	JF2UPM	SV8ZS	153	WS7L
IV3TDM	N4QQ	JL1SAM	W2TA	DL3ZA	
IZ8FWN	N5WA	JR7MAZ	W5GZ	EA5BY	150
JA1ADT	N9FN	K3MSB	W7TVF*	G3TJW	AB9V
JA1FNA	PA3C	LB6KC	WD8JJA	JF1IRW	F3SG
K3KY	RA3ZH	N3BNA		JF2XGF	IV3RAV
K4JLD	W0DJC	RL3FA	156	K8VfV	JA2NQG
K4PB	W7AL	RU6L	EA3WD	N5TW	JH1RFR
LA5LJA	YL2TW	UA0FZ	F6HDH	N8II	JR7BDQ
N3OC	ZS1LS	UX5UO	IZ4DPV	PE1L	K7LV
RM3DA		W1BR	JA3ENN	SM6CLU	SP5CCC
SP1MGM	162	W5XC	JA9APS	UT5UY	K8AJS
W1RR	4O3A		JE2LUN	WJ4T*	KU4XO
W8ILC	4Z5CX	159	JO7HAM	YS1RR	N3QE
WA0MHJ	9A4W	4Z5MU	K8YSE		N9MB
WA8TXT	CT1GFK	AD5Q	KS1J	152	OE8SPW
	F3AT	JF1WPB	N4GN	DJ9HX	OZ3SK
165	IK4PLW	K4RO	RW3RN	DM5EE	UA6YW
AA9D	JA6GIJ	W6BJH	TF3SG	EC3A	W6DAO
DL7UCX	JA7MOL	W7SX	UA3SAQ	JT1CO	W7CT
JA1PPW	K1KI	WD5BJT	VA3LX	K7SP	
JA2LCP	N8MR	WX0B	W1YIF	KS3F	149
JA9TWN	UR4CWQ		W4QN	N4TV	DL7CX
K1BD	VE3CFK	158	W4TV	N9OY	EI6FR
K4ZYU	W0HT	9A2JK	W9RN	S55ZZ	IK4FNF
K5JZ	W0TT	DJ4PT		UA6IGI	JL1ARF
K6ZZ	W1LW	DL1FKA	155	UT5AB	K4YYL
KK4CB	W7YAAQ	HB9DHK	DL1RK	VE6LB	K8ME
SM4CTT			G3TQZ		KI5BLU

N4HB	WS5W	WA2BCK	ON7DR	137	K8ROX
NX8Y		WB8ZRV	VE6SV	DL1DUO	KK1W
SM6CUK	145	WD9DZV	W0SEI	GM3YOR	N4PY
UW7UA	JJ3HGJ		W4VIC	HB9SLO	NZ9R
W0GG	K1OA	142	W7IV	JA3APU	RC9F
W1VT	K3TN	DL5KUA	W8LWU	JE6TSP	RN3RQ
WB8B	K4OY	EA7TV	YL2MU	K2QMF	SM5CZK
WD5K	K5KV	G4FTC		K8NS	W1DIG
YO3DDZ	K8BL	I5HOR	139	N2PK	W2GD
	KF6HI	JH1TWT	DJ4XA	N2RJ	W3JX
148	N4GG	JH2QMT	DL5CW	OH6NIO	W4BUW
AC6DD	RT0F	K4WZ	DL5EBE	RA3CO	W4MBD
F5CQ	W1ZT	K5TR	DL8OH	RG7G	W4RFZ
N2WB	W3IP	K8UT	I5MXX	UU1JA	W5ZG
OH2BLD	W6RW	N2WM	IZ8IEV	W11TU	W6JTI
SM6VR		N7QT	K3ANS	W5LUA	W8HW
UA2FF	144	NA4D	K6AM	W5ODD	WE1P
W4DKS	AF4HX	OK1DO	K8RF	WB5JID	134
W5FIX*	DK1WB	W2OO	KR2Q	WB8CQV	IK4DCS
W5FKX	DL4SZB	W6QUV	KU0A		JE3ENP
	EI6IZ	W7HPW	LA8WG	136	JR3OEH
147	GM3ITN	W7ZI	OK1MP	E72U	K1TO
DL4MM	HB9BYQ	W8RLS	OK2QA	EU4A	K9MK
IT9DSZ	IZ3ENH	WA5POK	SV8ZC	IK8CNT	N9RS
JA1XQC	JA3GN		W1OP	JE2DZC	RG6G
K2AX	JH1QDB	141	W9XQ*	K0TV	UA0ACG
K4RG	K1KA	DL5MHQ	WA8WV	KR6C	UY0ZG
KM1H	N1IX	EW1BA		N2ZN	W4JKC
LA0FA	N3KK	HB0CC	138	N5XZ	WO2T
N3RC	NE3F	K2RW	DK8MCT	OK1DW	YU1AM
N9CO	NI0C	N1EN	DK8YY	SM5OJH	
SP6EQZ	SM3DTR	N1IBM	EI9FBB	UT3UZ	133
UN7LZ	SM4OLL	N7BT	EW2A	W2CG	AA6AA
VK3HJ	SM5CLE	NJ3K	F6DDR	W2OIB	AA7G
W2KKZ	WC5M	NQ7R	HB9TKS	WB7QXU	CU3EQ
WB3JFS	WD5T	NY2NY	HI3T	WP4G	EI9JF
	YO3CD	SV3FUO	IK8EPC	WW2DX	EU1U
146		W1AX*	JA1PTJ		IZ8DFO
G4GIR	143	W3BW	JA1SVP	135	JA7GLB
IV3VBM	DL6EN	W5VQ	JA2ATE	5B4MF	K1ZN
JA1HQG	HS0ZEE	ZS1C	JA2VQF	DJ9ZB	K2CDJ
JA4DHN	JN1BMX		K1RO	EA8JF	K3OX
JE3GRQ	K0QC	140	LA6OP	F5PAC	K8GI
JH1GNU	K3VAT	9A1CAL	N1CGP	F6FXU	KS4YT
JH1NYM	K7CMZ	DF2RG	N7WS	IT9GSF	KU2A
JR9OPJ	K7CW	F5LVL	RW4CY	IV3DXW	KX4TT
K5SM	K7HP	K3PP	SV1CNS	JA1TMG	N9MR
K7WP	KJ9C	K5WK	W1GD	JA7LMZ	OE1KM
OZ1HX	N5UW	K6KLY	W2YE	JA8BNP	RV4LC
R9OK	PY5EW	K6NR	W4YV	JA8JL	UQ2PZ
RN3OG	R8TX	LA9VFA	W7OM	JA9RRH	VE3WT
RU0SN	UN9L	N4XP	W9JJB	K2RET	W0NFL
W1IZL	VE3CV*	OK2ZV		K7FL	

W2QO	SV5DKL	128	126	W3BG	122
W5ADD	W0SD	AA4SC	AB9M	W9CG	CU2AP
132	W7JY	EI2JD	DJ8WD	WB3D	EA3GP
AA4NC	W8DCH	ER0FEO	DL6MRS	124	G3NDC
IT9BLB	130	JA2KSP	F8BPN	AA7XT	G4WFG
IT9RDG	DF9ZW	JA2KVD	G4IUF	E70T	G5LP
JA3DY*	DK7YY	JA9AA	JH1HHC	EA1YO	HK4SAN
JA6CBG	E73M	JE1LFX	JJ1DWT	HK1MW	JA1MRM
JH4ALY	HK0HEU	K0FF	K2ZD	JA9AGN	JA6WJL
K6YUI	JA2FBC	K3XA	K4JKB	JJ1DHY	JJ1DCW
KD0PO	JA7LGE	K4SE	K4XU	KA6BIM	K1YT
KE9ET	JF3LOP	K6LPO	KC2LSD	KD4POJ	K2MP
N6HY	JR7WFC	KG7CW	KF8DX	KI4WCQ	K7UT
ON4CAS	K1ZE	N5KM	N3MK	NA4EA	K7ZA
OZ2RH	K2MYR	N5MOA	N8NA	OZ8X	K8BKM
SM4BZH	K5VWW	R9SG	OK3CQD	SP6A	KR0P
SM6BGG	K7LFY	S53X	PA5TT	UA0BA	LA8PT
UW8SM	K7XB	SM3GQP	VE3CX	VE1DUN	N4DWK
VE3CRG	K8BCK	SM3LGO	VE7BV	W2RIJ	N6PSE
W1EQ	K9GL	SV3DCX	W5AJ	W3FM	NN7X
W4AXL	NO9E	VQ9LA	W8REW	W6CYX	OZ3Y
W4RBO	OZ2ABI	W2WC	WD4LBR	XE1KK	PC3T
W4WM	PY5HOT	W4IS	YU1EXY	YO2RR	RD4A
W5SL	R3VA	W6RKC	125	123	UU4JMG
W7AH	R5QA	W8MET	9A1AD	AC4TO	W5DAW
W7CD	R9AB	ZS6UT	DS1JFY	DL7JRD	W8NJR
W9FR	RU1AO	127	G7VJR	HB0WR	W9ILY
WA9PIE	SM5CBM	HB9HFN	GW3TMP	I0JBL	121
XE2S	UN7JX	JA1DDH	IZ4GWE	IK3XJP	AA6RR
YV2IF	VE3DO	JA1WLO	JA3OOK	JA0CRG	DF1DB
131	W2MPK	JA2AHH	JA4IYL	JA3MHA	DK1EI
AD6W	W9ZT	JA8RJE	JA6VU	JR1EBE	DK6CQ
G3UHU	129	JS2LHI	JA7KY	K2PK	F4GTB
HB9IQB	CT3HF	K0RW	JE1TSD	K4ZIN	KD8RQE
HS1NGR	JA1NWD	K3TRM	JE6UWU	K5GH	KG9Z
IV3KFB	JA4OK	K9ZM	K1HAP	K9CS	KQ4AV
JA2TBS	JA8JO	KM4H	K5KG	KM3V	RA5BM
JJ1TEA	JE1FQV	N1AC	K8DV	KM4NS	UQ1GWW
JM1FHL	JH0BQX	N1GC	KJ6P	KV4T	UT4EO
KH2L	K3NK	OE8HIK	LZ1XL	N2ED	UU2JQ
N4QWZ	K5VIP	S55DX	LZ2ZG	N6MZ	VA3AYA
N5PHT	K6XM	SK7AX	N2KA	N9JV	W2GG
N8OC	N0YY	SP7ASZ	N3EN	N9LQ	W6XI
NA5DX	N3KS	UT5EL	N4JT	NA2P	WA1PMA
NN4R	N3RR	V51B	ND5S	UA3DK	WB8K
OE6VIE	OE1TKW	W0CP	NW6S	UT3QU	XE1VIC
ON4ON	PY5EG	W0RT	OE1AZS	W1AO	120
R0SR	SM3BCS*	W0YVA	OZ1IKY	WB0TEV	9A5F
R9MJ	W6DR	W3MF	RA0BA	WB2REM	DF7EE
R9SA	W7QHE		UU7JM	XE1H	FG5FR
SP3XR			VE3UTT		HB9BLQ

IZ0LKV	SV1ACK	K1UU	W1WEF	F6CWA	NK5B
IZ5NFD	SV1IW	K3WGR	W7GG	G3SDL	PA3EWP
IZ7EVZ	SV2AEL	K5JC	W7OEV	G8DX	R7NA
JF2WXS	W2YR	K6PJ	W8LRO	HP3TA	RA4UN
JL1RUC	W4HZ	K8OOK	WA2USA	I5OYY	RZ3AUL
K2BA	W5QP*	K8QM	WA3I	JE2JMV	SM5ARL
K2HK	WE4S	N0OK	WQ5L	JH6WMJ	SP3EPG
K3QIA	XE1RCS	N3ND		K1RV	SV1JFV
KA8ZPE		N4IR	115	K2DC	SV2AVP
N4BAF	118	N6MB	AJ4F	K3MD	UN7TW
N4TB	5T5PA	N8AA	C6AGU	K3OSX	UT8MM
N6HC	AE3T	N8XI	CU2CE	K5RJ	VE3KI
OE3EVA	CT3KN	NY4G	DL9GOA	KB8U	W0VX
PZ5RA	DL5OCE	R6FFB	EI2GLB	KZ4V	W2GW
SM0BYD	HB9DHG	S51NM	G4XEE	N2JJ	W6BK
SP7ITB	JA1SJV	SM7BIC	HA5UK	N3MN	W8FAX
W4PRO	JA4FHE	SP2BMX	JH1RFM	NU8Z	W9VNE
W6RFL	JH4ADK	SV9COL	JN1RQV	SP3FAR	WA1FCN
W7RN	JI8DGO	UA6J	K0GD	SV1AHX	WA4DOU
W8GNM	K4CNW	UB3A	K0SD	UA3FT	WB2HJV
WY1G	K4TT	UR9IDX	K1CA	VK4CAG	WS4C
ZL4AS	K8LN	W0IZ	K1RI	W2/CT1GIF	ZL1BYZ
	KD6UO	W2JU	K4CMS	W3RJW	
119	LZ2HM	W4DAO	K4GHS	W4TUN	112
AA3AZ	N2MM	W4ZRZ	K4GK	WA9YYY	A92IO
DK3GG	N3UA	W6SL	K5XM	XE3ARV	DJ1RL
DK3UA	PY2PA	W8ZR	K8YTO		EW1DO
EW4M	RN3TT	WB0O	K9SG	113	G3XGC
HB9AAQ	TA2RC		KO8SCA	9A1A	HB9CRV
HB9BCI	W1KSZ	116	LB5WB	BA4RF	HB9G
I2TZK	W2TB	DL7URH	N0IRM	DJ5DT	HK3PJ
I4MKN	W4NJ	EA5BRE	N4OA	DJ9RR	IK0IOL
JA3AZD	WT4Q	HA7PF	N8KOL	DL8CM	IU0LFQ
JA4XGC	YO4AUL	HB9AZZ	PA3AXU	DL8DYL	IZ4DIW
JG0CQK		IK0EIE	RZ6MJ	EA5KA	JA1SXR
JH6CDI	117	IT9TQH	UA1ANA	G4AFJ	JA1XCZ
K4ZO	9Y4VU	IV3HYD	UA1CGS	G8BCG	JA7BXS
K5UZ	AE0P	JA1WTI	UA6XT	IZ0RVI	JR7TEQ
K7EG	BH4IGO	JH4JNG	UN6T	JA4ITW	K0CA
K8KWT	DL1DWT	K1DC	UN7JID	JA5WIZ	K0JPL
LB7ZG	G3LAS*	K1ESE	W9AJ	JH4GJR	K1KO
N1JP	HA1RB	K6EME	W9XX	JR6LLN	K4UAS
N4UFP	IK0AGU	K6SIK	YL2CZ	K8SL	K7TM
N8PW	IK5DNF	KT1V	ZS1A	K9GWH	K8CC
N9UA	IK8GYS	LA7WCA		KH6DX	KI4DLS
NA2U	IT9DAA	N0KV	114	KI0G	KM1C
NA9RB	JA1HQT	N2BJ	AB1OC	KV1J	KT1J
NN2L	JA4FM	N4TL	AB2E	KV4AA	LA8HGA
NT2A	JA7GYP	PA0JSE	BA4DW	N1QY	N4ZY*
NY7T	JA7IC	RV3ID	BA7IO	N3NR	N6MA
OH5NG	JM3GXU	US1CT	CT3FN	N4DJ	N6RK
OK1DT	JR1XIS	VA7CRZ	CU3AK	N7KO	NA3F
PA0TCA	JR6FC	W1ENE	DL6NB	NI5F	NA5C

RU4SU	W0QQ	YO9FNP	IK2OHG	J68HZ	JJ0NCC
SM3DMP	W2SKI	YU7AU	IU0HDC	JA0GCI	JR0EQQ
SP6JIU	W4HOG	ZL3NW	IZ0BTV	JA5EY	K0DEW
UA1ACG	W4NF		JA2MOG	JA8JTH	K1PX
UA1CEI	W4NU	109	JE2EHP	JG1DUZ	K3WC
UA6AUA	W4OX	AA4U	JH1ORA	JH4HMG	K4DSE
UT6UD	W5AQ	DL2VWR	JH3CUL	K2MK	K5AM
VE3YF	W7VS	EA3GHZ	JR2UBS	K3SW	K5ZQ
W1HEO	W8LMG	EU4T	JR7FRW	K3YBN	K8JJC
W2CVW	W8MIL	F8EZE	K1XM	K5KPE	KQ3F
W3MR	W9RB	G8AJM	K2KQ	KE2R	N0JZ
W3UL	WA2MUA	HC1BI	K4WY	N2RR	N2CW
W4VHF	WB9EEE	JA2CXF	K6UT	N3DAP	N4LR
W5VX	XE1RBV	JA5FDJ	K8OM	N4RF	N7NR
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W8HMK		K2ONP	N1BZ	ND4V	OE5CSP
W9SE	110	K4RDU	N2CG	NG0G	OK1AYU
WA8OLN	AC9EM	K4WW	N6RFM	OE1CP	OK2BVG
ZP6CW	CU3AN	K5KA	NY4I	OK2BUZ	S57AL
	DL1VDL	K6MW	OE3SGU	OK3CQR	SP6AXW
111	DM2RM	K7PI	PA0ZH	R0FA	UR3CRO
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AF4OX	F5BAR	KE1F	R7LA	RV6ARZ	UU5WW
AJ4A	G3LNS	KL7RA	RX6DX	SP3BQD	V73AZ
DK2WH	I2BBJ	N9HF	S57J	SQ5EBM	VQ9SS
DK6ED	IK5RUN	NN4RR	SM6AOU	US5CB	W1CWU
DL5CL	JA9KRO	NU4I	SP6M	VE3OI	W2LE
EV1R	JH1VHU	OH1ZK	US0YA	W3KB	W4IR
G3PLP	K1EO	R7LP	UX7UN	W6TDX	W5JAY
G4DBN	K3JRR	RW4UU	UZ6LWZ	W9CPV	W8IW
IK2CHZ	K5WAF	RX3AGD	VE6AX	WN0L	W8OP
JA1AUD	K6VKO	SV1FKZ	VU2CPL	WS1L	WA4MYO
JA1FGB	KA4RRU	TG9NX	W2UB	YL1XZ	WP3R
JA1NCZ	LZ1PM	UB5ZAL	W3NRJ		WT9U
JA2HYD	N3HBX	UT7KF	W4ZYT	106	WW1WW
JA5XAE	N3IQ	W0RX	W7ACD	AA4FL	YL2GN
JE8TGI	N3JB	W0VHF	W9NIO*	AE2U	YU3EF
K0TPP	N4IQ	W5WP	WA2ALY	DJ6OZ	
K6FW	N4KE	XE1FAS	WA8MOA	DL1QQ	105
K7ORK	N7BD	YV3AGT	WC1M	DL2NOM	DF2PI
K9AJ	NA1DX		WD9EQU	DL3JSW	DF8AA
KM1R	NC6K	108		DL6CNG	DJ3XD
KZ0X	RD9M	AI2Q	107	DL9FCY	DJ6KH
LA0CX	SM5BHW	AL7R	4Z5LA	EA1JO	DL4ZAB
N4WJ	TA1CM	DF1KG	DK3FB	EA3CCN	DL6XK
N6PE	US7MM	DG7RO	DL2CHN	G4RGK	DO1CTL
SP8HKT	W0UY	EI8IU	DL5XU	HA8DZ	DO4DXA
UR6QA	W4DC	ER1LW	EA5AT	JA1VLK	EA3CJ
UT1UY	W4GE	G3SVD	G3VAO	JA3NHL	ES1GO
VE6KC	W4NE	HB9BAT	G4AKY	JE6IGP	G3YUV
VE7CT	W5JMW	HL3GOB	I5IHE	JG3HBO	HA8FW
VE7UF	W5ZPA	IK0PRG	IT9XTP	JH2KKW	IU8FRE

IW3GJF	DL4FAP	W3DRY	KJ4R	HB9AHL	VR2MY
JA1BWA	DL7UPN	W3FOX	KJ7WY	HB9CQK	W1PV
JA1TAA	E73D	W3TMZ	LX1DA	IK0DWN	W2EQ
JA2MNB	EA8ZS	W5CWQ	N0RU	IK7YZG	W2LW
JA6VA	F6AJA	W5GJ	N5BO	IT9SFT	W2TX
JA7BME	F8GB	W5ZO	N9BBQ	IZ4MJP	W3EKT
JA8RRF	G3BRD	W6PH	N9SF	JA0HXV	W4ALF
JE2UFF	HB9CIP	W7DR	N9TF	JA2OLJ	W4JVN
JG3LGD	HK3O	W8KA	NE0DX	JK1MZT	W5THT
JR3UIC	JA1SDV	WA6TLA	OH3GD	K0YN	W5TO
K2XF	JA2FGL	WA9ETW	OK1DQT	K1PTF	W7IUV
K5CD	JF1EGO	WL7E	OK2BQU	K2LP	WA0IDK
K7OX	JF6WTY	XE2YWH	OK3BRK	K2TK	WD8DSB
K7PO	JH7RXU	YC0LOW	OZ7JZ	K3KG	WS4Y
K9RO	JO1WXO	YO5ODE	R9GM	K4AQQ	YO2IS
KA8SYV	K0WK		RA0FA	K4LM*	
KI5T	K1BG	103	RA4HT	K4VIG	101
KT2E	K2BB	AG1A	RK3QY	K5ZO	AA2VG
LZ1JZ	K2BLA	AG1I	RU3OW	K6MI	AA4NU
N2WLG	K3PH	AI3Q	SM3CBR	K7BHM	AB4GE
N4JI	K4KEW	AL7TC	SM6EHY	K7BTW	AC5O
N4NW	K4MF	CX3CE	SM7BHH	K7UA	AC9S
N4SC	K6UM	DJ1MM	UA3PFN	K8BHZ	CT1JGA
N4VN	K7TJR	DJ7PI	US2WU	K8OQL*	D44BC
ON7PQ	K9EA	DL2HX	VA2ZO	KG8CW	DH2FW
PF7M	KA2BZS	DL8YRM	VA3IC	KX2A	DK9WI
PJ2/K8ND	KB2FCV	DM5TI	VE3MFA	KY6R	DL1KS
PY5CC	KH6KG/W5	EA7SG	VE3VV	LA3ANA	DL3ANK
R6YY	KW0A	EU6MM	W0UVC	N2SQW	DL5JS
RA6AF	N3ER	EW3LB	W1CTN	N5RZ	DL5RDI
RD4WM	N3TR	G3BDQ	W3XY	NA5Z	DM3ML
UA3O	N4MEC	G4AAW	W4AVY	NS3L	EA1WX
UA6LCN	N4TTE	G4PUQ	W4MZ	OH2EA	ES5RW
UR1RWX	N8MZ	G4VGO	W4TMR*	OK1DTN	EU1TT
UR2RGN	NJ9C	HB9RYZ	W5VU	OK1JDX	G3ZFC
VE1PZ	NN3Q	IK2ANI	W6SZN	OK3CSQ	G4DJJ
VY2ZM	NU4Y	JA2GQO	WA2BOT	ON5UE	G4FJK
W4OWY	RA1QX	JA8EJO	WB4TDH	OZ1LCG	GM3WTA
W6FF	RU3UR	JH1DGQ	WC6DX	PA7TWO	HB9NL
W8FIB	RZ6DX	JK1BSM	YO7APA	PY2DO	I8LWL
WA7BNG	RZ6LB	JM2RUV		R2AB	IK2SGB
WA8MCD	SM5CCE	K1EP	102	R3IS	IV3GOW
WB2UFF	SM7CQY	K2CJ	A6/RV6LNA	RU3UN	IZ7JVR
WQ5W	SO5AS	K2UVV	CT4BD	SM6WET	JA1VVX
YU1NR	UA9FGJ	K3FM	DK3QM	T77V	JA6TMU
	US5CAO	K4LQ	DK5RL	UA1AIR	JA7SFD
104	UT7EC	K5AV	DL3DXX	UA1CKC	JH3HGH
9M2AX	UX4UM	K5JUC	DL3NCR	UA6HOF	JH3PRR
AD1C	UY0MM	K8CCV	DL4CW	UA9MR	JI3KDH
AH0U	VE3VHB	K9DR	DL4KUG	UA9UCO	K0LW
CP8HD	W0YBS	K9MUG	EI4DQ	UW7CN	K1YR
DJ8ES	W1QA	K9XJ	F6BWO	VE2FYR	K3SEW
DK3BK	W2NO	KE1IU	FM5WD	VE3EDY	K5FZ

K5HK	UT7HA	JA1BRK	NG7A	W5VY
K6AAW	VE2OJ	JA1CPU	NJ3I	W7DT
K6XJ	VE3XB	JA4FSH	OE5JDL	W8CNL
K7AR	VK2GR	JA5DQH	OK1DXD	W8FN
K7IA	W1FC	JA8OW	OK2PAZ	W8GDQ
K8BN	W2SF	JA9CGW	ON7EH	W9YE
K9PG	W3HKK	JH3GCN	ON7GB	W9ZCL
KE4S	W3WH	JH9DRL	ON9CC	WB4SON
KF7NN	W4BUE	K0EEO	OZ1ZD	WB5TUF
KI0KB	W4WT	K0FLY	PA0INA	WK4Y*
KN6J	W5KI	K0XM	PA7RA	WU2M
KQ1F	W7AV	K1NA	PV8ABC	YL2SM
KW4BY	W7CB	K1NZ	R3PJN	YO9FLD
LA2GV	W7QC	K2BX	RA3SD	ZP9MCE
LZ1XZ	W8GB	K2CBI	RA4LW	
LZ2XF	W8VK	K2CYE	RA6XB	
N2AJ	W9MAF	K3TZV	RL3BZ	
N3XM	WB3HLH	K4FT	RN1A	
N5AQ	WC4H	K4KAY	RT5A	
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N6NU	WR2G	K4UQC	RW9QA	
N6WM	WX3P	K7VIC	RX9JX	
N8AG	YO6BHN	K8BZ	S53MJ	
N8NN	YV4DYJ	K8CR	SM5AHK*	
NX2X		K8CS	SV1VJ	
NZ9Z	100	K8LE	UA3AKI	
OA4TT	9M6YBG	K9NZ	UA4PAY	
OE3WQB	A41ZZ	KB0EL	UA6CEY	
OH3TY	AA4AK	KC0V	UN1L	
OK1PGF	AA5JF	KC4D	UN6P	
OK2BOB	AB4VV	KC5LT	UR4CW	
OK3EY	AC4VM	KD2T	UR4LRG	
OK4MM	AI2S	KD8BZY	UR8IDX	
ON4LG	DJ6OI	KJ6NZ	US8UW	
OZ4AAL	DL1HRN	KM8AM	UT4EK	
RA3AH	DL1TPY	KN4KL	UW7LL	
RA4P	DL9GTB	KP4N	VE1RGB	
RA4SD	DU7ET	LA8W	VE3OAT	
RB7GG	EA1AF	LU5OM	VE7JKZ	
RK9F	EA2AAZ	LU5YF	VP2VA	
RY6M	EA3ALD	LZ3YY	VR2PX	
S50B	EA7QW	MM0SJH	W0GYH	
SM2DMU	EA8AXT	N0AH	W0MU	
SM7NDX	EC5A	N1KI	W1AN	
SP7JLH	ES5NC	N1MD	W1AW	
SP9DH*	FM5GU	N2XQM	W1LY	
SV1PL	G3OIL	N3AF	W1MRH	
UA0FDX	G4CGG	N4CRI	W1YRC	
UA4PCM	GM3ZSP	N6PAT	W2CCC	
UG6GAW	HI8RD	N7TK	W3BBO	
UR7CQ	I2VGW	N8IL	W4HHN	
UT1CC	IK4MSV	N9ADG	W4OV	
UT4IS	IS0/YO3RA	N9ISN	W4UCK	