

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 Nov 2024, 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 K9UWA UA2FF	315 4X4DK IK4WMA OH3SR	SP2FAX	303 F5LGE JA1BK JA4LKB	298 9A2AJ IK2DFZ OZ3PZ
341 EA8AK	324 K2TQC OH2BO	S50U W1JR	309 UT5UGR W5IZ	K1UO SM3GSK YU1FW	SM5CEU
340 K1ZM	W1NG	314 IK4GME K5RK	308 I4EWH IK4MGP	302 DL4MCF GM0GAV GM3YTS	297 DK5PR N4CC OE6IMD
339 W4DR W4ZV	323 S50A SP5EWY	N1DG NX4D OK3GU	IV3PRK K4SV K8GG		OM2XW RA3DX W0FLS
334 N4WW OH2BU	322 EY8MM K4PI UX0UN	UA4CR	307 DJ7MI OH5VT RZ3AM	301 DL9KR LZ2JE N1RJ	296 DF2UU F5NTV G4PWA
333 R7LV	W3UR	313 GM3POI OE3GCU OZ7YY	UT3UA VE3EJ	N3XX S54E	OE1WEU ON5NT W1JZ
332 UR0MC	321 WB9Z		306 K4CIA N4RJ	300 F6BKI G0JHC G3KMA	295 JA2JPA K3UA
330 AA1K HA0DU K5UR	320 SM4HCM W8UVZ	312 OH1MA	SM0AJU WT3Q	I2ZFD PA3FQA RC3FL	294 JH2FXK LA5HE RJ3AA
LZ2DF OH1XX UT7QF	319 K8MFO N0XA SM4CAN	311 DF3CB DJ6RX DJ9KG	305 EA6SX JA7NI K4ZW N4IS	SV8JE VA3EF	WD5COV
329 K3UL UA4HBW	318 W9ZR	OG2M RA7A	304 CT1EEB DJ0MDR	299 JA4DND K4TEA	293 DL1AMQ S58T
328 R4GM UA4CC	317 W3LPL	310 I4AVG KJ9I	NN4T UA6A	N1BUG SV1FJA UX1UA	SV8CS
	316 W2VO	SM5BFJ SM6CVX		W7UT	292 G4BWP

JH4UYB	286	279	K5BG	265	RN3CT
JR2KDN	DJ2YA	IK4DRY	KF2O	AA1V	VE3QAA
OZ1BTE	IK1GPG	JR7VHZ	MD0CCE	AA4V	
SM5AQD	K3SX	N2TK	RA3DA	AA7A	257
SV1AOZ	N3SL	UA6MF	SM6CCO	G4OBK	IK5HHA
W3YX	PA0WRS		UA3DPM	RW0LT	K1GUN
W8TOP	UT7UW	278	UX1AA	YO5BRZ	SV8BHN
	W8AV	DK0EE	W6UB		W9YSX
291		F6BEE		264	
9A7V	284	JA3FYC	272	AA6YQ	256
DF3GY	K5XI	K5DU	9A2EU	K7ZV	9A5CY
JA4LXY	UA3AB	KG4W	CT1EKY	W1GL	JA5BZL
KD9SV		N5DG	DL1DUL		JH1GZE
N0TB	283	UR5WA	DL2OE	263	K1QX
R7NW	CT1APE			IZ1ANU	K5VRX
SM3NRY	G4CCZ	277	271	K9OW	K8FL
SP3E	HB9BGV	AA4MM	EU7A	W2SM	N5KD
UA3LAR	NA0Y	DJ9VA	G4GED	W3AP	N8TR
UT7UJ	NO3M	F6AOJ	HB9AMO		PA7MM
	R3OK	IK5BAF	OZ1CTK	262	W1TSP
290		ON7TK	SP6CIK	G0DQS	
IZ0AEG	282	SM6CNN		K4XP	255
SM6CMU	DL1YD		270	KR9U	G3ZSS
SP3IBS	I0WDX	276	OE5KE	SP9JZU	K4QL
UA3AKO	JH4IFF	DK5WL	SM5KNV	W1YY	KY7M
W5ZN	K4SO	DL7VEE			N2MF
	K8KS	G3LZQ	269	261	UX0FF
289	N2LT	N8RR	IK6DLK	9A4T	W3DF
I5NPH	N7NR	N9IW	JA5AUC	DL9YX	W5OZI
JA3ONB	SM6CTQ	OK1AWZ	K6ND	K2EK	
K0KX	SP3DV	SP9DWT	KD5M	K5KC	254
K4WM	US5WE		RV3LO	N6SS	N0AT
N8DX	UY5ZZ	275	W1ZC	NO8D	OM3DX
RX4HZ	W0BV	9A1CCY		SP1S	WA4FFW
US4EX	W2YC	K2UO	268		
		K4IQJ	DL5DSM	260	253
288	281	OH3BU	G3WPH	EI7BA	5B4AGN
PA3GCV	DF2PY	SP5CJQ	RA3XDX	K1LT	K5ESW
RA3CQ	JA2PJC	UW2ZM	RK4FD	K4DY	RU3FM
RY9C	JA5EXW	VE2TZT	W1MK	KX4R	S58Q
SL0ZG	K1CP	YO3APJ			UA1OMS
SP7VC	K9CT		267	259	W0YG
UA4LY	S59Z	274	LU8DPM	DF4PL	
W0JX	W4TO	G3TXF	RZ3DX	EA5BM	252
WK3N		IK4CIE		F6GCP	EA1DR
	280	K1ZZ	266	I1FQH	IV3YYK
287	EA6NB	SP6AEG	K8PT	IK2YCW	JF2MBF
DL1RWN	HB9BIN		LA3MHA	N3NT	JG3QZN
G3XTT	NJ6P	273	NR1R	R9FM	LA5IIA
N2QT	SM4DHF	F5NBU	R3LA	SP5DIR	PA4VHF
VA3DX	SP6HEQ	IK8HJC	W8TE		S52F
W4PK		JA8ISU	W8XD	258	W3UM
		K2CL		KW9A	

251 DJ7RD DL9RT JA2VPO JH0BBE N4II ON4AOI VK4MA W3KX W5UN W7LR	F2JD JA1GV N9US RL9F RY7G	LA2XPA SV8GFW UR5MID VO1NA	VE3XN WA7NS	229 CT1FJK DJ4AX JA8FKO JI1BEX OE5NNN RO7T	US0SY VA5DX W7KW
250 HB9RG NQ1K OZ8BZ PY2RO	244 AG9S DK6WL IK0XBX JA1HGY JA7QVI K9RX ON4IQ	239 F6BLP JR3GWZ K0KT K1HTV KH6AT LY3UM RN3QN RU3QR SV1ELF	234 AC4G AJ6T K4UTE KF0QR PY1BVY	228 AF9H AI0O EA1N K4HB OH2BEN VE3DZ	224 DL5WW IZ1LGB JA9CHI N8BM ON4GG SP5INQ SP8NR VE6WZ VK6VZ W0VTT W2RQ
249 AI9L I1EIS JQ3DUE JR3IIR K9NW SP5DRH	243 AB3CV DK2JX DK3DG IV3ODE JF8QNF NN4X ON4ATW S57A W9RPM W9XY WX4G	238 DL8WN IK0XEZ JA0CRI JA0DAI VO1HP	233 AB4I JA0FSB K0CS K1AR KA7T SK3PY UA4HAU VA2WA W7AO	227 DL7HU E72A ES1RA IK0HBN IK6FWJ JA1UQP K1FK K3NW KD0Q N2WK NV9L W1TC WB6RSE	223 AB0X HA7TM I3BUI JH2TPI RT6T SV2JAO SV8CKM ZS4TX
248 K3WW K5RX N2NL R5DT SM3VAC T77C UT9FJ W9NGA	242 KG7H R5AJ	237 DL7MAE IK0MHR K1DG NI0G OM4EX SV1RK	232 JA8EAT K2AZ K2UU K4XL NI6T UA3AP UR5EDX W3LL	226 DJ5FI JA6BZI JF2KOZ JR6EZE K9FD N6AR N6JV UT5JAJ	222 DF6PB IV3JVJ K3SV K6EID N5AW N8PR N9BX SM0CCM W9BF
247 K6XT NO2R R7IA WB3AVN	241 EA4KD JA1SYY JA3EMU K2FF K5ZK N4XM N5TY N7RT OE2LCM OK1DWJ SP5GRM UA3TT VE1YX VE3NH	236 G8VR JA5MHD K1JO K9NR K9ZO KC7V OK2ZI OZ4O SP8AJK YO9HP	231 4X4NJ EA6VQ HA9RE IK0YUT JH1HGC K5EK N7NG ON4ACG S51DI W9IXX	225 A45XR IW1ARB JH7PFD K1MM K5AB K9FD/KH6 N4CH RA3QK RV1CC RW3XZ SP3CGK	221 DJ8NK K4MWB K8FH K8SIX N6VR SP7GAQ W1ZK W6JRY WS6X
246 DJ2TI K0IEA N6TR TF4M W2TQC W5XZ	240 K0JUH K1FZ K1ZG K9OT	235 CX6VM EA6ET JH4ADV K3SWZ KA9CFD N6DX OK1CF R7DX RA0FF	230 FK8CP IZ8FFA JA1CMD N8JV SM3NXS W4GF W4VQ		220 AG8B HB9LCW HL5IVL
245 AA1QD DL4CF					

JR4OZR	N7JW	RA1QD	K5RT	LY1G	IT9JNR
K8ZTT	W0UO	RU3SD	KG9N	N7KA	UA0SR
KA1R	W2LK	UR5FEO	N8DJX	OK1DOT	W2IRT
N1LN		WA5VGI	N9AU	R9TO	W8HB
N5JR	214		SM6BZV	UA9FAR	
VE3EXY	AD5A	210	US0KW	W7DO	197
	HL3IUA	I8SAT	VE3BW	WA2HZO	G3SNN
219	JA2JW	JH0INP		ZL3IX	HB9DDO
IK3VUU	JA2WYN	JJ2LPV	205		I5KKW
JA2FJP	JJ3PRT	LA4GHA	I4KDJ	201	JH2UVL
LB8DC	K3JGJ	UW7LL	JA3AAW	AA5AM	K8NVR
N0AV	K4NA	W7JW	K1DT	CU2DX	LA5YJ
OE8RT	OK1DX	WS9V	PY2XB	DL1EJA	OE4PWW
RA3WDK	ON6YH		W8UN	F4BKV	OE5FIN
SP4K	RN7G	209	WB8ZRL	JA9NFO	ON4CD
UT7UV	W4NL	DL5CF		JJ2KXK	RZ6FA
WA2UUK	W6YI	DL9MRF	204	JO7WXN	UA0SC
		EU1KY	DJ5AV	K3HP	UT5EL
218	213	F6DAY	IK7NXM	K5MC	
DJ4PI	DF2IS	HB9DDZ	KK4SI	N4QS	196
DK0PM	DL7BA	JA0UUA	LX2A	UY1HY	4Z4DX
IK1YDB	EI3IO	LA7GIA	N4NX	W5TCX	AA4HP
JA2FBY	HA1RW	N9LB	N7FU		AG4W
JA8CDT	JF6DSZ	VE1DX	US6EX	200	DK2LO
JF3KON	K1ST	VE3LYC	W2HUV	JA1GTF	F6EXV
K0EU	NA2M	W0ZR	WD8PKF	JA9FPI	IK4PLW
K5UO	RU4SO	W1ECT	WF4U	JH2RMU	JA4PXC
UT4MF	W0LYI	W7KNT	W18A	K1GE	K8PO
W5PJR	W1FJ	208	203	K3LR	KA9FOX
WA7NB	W2WG	G3NSM	HB9CXZ	K9US	KP2A
	W3YY	JA7MSQ	IZ8VYU	LA7HJA	ND0N
217	212	K2FU	JA2XYO	RA3S	RA9CMO
JG1ULJ	AA9A	N5ORT	JE1PNX	RW4NN	RZ4FO
K5PC	DK2NG	RU3ZX	JF4VZT	RW7M	SM2OAN
MM0EAX	DL9GFB	UN5J	K4XO	UY0ZG	W0FS
UA3AGW	K4MQG	W6PJ	K8AC	W0DD	W2FCR
	K8ZH	W9EWZ	K9MMS	W0MHK	
216	KE9I		KK2I	W3GG	195
JA2NDQ	KG6I	207	PA0A		G3ZEM
JA6LCJ	LA7JO	I4LCK	R6AF	199	JA1EOD
JH1IFS	N1ZZ	K1LPS	W8GC	JA2DPC	JN7FAH
K5EJ	N4MM	K3JT		JA2JNA	K7SO
N5UL	SM5CZQ	K8EUR	202	K1GG	K9RT
OE1ZL	WB9CIF	PY2BW	DL1MGB	K6GXO	KF8UN
RZ0AF		W0LS	DL2KQ	N4DW	N1SV
W0GJ	211		DL9DRA	N5ZM	W5ZG
W6XA	IK4DRR	206	EA1RT	OZ1AXG	W9OP
YO7LCB	JA2IVK	DM5EE	JA3CSZ	W1TO	
YU3AA	JA4DEN	IK0IOL	JA5AQC	198	194
YV1DIG	K3WA	JA3PIS	JH3VNC	DL1ROJ	EA5RM
	N4PQX	K2VV	K2NV	G3UJE	K4KDX
215	NX0I	K5AQ	K4JJW	G4BUE	K9JF
JA9PPC					KB9LIE

KC9ARR	K9KU	K7LAY	VE3OSZ	K3WC	RN7F
W1NT	KF7PG	N8LJ	YO2DFA	K7GM	UA3LNM
W2LO	KM1D	NE1B		K9NU	W8UV
W9OO	LA7AFA	WA3C	180	N4XU	W8VVG
WD8JJA	N5GH		DM2DXA	SM6DHU	WT8C
193	SP2LNW	185	DM3VL	W2OR	173
DL5ZB	VE7VV	AB6QM	K2EP	W5LT	5B4ALJ
DL6ZXG	XE2X	EA6BF	K6SSS	W7FI	I1JQJ
EA3WD	189	G3KWK	K7BG		IK4ADE
HA5BSW	9A2F	IK3SWB	LA9AJA	176	JA3ENN
K4ODL	CT1IUA	K5ZD	N1RR	EU1AB	JA9TWN
K9YY	EA8PP	N4TJ	N4AH	HK3W	JL1SAM
KV7K	FM5CD	N5UR	ON5FP	I6FLD	K1NTR
N9EN	IK0FVC	OE2BZL	UT2UB	JA0DET	K4XR
NK1K	JA1XEC	SV1DPI	W3YQ	JA2ZL	K5GKC
PA0LOU	JA3RAR	UA9CBO	W8TN	JA5IU	KA1J
RN1ON	JH1QAX	184	179	JA6BJV	N5FG
UA0CA	SP7HOV	AA1ON	I2AOX	JA8KSF	PY5EW
W4FC	UA7T	JF1NZW	IT9ELD	K8MN	W8HC
W9MU	WE9R	JF1PUW	IW0SAF	N5OK	
192	188	JH1RFR	JA2BDR	RL3FA	172
DK1FW	9A2NA	K4HGX	K4CN	W4BP	G0BLB
JA7JWF	AB4IQ	K5KLA	K8WK	W4GD	G3NKC
K3FN	JA1KQX	KB4ET	OK1MG	YO7NE	IZ5MOQ
K4FJ	KB0EO	KL0S	S57UN	175	JA3FGJ
K5XX	KB1EFS	S57AC	SM4DDE	JA1CHN	JG3IWL
K9EU	SM7GIB	US8UA	SV3FUP	JS3CTQ	K0DEQ
N4DB	W6SR	183	W1RM	K4DLI	K1BD
N5LZ	W8JV	CT1FMX	W2YJ	LA0FA	K6FG
W3UA	WA6YEE	CT3MD	W7BEM	N7IR	KJ0M
W4UM		IT9INO	YL2TW	N7XR	W4FQT
W8LGJ	187	K8VC	178	SM5FUG	171
191	AJ1H	KE9ET	EA3CJ	SP1MGM	AA9D
G0OIL	DF2GH	LA3WAA	JA0VSH	VE3FF	DL6KR
JA0EOK	K0SR	NN2L	JA2LCP	W7MEM	G0EHO
K8FC	KN5O	ON6SAS	JA4MRL	WX0V	JA1PPW
K9LA	N2NS	W2FP	JE2URF	174	JA6HUG
KB8VAO	OK1CZ	W8NW	K2UR	4Z5CX	JR1TNE
RK2FWA	RM0F	182	K8RRT	JA0GJJ	K9YC
RX3APM	SM0NJ0	DJ9ON	NE0U	JA2XW	LA5LJA
WA2VYA	W7AWA	DK3UA	SM7DLK	JA7MOL	N0RN
WN6W	186	JA1SHE	SV1JG	JF7DZA	N4OGW
190	9A8A	K0BBC	W6NWS	JK1OPL	N7RO
EA3JL	IK2QPR	OH2IS	177	JR6PGB	N9RC
IZ8XQC	IZ8FWN	UR3EO	9H1SP	K0TT	SV1LK
JA1ANR	JA8DNV	W1YM	AE5E	K2KA	WB7B
JA1DUH	K0BJ	181	CT1EAV	K3AJ	ZS1LS
JA1MCU	K0JGH	DK3WW	EA8JF	K4TR	
K2TE	K3PA	N3OC	HA5WA	K4WS	170
	K6SRZ		JE1BMJ	OE1WHC	CT1FPQ
				OK1DWC	DJ6TK

JA6JPS	PA3C	NY0V	AD5Q	AC6DD	HB9TKS
JF1WPB	RA1AOB	RA3ZH	DL1DA	EI6FR	JA8NFV
JM1GYQ	RN9N	W4NS	EC3A	G3TQZ	K0KVR
JR7BDQ	S51EC	W6RW	HB9DHK	IZ4DPV	N3RC
K6ZZ	SP3FAR	W7YAQ	HB9FMN	JA1GHH	W1NA
N4PY	UN9L	163	IW2FND	JA9APS	W2XI
SP3GTS	VE6WQ	DJ9HX	JA2EPW	JH7IAJ	W5DNT
SV3KH	W1YW	JA9NLE	JE2LUN	K9GA	WS7L
W8KEN	W3IP	JG0CQK	JE2OVG	LY5A	YS1RR
W9AJ	WA0MHJ	K8TL	JF2XGF	N5MOA	153
W9EVI	WA4LOX	UR4CWQ	JR7MAZ	NE9Z	AJ9C
WA3AFS	166	VE3CFK	K3MSB	RN3OG	DL3ZA
169	4Z1UF	W7AL	NR4M	RU4UR	EA5BY
HA9PP	DJ4SO	WP4U	RU6L	SM3PHM	G3TJW
IK0PEA	IV3TDM	162	SV2AEL	SV8ZS	HL2CFY
JR1IZM	JA1FNA	4O3A	UA0FZ	W2TA	JE3GRQ
K1LI	JA9LJS	9A4W	UX5UO	W5GZ	JF1IRW
K1NU	K3KY	CT1GFK	W1BR	YV2IF	K4RG
N4XX	K4JLD	F3AT	W5XC	156	K8VFW
N7US	K4PB	I2ZGC	WX0B	DL4MM	N4TV
PE1L	K4ZYU	JA6GIJ	159	F6HDH	N5TW
RA3DNC	K9MBQ	JF2UPM	JA4FKX	IK0AGU	N8II
UT8MM	RM3DA	K1KI	JE2LPC	IK0FUX	R9OK
UY5AA	W1RR	LB6KC	JH6QFJ	IZ8IEV	SM6CLU
WB3JFS	W8ILC	N8MR	JH7CFX	JH2QMT	SP5CCC
	WA8TXT	W0HT	K1KA	JO7HAM	UT5UY
168	165	W0TT	K4RO	K8YSE	WB8BPU
4Z5MU	DL7UCX	W0TT	W6BJH	KS1J	WE1P
G3MXJ	JA6VQA	W1LW	W7SX	N3UA	152
IK2EGL	JE7RJS	W3JX	W9RN	N4HB	EW2A
JA1ADT	JN4MMO	W4DKS	WA9PIE	UA3SAQ	JE3ENP
JE7JDL	K5JZ	WW3S	WD5BJT	VA3LX	JR9OPJ
K5QY	KI5BLU	161	158	W1YIF	JT1CO
K8RYU	KK4CB	DK2GZ	DJ4PT	W4TV	K7SP
KR4F	OH2BLD	DL6RAI	DL1FKA	155	KS3F
N4QQ	SM4CTT	JA1DOF	JH1TWT	AB9V	N9OY
N8BJQ	SP6EQZ	JH4CPC	J11FXS	DL1RK	S55ZZ
PA7F	W0DJC	K1USA	J11NJC	DL6MRS	UA6IGI
SP5GH	W5BN	K5GO	JR1GJP	K2LS	UT5AB
TF3SG	WC5N	K7NN	K5TT	K4WA	VE6LB
W4SVO	164	K8ND	OZ1HX	NE0DX	W1SKU
W6VX	GU4YOX	LB2TB	RU6M	NW7E	W1VT
W8OI	HA7UW	N4GN	SM4EMO	RC9F	W6RLL
WA5YNB	HB9BZA	OH6RA	W0SZ	SM6VR	W7AJ
167	JA1RTX	RW3RN	W1OX	ZS6EZ	WB3CQM
DK5AD	JA7ZP	VK3HJ	W2XL	154	151
K4XD	JH2SON	W8WEJ	W3GQ	3V8SF	DK2OY
K6KO	K1NJ	YU2TW	W4QN	DK1WB	EI9JF
K8NK	N5WA	160	157	G4GIR	F3SG
N0IJ	N9FN	9A2JK	AA4H	GM3PPE	JA6BEE
N3BNA					

K2FW	148	K4OY	W6QUV	KF8DX	OE6VIE
N1EN	DK2CC	K7HP	W8RLS	N4XP	OZ8X
N5JB	EA7TV	K8BL	WB8ZRV	N7WS	RW4CY
OK1ATP	F5CQ	KF6HI	WD9DZV	N8OC	V51B
RD3A	F5LVL	LA6OP		OH6NIO	W1GD
RU3A	HB9BUN	N1CGP	142	OK2ZV	W2YE
S54A	JA2VQF	N4GG	HB9SLO	ON7DR	W4YV
SP7AWG	JH1QDB	RT0F	I0JBL	PC3T	W7OM
SV9AHZ	KR2Q	SM3DTR	I5HOR	UN1L	
W7RH	N2WB		IT9BLB	VE6SV	137
WA1Z	NE3F	144	JE1FQV	W0SEI	CU3EQ
	W5FKX	AA6AA	JE2DZC	W4NU	GM3YOR
150	W9JJB	DL5CW	JR7WFC	W5ADD	IZ2FOS
DL4SZB		DL5KUA	K3PP	W7IV	JA3APU
EA1AF	147	E70T	K4WZ	W8LWU	JA3OOK
IT9DSZ	AA7G	EI6IZ	K5VWW	YL2MU	JA5XAE
IV3RAV	EA3GP	GM3ITN	KQ4AV	YO9FNP	JE6TSP
JA2NQG	HB0CC	HB9BYQ	LA9VFA		JR1XIS
JH1NYM	IV3VBM	HI3T	MM0SAJ	139	K2QMF
K0RS	JA1SVP	I5MXX	N5XZ	CU2AP	K8NS
K7LV	JA1XQC	IT9GSF	N7QT	DF7EE	N2PK
K8AJS	JH4ALY	IZ4GWE	NA4D	DJ4XA	ON6AA
KU4XO	K2AX	JA3GN	NQ7R	DL5EBE	RA3CO
N3QE	K8UT	JR3OEH	NY2NY	DL8OH	RG7G
N9CO	K9MK	K0VSH	OK1DO	JA1TMG	UU1JA
N9MB	KM1H	K5TR	W2OO	JH0BQX	W1ITU
OE8SPW	N1IBM	N1IX	W5LUA	K1CA	W2CG
UA6YW	UN7LZ	N3KK	W5VQ	K3ANS	W5ODD
W6DAO	W1OP	SM4OLL	W7ZI	K6AM	WB5JID
W7CT	W2KKZ	SM5CLE	WA5POK	K8RF	WO2T
WA2BCK	WW2DX	W2/CT1GIF	WB8CQV	KD0PO	
		W4GE	WP4G	KU0A	136
149	146	WC5M		LA8WG	DS1JFY
DL7CX	F5PAC	WD5T	141	OK1MP	E72U
IK4FNF	G4FTC	YO3CD	DL5MHQ	OK2QA	ER0FEO
IZ3ENH	JA1HQQ		EW1BA	SM5CBM	IK8CNT
JL1ARF	JA4DHN	143	JA1PTJ	SV8ZC	JA4OK
K3RA	JH1GNU	DL1DUO	JA2ATE	W0SD	K0TV
K3TN	K5KV	DL6EN	K2RW	WA8WW	KR6C
K4YYL	K5SM	HB9HFN	NJ3K		N2ZN
K8ME	K6NR	HS0ZEE	SV3FUO	138	N6PSE
NX8Y	K7WP	K0QC	W3BW	DK8MCT	OK1DW
SM6CUK	N7BT	K7CMZ	W4JVN	DK8YY	SM5OJH
SV1CNS	RU0SN	K7CW	W4VIC	EI9FBB	SP2BMX
UW7UA	W1IZL	K8ROX	W8HW	EU4A	UT3UZ
W0GG	W1ZT	KJ9C	ZS1C	F6DDR	UW8SM
W7HPW		LZ2ZG		IK8EPC	W2OIB
WB8B	145	N2RJ	140	JF3LOP	WB7QXU
WD5K	AF4HX	N2WM	9A1CAL	JK1AJX	
WS5W	JJ3HGJ	N5UW	DF2RG	K1RO	135
YO3DDZ	JN1BMX	N6PAT	JA9RRH	K2RET	5B4MF
	K1OA	R8TX	K5WK	KJ6P	DJ9ZB
	K3VAT	W0IZ	K6KLY	KK1W	F6FXU

HB9IQB	KS4YT	NN4R	DM2RM	W3MF	LZ1XL
IV3DXW	KU2A	ON4ON	IT9ZZO		N2KA
IZ0RVI	N9MR	R0SR	JA2AHH	126	N3EN
JA7LMZ	OE1KM	R9MJ	JA2KSP	DJ8WD	N4JT
JA8BNP	RA5BM	R9SA	JA9AA	F8BPN	NA5C
JA8JL	RV4LC	W8DCH	JE1LFX	G4IUF	ND5S
JH4HMG	UQ2PZ		JJ4POR	HB9FMT	NW6S
K1ZE	VE3WT	130	K0FF	IK8GYS	OE1AZS
K7FL	W0NFL	DF9ZW	K3XA	IZ7EVZ	OH1ZK
NZ9R	W2QO	E73M	K4JAF	JA1XCZ	RA0BA
R7LP		EI2JD	K4SE	JA7KY	UN7JID
RN3RQ	132	G7VJR	K6LPO	JJ1DWT	UU7JM
SM3LGO	AA4NC	HK0HEU	KG7CW	JL1UXH	VE3UTT
SM5CZK	AB9M	JA2FBC	LB5WB	K2ZD	W5DAW
SP3XR	AD6W	K2MYR	N5KM	K4JKB	W9CG
W1DIG	IT9RDG	K6SIK	R9SG	K4XU	YO2RR
W2GD	JA2KVD	K7LFY	S53X	KC2LSD	
W4BUW	JA6CBG	K8BCK	S55DX	LB7ZG	124
W4MBD	K6YUI	K9GL	SM3GQP	N8NA	AA7XT
W4RFZ	N6HY	N3MK	SV3DCX	OK3CQD	IK3VBB
W6JTI	ON4CAS	NA4EA	VQ9LA	OZ1IKY	JH4JNG
W8GNM	OZ2RH	NO9E	W2WC	PA5TT	JJ1DHY
WB0TEV	SM4BZH	OZ2ABI	W4IS	S51NM	JR2LJO
	SM6BGG	R3VA	W6RKC	SQ5EBM	K1UU
134	SV5DKL	R5QA	W8MET	VE3CX	K4ZO
CT3HF	VE3CRG	R9AB	ZS1A	VE7BV	KD4POJ
IK4DCS	W4AXL	RU1AO	ZS6UT	W8MK	NA2U
K1TO	W4RBO	SP6M		W8REW	PA0TCA
K3OX	W4WM	TA1CM	127	W9ILY	PA3EWP
K7XB	W5SL	UN7JX	HB9AZZ	WB0O	UA0BA
KA8SYV	W6DR	VE3DO	HK1MW	WB2REM	VE1DUN
KX4TT	W7AH	W2MPK	IU0HDC	WD4LBR	W2JU
N9RS	W7CD	W5AJ	JA1DDH	XE1KK	W2RIJ
OE1TKW	W9FR	W9ZT	JA1WLO	YU1EXY	W3FM
PY5HOT	WB3D		JA8RJE		W6CYX
RG6G	XE2S	129	JS2LHI	125	
UA0ACG		EA1YO	K0RW	9A1AD	123
W1EQ	131	JA1NWD	K3TRM	GW3TMP	AB1OC
W4JKC	DK7YY	JA8JO	K7TM	HK4SAN	AC4TO
YU1AM	G3UHU	K3NK	KM4H	IK5DNF	DL7JRD
	HS1NGR	K4TT	KM4NS	JA4IYL	DL9FCY
133	IV3KFB	K6XM	N1AC	JA6VU	F4GTB
9K2NO	JA2TBS	K9ZM	N1GC	JE1TSD	G4WFQ
EU1U	JJ1DCW	KM3V	OE8HIK	JE6UWU	G5LP
IZ8DFO	JJ1TEA	N0YY	OH1JP	JF2WXS	HB0WR
JA7GLB	JM1FHL	N3KS	SK7AX	JH3CUL	IK2CHZ
JA7LGE	JR6FC	N3RR	SM0BYD	JH4ADK	IK3XJP
JA9AGN	K5VIP	PY5EG	SP6A	JL1RUC	JA0CRG
JH1HHC	KH2L	W7QHE	SP7ASZ	K1HAP	JA3MHA
K1ZN	N4QWZ	WE4S	W0CP	K5KG	JA6WJL
K2CDJ	N5PHT		W0RT	K8DV	JR1EBE
K6EME	N6RK	128	W0YVA	KA6BIM	K2PK
K8GI	NA5DX	AA4SC	W3BG	KI4WCQ	K3XO

K4ZIN	N6HC	AJ4A	SP6JIU	116	N8KOL
K5GH	SV1AHX	DK3GG	SV9COL	AJ4F	PA3AXU
K7UT	UQ1GWW	EW4M	TA2RC	CT1FCX	RZ6MJ
K9CS	UT4EO	G4DJJ	VK4CAG	DL7URH	UA1ANA
KV4T	UU2JQ	HB9AAQ	W1KSZ	EA5BRE	UA1CGS
N2ED	VA3AYA	HB9BCI	W4DAO	EI2GLB	UA6XT
N4DWK	W2GG	HB9CQK	W4NF	HA7PF	UN6T
N6MZ	W2TB	I2TZK	W4NJ	HB9RYZ	VE3YF
N9JV	W3RJW	I4MKN	WT4Q	IK0EIE	W1OPD
N9LQ	W6XI	IU0LFQ	YO4AUL	IK2OHG	W5JMW
NA2P	W9YE	JA3AZD	117	IT9TQH	W9XX
S50B	WA1PMA	JA4XGC	9Y4VU	IV3HYD	WA7BNG
UA3DK	WY1G	JE2JMV	AE0P	JA1WTI	WP3R
UT3QU	XE1VIC	JH6CDI	BH4IGO	JG1DUZ	YL2CZ
W1AO	120	K5UZ	DL1DWT	K1DC	114
W8NJR	9A5F	K7EG	IT9AAI	K1RI	AA4DD
WB8K	AC9EM	K8KWT	IT9DAA	K9SG	BA4DW
XE1H	AL7TC	N0KV	JA1HQT	KT1V	BA7IO
122	DL2VWR	N4LR	JA4FM	PA0JSE	CT3FN
G3NDC	FG5FR	N8PW	JA7GYP	RV3ID	CU3AK
HA1RB	HB9BLQ	N9UA	JA7IC	TZ4AM	DL6NB
JA1MRM	HB9DHG	NT2A	JM3GXU	UA4PCM	F6CWA
K1ESE	IZ0LKV	NY7T	JR2UBS	VA7CRZ	G3SDL
K1YT	IZ5NFD	OH5NG	K1BZ	W1ENE	HK3PJ
K2MP	JH4GJR	OK1DT	K2BB	W1WEF	HP3TA
K7ZA	JR6LLN	R6FFB	K6PJ	W7GG	I5OYY
KR0P	K2BA	SV1ACK	K7PI	W7OEV	JA0AOO
LA7WCA	K2HK	W0QQ	K80OK	W8LRO	JA2KNW
LA8PT	K3QIA	W0RX	K8QM	WQ5L	JA4KDT
N9AW	K5JC	W4HZ	KD2T	115	JH1AGU
NA9RB	K6FW	XE1RCS	KV4AA	AA5JF	JH6WMJ
NN7X	KA8ZPE	118	N2BJ	C6AGU	K1RV
OE3SGU	N0OK	5T5PA	N3ND	CU2CE	K2DC
OZ3Y	N4BAF	AB2E	N3NR	DL9GOA	K3MD
RD4A	N4TB	AE3T	N4IR	G4XEE	K3OSX
UU4JMG	N4UFP	AG1A	N4TL	G8BCG	K5RJ
VE6AX	OE3EVA	DL5OCE	N6MB	G8DX	KB8U
W8LMG	OZ2A	JA4FHE	N8AA	HA5UK	KZ4V
WA3I	PZ5RA	Ji8DGO	N8XI	IZ7JVR	N1QY
121	SP7ITB	JN1RQV	NY4G	JH1RFM	N2JJ
AA6RR	UR5IKN	JR3UIC	SM7BIC	K0GD	N3MN
CT3KN	US0YA	K3WGR	SP8HKT	K0SD	NU8Z
DF1DB	W2YR	K4CNW	UA6J	K4CMS	UA3FT
DK1EI	W3OA	K8LN	UB3A	K4GHS	W0VX
DK6CQ	W4PRO	K8WVA	UR9IDX	K4GK	W4TUN
IK2SGB	W6RFL	K9DR	US1CT	K5XM	WA1FCN
JA1SJV	W7RN	KD6UO	W4ZRZ	K8YTO	WA9YYY
JH7RXU	WV4TN	LZ2HM	W6SL	KO8SCA	XE3ARV
KD8RQE	ZL4AS	N2MM	W8ZR	KV1J	113
KG9Z	119	PY2PA	WA2USA	LY4T	9A1A
N1JP	AA3AZ	RN3TT		N0IRM	BA4RF
				N4OA	

DJ5DT	EW1DO	G3PLP	IK5RUN	N8NN	PA0ZH
DJ9RR	G3XGC	G4DBN	JA1OVD	N9ISN	R5FY
DL8CM	HB9CRV	IU8FRE	JA9KRO	ND4V	R7LA
DL8DYL	HB9G	JA1AUD	JH1VHU	NN4RR	RX6DX
EA5KA	IK7YZG	JA1FGB	K1EO	NU4I	S57J
G4AFJ	IZ4DIW	JA1NCZ	K3JRR	NX7U	SM6AOU
JA0GCI	JA1SXR	JA5FDJ	K3PH	PY5CC	UX7UN
JA4ITW	JA2HYD	JE2EHP	K4WW	RW4UU	UZ6LWZ
JA5WIZ	JA7BXS	JE8TGI	K5WAF	RW9QA	W2UB
JH1ORA	JG3LGD	JF2WGN	K6VKO	RX3AGD	W3NRJ
JH3GCN	JR7TEQ	K2HAT	KB4MRX	TG9NX	W4ZYT
K8SL	K0JPL	K3NF	LZ1PM	UB5ZAL	W6KK
K9GWH	K0TPP	K5CD	N2CG	UT7KF	W7ACD
KA4RRU	K1KO	K7ORK	N3HBX	VU2CPL	WA2ALY
KH6DX	K3FRK	K9AJ	N3IQ	W0VHF	WA8MOA
KI0G	K4UAS	KM1R	N3JB	W5WP	WC1M
KT1J	K8CC	KZ0X	N4KE	W9FI	WD9EQU
N4DJ	KB2FCV	LA0CX	N5BO	WB5TUF	WW1WW
N4IQ	KI4DLS	N4WJ	NC6K	WC2K	
N7KO	KM1C	N7BD	NG0G	WN0L	107
NA3F	KM3T	N9HF	NY4I	XE1FAS	4Z5LA
NI5F	LA8HGA	NA1DX	OZ1LCG	YV3AGT	DJ8ES
NK5B	N6MA	UR6QA	RD9M		DK3FB
R7NA	N6PE	UT1UY	SM5BHW	108	DL2CHN
RA4UN	RU4SU	VE6KC	SV1VS	AI2Q	DL5XU
RZ3AUL	SM3DMP	VE7CT	UA3O	AL7R	DO4DXA
SM5ARL	UA1ACG	VE7UF	US7MM	DL6CNG	EA5AT
SP3EPG	UA1CEI	W3FOX	W0UY	ER1LW	EA7QW
SV1FKZ	UT6UD	W4HOG	W3XY	G3VAO	FG8OJ
SV1JFV	VE7XF	W4OX	W4DC	HB9BAT	G4AKY
SV2AVP	W1HEO	W5AQ	W4NE	HB9CEX	G4RGK
UN7TW	W2CVW	W7VS	W5VY	HB9FAN	I5IHE
VE3KI	W2SKI	W8KA	W5ZPA	IK0PRG	IT9XTP
W2GW	W3MR	W8MIL	WB4TDH	IZ0BTV	JA5EY
W6BK	W3UL	W9RB	WL7E	JA2MOG	JA8JTH
W8FAX	W4VHF	WA2BOT	YU7AU	JA3NHL	JH9DRL
W8FIB	W5VX	WA2MUA	ZL3NW	JE2UFF	K2MK
W9VNE	W6TC	WB9EEE		Ji4WAO	K3SW
WA4DOU	W8GEX	YL3DQ	109	JJ2PIK	K3YBN
WB2HJV	W8HMK	YO6HOY	DF1KG	JK1MZT	K5FZ
WB2UFF	W9SE		EA3GHZ	JR7FRW	K5KPE
WS4C	WA8MCD	110	EU4T	K1XM	K8LBT
WX3P	WA8OLN	CU3AN	F8EZE	K2KQ	KE2R
XE1RBV	WT9U	DG7RO	G3SVD	K4WY	N2RR
ZL1BYZ	ZP6CW	DL1VDL	J68HZ	K6UT	N3DAP
		EA5BYP	JA2CXF	K8OM	N4RF
112	111	F5BAR	JA4BXL	KM8AM	N6EE
A92IO	AA4U	G3LNS	K2ONP	KN4JX	N8AGU
DJ1RL	AB4GE	G8AJM	K4RDU	LU2DKT	NA5Q
DK5RL	AF4OX	HB9EFK	K5KA	N1BZ	OE1CP
DL5CL	DK2WH	HC1BI	K6MW	N4MEC	OK2BUZ
EA1JO	DK6ED	HL3GOB	KC2STA	N6RFM	OK3CQR
EI8IU	EV1R	I2BBJ	KE1F	N9TF	R0FA

RN4AA	OK2BVG	N4SC	K3FM	AI3Q	SM6EHY
RV6ARZ	S57AL	N4VN	K4KEW	DJ1MM	SM7BHH
SP3BQD	UR3CRO	N6NU	K4MF	DJ7PI	SP5JXK
SP6AXW	UT7UU	ON7PQ	K4VIG	DL2HX	UA3PFN
US5CB	UU5WW	OZ4AAL	K4YJ	DL8YRM	US2WU
VE3OI	V73AZ	PF7M	K5HK	DM5TI	UT2AB
W3KB	VQ9SS	PJ2/K8ND	K6UM	DS3HWS	VA2ZO
W4UCK	W1CWU	PY2DS	K7TJR	EA7SG	VA3IC
W6TDX	W2EQ	R6YY	K9EA	EU6MM	VE3EDY
W8VK	W2LE	RA6AF	KA2BZS	EW3LB	VE3MFA
W9CPV	W2NO	RD4WM	KH6KG/W5	G3BDQ	VE3VV
WB8ART	W3ICM	UA6LCN	KI0KB	G4AAW	W0UVC
WS1L	W4IR	UR1RWX	KK9H	G4PUQ	W1CTN
XE2YWH	W5JAY	UR2RGN	KW0A	G4VGO	W4AVY
YL1XZ	W8IW	VE1PZ	KZ1W	I0OSI	W4MZ
	W8OP	VY2ZM	N2SQW	IK2ANI	W5THT
106	WA4MYO	W1LY	N3ER	IZ0CKJ	W5VU
AA4FL	WA6TLA	W4OWY	N3TR	JA2GQO	W6SZN
AE2U	WC6DX	W5KI	N4TTE	JA2OLJ	WA4CEM
DJ6OZ	YL2GN	W6FF	N8MZ	JA8EJO	WB8BZK
DL1QQ	YU3EF	W9HBH	NJ9C	JH1DGQ	YO7APA
DL2NOM		WQ5W	NN3Q	JK1EXO	
DL3JSW	105	YU1NR	OH2OT	JM2RUV	102
EA3CCN	DF2PI		RA1QX	K2UVV	A6/RV6LNA
HA8DZ	DF8AA	104	RU3UR	K4LQ	CT4BD
IW3GJF	DJ3XD	9M2AX	RZ6DX	K5JUC	DK3QM
JA1VLK	DJ6KH	AD1C	RZ6LB	K7BTW	DL3DXX
JA2MNB	DL4ZAB	AH0U	SM5CCE	K8CCV	DL3NCR
JE6IGP	DL6JZ	CP8HD	SM7CQY	K9MUG	DL4CW
JG3HBO	DL6XK	CX3CE	SO5AS	K9XJ	DL4KUG
JG5RVQ	DO1CTL	DK3BK	UA9FGJ	KE1IU	DL5RDI
JH2KKW	ES1GO	DL4FAP	US5CAO	KJ4R	EI4DQ
JJ0NCC	G3YUV	DL7UPN	UT4EK	KJ7WY	ES5RW
JR0EQQ	HA8FW	E73D	UT7EC	KM9E	F6BWO
K0DEW	HI8RD	EA8ZS	UX4UM	KP4AA	FM5WD
K1PX	JA1BWA	F6AJA	UY0MM	KX2A	HB9AHL
K2CJ	JA1TAA	F8GB	VE3VHB	LX1DA	I8LWL
K4DSE	JA6VA	G3BRD	W0YBS	N0RU	IT9SFT
K5AM	JA7BME	HB9CIP	W1QA	N1HOQ	IZ4MJP
K5ZQ	JA8RRF	HK3O	W3DRY	N9BBQ	JA0HXV
K8JJC	JA9APM	IK0DWN	W3TMZ	N9SF	JA4EVN
KQ3F	JF1RYU	IW0HEX	W5CWQ	OH3GD	JA6OXT
N0JZ	K1DJ	JA1SDV	W5GJ	OK1DQT	JA7EPO
N2CW	K2XF	JA2FGL	W5ZO	OK2BQU	JA8OW
N2WLG	K5AV	JF1EGO	W6PH	OK3BRK	JH3AIU
N3XM	K7OX	JF6WTY	W7DR	OZ7JZ	JR1BAS
N8AID	K7PO	JK1BSM	WA0I	PA0GMM	K0EOO
NA5Z	K9RO	JO1WXO	WA9ETW	R9GM	K0YN
NI5M	KI5T	K0MD	YC0LOW	RA0FA	K1EDG
NS3L	KT2E	K0WK	YO5ODE	RA4HT	K1PTF
NU4Y	LZ1JZ	K1BG		RK3QY	K2LP
OE5CSP	N4JI	K1EP	103	RU3OW	K2TK
OK1AYU	N4NW	K2BLA	AG1I	SM3CBR	K3KG

K4AQQ	101	N2AJ	W9ZCL	K3TZV	ON4ANN
K4KAY	AA2VG	N5AQ	WA3EKL	K4FT	ON7EH
K4MS	AA3LX	N6WM	WB3HLH	K4KSY	ON7GB
K5ZO	AA4NU	N8AG	WC4H	K4SAF	ON9CC
K6DJ	AC5O	N9DR	WK9U	K4UQC	OZ1ZD
K6MI	AC9S	N9JCS	WR2G	K7VIC	PA0INA
K7BHM	CT1JGA	NE1F	YO2OXD	K8BZ	PA7RA
K7UA	D44BC	NK7C	YO6BHN	K8CR	R3PJN
K8BHZ	DH2FW	NX2X	YV4DYJ	K8CS	R9JX
KB9DAK	DK9WI	OA4TT		K8LE	RA3SD
KG8CW	DL1KS	OE3WQB	100	K9NZ	RA4LW
KJ6NZ	DL3ANK	OH3TY	9M6YBG	KB0EL	RA6XB
KN4KL	DL5JS	OK1PGF	A41ZZ	KC0V	RC2A
KW4BY	DM3ML	OK2BOB	AA4AK	KC4D	RL3BZ
KY6R	EA1WX	OK3EY	AB4VV	KC5LT	RN1A
LA3ANA	EU1TT	OK4MM	AC4VM	KD8BZY	RT5A
N5RZ	G3ZFC	ON4LG	AG4Q	KP4N	RU3GF
NZ3M	G4FJK	OZ5HP	AI2S	KQ5M	S53MJ
OH2EA	GM3WTA	PA4WM	DJ6OI	KS4XQ	S59DJK
OK1DTN	HB9NL	RA3AH	DL1HRN	LA6UL	S59SV
OK1JDX	IV3GOW	RA4P	DL1TPY	LA8W	SV1VJ
OK3CSQ	IV3KCB	RA4SD	DL9GTB	LU5OM	SV2DSJ
ON5UE	JA1VVX	RB7GG	DU7ET	LU5YF	UA3AKI
PA7TWO	JA2VMU	RK9F	EA2AAZ	LZ3YY	UA4PAY
PV8ABC	JA6TMU	RY6M	EA3ALD	MM0SJH	UA6CEY
PY2DO	JA7SFD	SM2DMU	EA8AXT	N0AH	UN6P
R2AB	JF1RPZ	SM7NDX	EC5A	N1KI	UR4CW
R3IS	JH3HGH	SP7JLH	EI9E	N1MD	UR4LRG
RU3UN	JH3PRR	SV1PL	ES5NC	N2DPF	UR8IDX
SM6WET	JI3KDH	UA0FDX	F6ECI	N2SG	US8UW
SP5MXZ	K0LW	UG6GAW	FM5GU	N2XQM	VE1RGB
T77V	K1YR	UR7CQ	G0VXE	N3AF	VE3OAT
UA1AIR	K2BX	UT1CC	G3OIL	N4CRI	VE7JKZ
UA1CKC	K3SEW	UT4IS	G4CGG	N4ZR	VP2VA
UA6HOF	K6AAW	UT7HA	GM3ZSP	N6PF	VR2PX
UA9MR	K6XJ	VE2OJ	I2VGW	N7DED	W0GYH
UA9UCO	K7AR	VE3XB	IK0HFO	N7TK	W0MU
UW7CN	K7IA	VK2GR	IK4MSV	N7TY	W1AN
VE2FYR	K8BN	W0QC	IK8UHA	N8IL	W1YRC
VR2MY	K8ZR	W1AW	IS0/YO3RA	N8NB	W2CCC
W1MRH	K9JU	W1FC	IW0BYL	N9ADG	W3BBO
W1PV	K9PG	W1GF	JA1BRK	N9PGG	W4HHN
W2LW	KC4PX	W2SF	JA1CPU	NA6O	W4OV
W2TX	KD3UY	W3HKK	JA4FSH	NA9Q	W5BK
W3EKT	KE1VT	W3WH	JA5DQH	NB3R	W7DT
W4ALF	KE4S	W4BUE	JA9CGW	NG7A	W8CNL
W5TO	KF7NN	W4PM	JO4CFV	NJ3I	W8FN
W7IUV	KN6J	W4WT	K0FLY	NN4SS	W8GDQ
WA0IDK	KQ1F	W7AV	K0XM	NU1T	WB4SON
WD8DSB	LA2GV	W7CB	K1NA	OE5JDL	WU2M
WS4Y	LZ1XZ	W8GB	K1NZ	OH4UI	YB1TJ
YO2IS	LZ2XF	W9DX	K2CBI	OK1DXD	YL2SM
ZL3RJ	N0STL	W9MAF	K2CYE	OK2PAZ	YO9FLD

ZP9MCE
ZS2DL