

## 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 31 Jul 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.

|                                                       |                                                               |                                                                 |                                                          |                                                                                        |                                                                     |
|-------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <b>344</b><br>W8LRL                                   | <b>328</b><br>UA4CC                                           | <b>317</b><br>W3LPL                                             | RA7A<br>RZ3AM<br>SP2FAX                                  | UA6A                                                                                   | <b>299</b><br>K4TEA<br>N1BUG<br>OE1WEU<br>SV1FJA<br>UX1UA<br>W7UT   |
| <b>341</b><br>EA8AK                                   | <b>325</b><br>K9UWA<br>UA2FF                                  | <b>316</b><br>K5RK<br>OH3SR<br>W2VO                             | <b>310</b><br>I4AVG<br>RA3CQ<br>SM5BFJ<br>SM6CVX<br>W5IZ | <b>304</b><br>DJ0MDR<br>GM0GAV<br>SM3GSK                                               |                                                                     |
| <b>340</b><br>K1ZM                                    | <b>324</b><br>EY8MM<br>K2TQC<br>K4PI<br>OH2BO<br>S50A<br>W1NG | <b>315</b><br>IK4WMA<br>N1DG<br>PE5T<br>S50U<br>W1JR            |                                                          | <b>303</b><br>F5LGE<br>GM3YTS<br>JA1BK<br>JA4LKB<br>K1UO<br>RU3DX<br>YU1FW             | <b>298</b><br>9A2AJ<br>DF2UU<br>IK2DFZ<br>OE6IMD<br>OZ3PZ<br>SM5CEU |
| <b>339</b><br>W4DR<br>W4ZV                            |                                                               | <b>314</b><br>IK4GME<br>NX4D<br>OK3GU<br>OZ1LO<br>RW2A<br>UA4CR | <b>309</b><br>I4EWH                                      | <b>302</b><br>DL4MCF<br>SV8JE                                                          | <b>297</b><br>DK5PR<br>JA2JPA<br>N4CC<br>OM2XW<br>RA3DX<br>W0FLS    |
| <b>335</b><br>OH2BU                                   | <b>323</b><br>SP5EWY                                          |                                                                 | <b>308</b><br>IK4MGP<br>IV3PRK<br>K4SV<br>K8GG<br>UT3UA  |                                                                                        |                                                                     |
| <b>334</b><br>N4WW                                    | <b>322</b><br>UX0UN<br>W3UR                                   | <b>313</b><br>GM3POI<br>OE3GCU<br>OG2M<br>OZ7YY                 | <b>307</b><br>DJ7MI<br>N4RJ<br>OH5VT<br>VE3EJ            | <b>301</b><br>DL9KR<br>F6BKI<br>LZ2JE<br>N1RJ<br>N3XX<br>SP3EPK                        |                                                                     |
| <b>332</b><br>UR0MC                                   | <b>321</b><br>WB9Z                                            |                                                                 |                                                          |                                                                                        | <b>296</b><br>DF3GY<br>F5NTV<br>G4PWA<br>ON5NT<br>RY9C<br>W1JZ      |
| <b>331</b><br>K5UR<br>LZ2DF                           | <b>320</b><br>K8MFO<br>SM4HCM<br>W8UVZ                        | <b>312</b><br>OH1MA<br>S54E                                     | <b>306</b><br>EA6SX<br>K4CIA<br>SM0AJU<br>WT3Q           | <b>300</b><br>G0JHC<br>G3KMA<br>I2ZFD<br>JA4DND<br>JA4LXY<br>PA3FQA<br>SM3EVR<br>VA3EF |                                                                     |
| <b>330</b><br>AA1K<br>HA0DU<br>OH1XX<br>R4GM<br>UT7QF | <b>319</b><br>N0XA<br>SM4CAN                                  | <b>311</b><br>DF3CB<br>DJ6RX<br>DJ9KG<br>G3PQA<br>KJ9I          | <b>305</b><br>CT1EEB<br>JA7NI<br>K4ZW<br>N4IS<br>NN4T    |                                                                                        | <b>295</b><br>K3UA<br>SV8CS                                         |
| <b>329</b><br>K3UL<br>UA4HBW                          | <b>318</b><br>4X4DK<br>UT5UGR<br>W9ZR                         |                                                                 |                                                          |                                                                                        | <b>294</b><br>DL1AMQ<br>JH2FXK                                      |

|                                                                                                               |                                                                                                 |                                                                                      |                                                                                       |                                                                                                     |                                                                                            |
|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| LA5HE<br>RJ3AA<br>WD5COV                                                                                      | <b>287</b><br>DL1RWN<br>G3XTT<br>N2QT<br>RK4FD<br>VA3DX<br>W4PK                                 | K1CP<br>S59Z<br>W4TO                                                                 | SP6AEG<br>UW2ZM                                                                       | <b>267</b><br>LU8DPM<br>RZ3DX                                                                       | <b>260</b><br>EA5BM<br>K1LT<br>K4DY                                                        |
| <b>293</b><br>JH4UYB<br>N0TB<br>S58T                                                                          | <b>286</b><br>DJ2YA<br>IK1GPG<br>K3SX<br>N3SL<br>PA0WRS<br>UA3AB<br>UT7UW<br>W8AV               | <b>280</b><br>EA6NB<br>SP6HEQ<br>YO3APJ                                              | <b>274</b><br>CT1EKY<br>G3TXF<br>K1ZZ<br>KF2O<br>W6UB                                 | <b>266</b><br>G4OBK<br>NR1R<br>R3LA<br>W8TE<br>W8XD                                                 | <b>259</b><br>DF4PL<br>F6GCP<br>G3ZSS<br>I1FQH<br>R9FM                                     |
| <b>292</b><br>G4BWP<br>JR2KDN<br>OZ1BTE<br>SM5AQD<br>SP3IBS<br>SV1AOZ<br>W3YX<br>W8TOP                        | <b>285</b><br>G4CCZ<br>UR5WA                                                                    | <b>279</b><br>IK4DRY<br>JR7VHZ<br>N2TK<br>N5DG<br>SM6CNN<br>SP5CJQ<br>UA6MF<br>UX1AA | <b>273</b><br>IK8HJC<br>JA8ISU<br>K2CL<br>K5BG<br>MD0CCE<br>RA3DA<br>SM6CCO<br>UA3DPM | <b>265</b><br>AA4V<br>AA6YQ<br>AA7A<br>EI7BA<br>K4XP<br>RW0LT<br>SP5DIR<br>SV8BHN<br>W1GL<br>YO5BRZ | <b>258</b><br>KW9A<br>N2NL<br>RN3CT<br>VE3QAA                                              |
| <b>291</b><br>9A7V<br>I5NPH<br>IZ0AEG<br>KD9SV<br>R7NW<br>SM3NRY<br>SM6CMU<br>SP3E<br>UA3LAR<br>UT7UJ<br>W5ZN | <b>284</b><br>K5XI<br>SP3DV                                                                     | <b>278</b><br>DK0EE<br>F6BEE<br>IK6DLK<br>JA3FYC<br>K5DU<br>KG4W<br>RU3FM            | <b>272</b><br>9A2EU<br>DL1DUL<br>DL2OE<br>OH1LEU<br>SP6CIK                            | <b>264</b><br>IK2YCW<br>K7ZV                                                                        | <b>257</b><br>K1GUN<br>N8TR<br>W9YSX                                                       |
| <b>290</b><br>UA3AKO                                                                                          | <b>283</b><br>DL7VEE<br>JA5EXW<br>JH4IFF<br>K4SO<br>N7NR<br>NA0Y<br>NO3M<br>R3OK<br>SM6DHF      | <b>277</b><br>AA4MM<br>DJ9VA<br>F6AOJ<br>HB9AMO<br>IK5BAF<br>ON7TK<br>SP9DWT         | <b>271</b><br>EU7A<br>G4GED<br>JA5AUC<br>OZ1CTK<br>SM5KNV                             | <b>263</b><br>IZ1ANU<br>K9OW<br>KX4R<br>LA5IIA<br>N3NT<br>W2SM<br>W3AP                              | <b>256</b><br>9A5CY<br>JA5BZL<br>JH1GZE<br>K1QX<br>K5VRX<br>K8FL<br>PA7MM<br>W1TSP<br>W3DF |
| <b>289</b><br>JA3ONB<br>K0KX<br>K4WM<br>N8DX<br>RX4HZ<br>US4EX                                                | <b>282</b><br>DL1YD<br>I0WDX<br>K8KS<br>K9CT<br>N2LT<br>NJ6P<br>SM6CTQ<br>UY5ZZ<br>W0BV<br>W2YC | <b>276</b><br>DK5WL<br>G3LZQ<br>N8RR<br>N9IW<br>OK1AWZ<br>VE2Tzt                     | <b>270</b><br>AA1V<br>LA3MHA<br>OE5KE                                                 | <b>262</b><br>G0DQS<br>IK5HHA<br>KR9U<br>N5KD<br>W1YY                                               | <b>255</b><br>IV3ODE<br>K4QL<br>KY7M<br>N2MF<br>R5AJ<br>UX0FF<br>VK4MA<br>W3KX<br>W5OZI    |
| <b>288</b><br>CT1APE<br>HB9BGV<br>PA3GCV<br>SL0ZG<br>SP7VC<br>UA4LY<br>US5WE<br>W0JX<br>WK3N                  | <b>281</b><br>DF2PY<br>HB9BIN<br>JA2PJC                                                         | <b>275</b><br>9A1CCY<br>F5NBU<br>I2AOX<br>IK4CIE<br>K2UO<br>K4IQJ<br>OH3BU           | <b>269</b><br>K6ND<br>KD5M<br>RV3LO<br>W1ZC                                           | <b>261</b><br>9A4T<br>DL9YX<br>K2EK<br>K5KC<br>N6SS<br>NO8D<br>SP1S                                 | <b>254</b><br>N0AT<br>OM3DX<br>WA4FFW                                                      |
|                                                                                                               |                                                                                                 |                                                                                      | <b>268</b><br>DL5DSM<br>G3WPH<br>K8PT<br>RA3XDX<br>SP9JZU<br>W1MK                     |                                                                                                     | <b>253</b><br>5B4AGN<br>AA1QD                                                              |

|                                                                                                                   |                                                                                     |                                                                                                                         |                                                                                                     |                                                                                                        |                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| K5ESW<br>S58Q<br>UA1OMS<br>W0YG                                                                                   | NN4X<br>NO2R<br>R7IA<br>WB3AVN<br>YO9HP                                             | N5TY*<br>N7RT<br>OE2LCM<br>OK1DWJ<br>SP5GRM<br>UA3TT<br>VE1YX<br>VE3NH                                                  | <b>236</b><br>AB4I<br>AC4G<br>K1JO<br>K5EK<br>K9NR<br>K9ZO<br>KC7V<br>OK2ZI<br>OZ4O<br>SP8AJK       | NI6T<br>UA3AP                                                                                          | I3BUI<br>JA6BZI<br>JF2KOZ<br>JR6EZE<br>K9FD*<br>N6JV<br>ON4GG<br>US0SY<br>UT5JAJ<br>VE6WZ<br>W0VTT                                |
| <b>252</b><br>EA1DR<br>IV3YYK<br>JA2VPO<br>JF2MBF<br>JG3QZN<br>JQ3DUE<br>ON4AOI<br>PA4VHF<br>R5DT<br>S52F<br>W3UM | <b>246</b><br>DJ2TI<br>F2JD<br>JF8QNF<br>N6TR<br>TF4M<br>W2TQC<br>W5XZ              | <b>240</b><br>EA6ET<br>G8VR<br>JA5MHD<br>JR3GWZ<br>K0JUH<br>K1FZ<br>K1ZG<br>K9OT<br>KA9CFD<br>LA2XPA<br>UR5MID<br>VO1NA | <b>235</b><br>CX6VM<br>EA6VQ<br>JH4ADV<br>K3SWZ<br>N6DX<br>OK1CF<br>R7DX<br>VE3XN<br>WA7NB<br>WA7NS | <b>230</b><br>DF6PB<br>JA1CMD<br>KD0Q<br>N8JV<br>SM3NXS<br>W4GF<br>W4VQ                                | <b>225</b><br>A45XR<br>JH7PFD<br>K1MM<br>K5AB<br>K9FD/KH6*<br>N4CH<br>RA3QK<br>RV1CC<br>RW3XZ<br>SP3CGK<br>SP8NR<br>VA5DX<br>W7KW |
| <b>251</b><br>DJ7RD<br>DL9RT<br>I1EIS<br>JH0BBE<br>K9NW<br>N4II<br>PY2RO<br>W5UN<br>W7LR                          | <b>245</b><br>DL4CF<br>JA1GV<br>K2FF<br>N9US<br>RL9F<br>RY7G<br>W9XY                | <b>239</b><br>K0KT<br>K1DG<br>K1HTV<br>KH6AT<br>LY3UM<br>NV9L<br>RN3QN<br>RU3QR<br>SV1ELF<br>SV1RK<br>UW5ZM             | <b>234</b><br>AJ6T<br>IZ8FFA<br>JA0FSB<br>K1AR<br>K4UTE<br>KF0QR<br>PY1BVY<br>S51DI                 | <b>229</b><br>CT1FJK<br>DJ4AX<br>JA8FKO<br>JI1BEX<br>OE5NNN<br>RO7T                                    | <b>224</b><br>MM0EAX<br>N0AV<br>N8BM*<br>SP5INQ<br>SP7GAQ<br>VK6VZ<br>W2RQ                                                        |
| <b>250</b><br>HB9RG<br>NQ1K<br>OZ8BZ                                                                              | JA1HGY<br>JA7QVI<br>ON4IQ                                                           | <b>238</b><br>DL8WN<br>IK0XEZ<br>IZ1LBG<br>JA0DAI<br>RA0FF<br>VO1HP<br>W3LL                                             | <b>233</b><br>DJ5FI<br>K0CS<br>K2UU<br>KA7T<br>SK3PY<br>UA4HAU<br>VA2WA<br>W1TC<br>W7AO             | <b>228</b><br>AF9H<br>AI0O<br>E72A<br>K4HB<br>N2WK<br>OH2BEN<br>VE3DZ<br>WB6RSE                        | <b>223</b><br>AB0X<br>DJ8NK<br>HA7TM<br>JH2TPI<br>RT6T<br>SV2JAO<br>UR5FEO<br>ZS4TX                                               |
| <b>249</b><br>AB3CV<br>AI9L<br>JR3IIR<br>K9RX<br>SP5DRH                                                           | <b>243</b><br>DK2JX<br>DK3DG<br>IK0MHR<br>ON4ATW<br>S57A<br>SV8CKM<br>W9RPM<br>WX4G | <b>237</b><br>DL7MAE<br>IW1ARB<br>NI0G<br>OM4EX<br>UR5EDX                                                               | <b>232</b><br>EA1N<br>FK8CP<br>JA8EAT<br>JG1ULJ<br>JH1HGC<br>K2AZ<br>K4XL                           | <b>227</b><br>DL7HU<br>ES1RA<br>IK0HBN<br>IK6FWJ<br>JA1UQP<br>JA2NDQ<br>JA9CHI<br>K1FK<br>K3NW<br>W9BF | <b>222</b><br>IV3JVJ<br>K3SV<br>K6EID<br>K8FH<br>K8ZTT<br>N5AW                                                                    |
| <b>248</b><br>K3WW<br>K5RX<br>SM3VAC<br>SV8GFW<br>T77C<br>UT9FJ<br>W9NGA                                          | <b>242</b><br>EA4KD<br>KG7H                                                         |                                                                                                                         |                                                                                                     | <b>226</b><br>DL5WW                                                                                    |                                                                                                                                   |
| <b>247</b><br>K0IEA<br>K6XT                                                                                       | <b>241</b><br>JA0CRI<br>JA1SYY<br>JA3EMU<br>K5ZK<br>N4XM                            |                                                                                                                         |                                                                                                     |                                                                                                        |                                                                                                                                   |

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|-----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| N5JR<br>N8PR<br>N9BX<br>SM0CCM                                                                                              | ON6YH<br>UA3AGW                                                                                                        | WS9V                                                                                                                                  | K2FU<br>K5RT<br>N5ORT<br>RU3ZX<br>UN5J<br>UY1HY<br>W6PJ<br>W9EWZ                                                             | N4QS<br>N7FU<br>UA0SR<br>US6EX<br>W2HUV<br>WD8PKF<br>WF4U<br>WI8A                                                                                                                                  | <b>200</b><br>AG4W<br>G0OIL<br>JA1GTF<br>JH2RMU<br>K1GE<br>K1GG<br>LA5YJ<br>RW4NN<br>RW7M<br>UY0ZG<br>W0DD<br>W1NT<br>W3GG                  |
| <b>221</b><br>JA2WYN<br>JJ3PRT<br>K4MWB<br>K8SIX<br>N6VR<br>W1ZK<br>W6JRY<br>WS6X                                           | <b>216</b><br>JA6LCJ<br>JA9PPC<br>K5EJ<br>N4PQX<br>N5UL<br>OE1ZL<br>RZ0AF<br>W0GJ<br>W6XA<br>YO7LCB<br>YU3AA<br>YV1DIG | <b>212</b><br>AA9A<br>DL9GFB<br>F6DAY<br>K4MQG<br>K8ZH<br>KE9I<br>KG6I<br>N1ZZ<br>N4MM<br>NX0I<br>OZ1AXG<br>SM5CZQ<br>W1ECT<br>WB9CIF | <b>207</b><br>K1DT<br>K1LPS<br>K3JT<br>K8EUR<br>N9AU*<br>PY2BW<br>W0LS                                                       | <b>203</b><br>AA5AM<br>JA2XYO<br>JE1PNX<br>K4XO<br>K9MMS<br>KK2I<br>OH1TV<br>PA0A<br>R6AF<br>W7DO<br>W8GC                                                                                          | <b>199</b><br>DK2LO<br>G0BNR<br>HB9DDO<br>JA2DPC<br>K6GXO<br>KB8VAO<br>N4DW<br>W1TO<br>YO2DFA                                               |
| <b>220</b><br>AG8B<br>DK2NG<br>HB9LCW<br>HL5IVL<br>JR4OZR<br>KA1R<br>N1LN<br>VE3EXY                                         | <b>215</b><br>AD5A<br>IZ8FWN<br>JH0INP<br>K3JGJ<br>N7JW<br>RA1QD<br>W0UO<br>W2LK<br>W6YI                               | <b>211</b><br>EA1RT<br>IK4DRR<br>JA4DEN<br>K3WA<br>RU3SD<br>WA5VGI                                                                    | <b>206</b><br>IK0IOL<br>JA3PIS<br>K2VV<br>K3LR<br>K5AQ<br>K5MC<br>K8AC<br>KG9N<br>N8DJX<br>PY2XB<br>SM6BZV<br>US0KW<br>VE3BW | <b>202</b><br>DL1MGB<br>DL2KQ<br>DL9DRA<br>JA2JNA<br>JA3CSZ<br>JA5AQC<br>JH3VNC<br>JI2KXK<br>K2NV<br>K9YY<br>LY1G<br>N5ZM<br>N7KA<br>OK1DOT<br>R9TO<br>RA3S<br>SM2OAN<br>UA9FAR<br>WA2HZO<br>ZL3IX | <b>198</b><br>DL1ROJ<br>G3UJE<br>G4BUE<br>IT9JNR<br>RX3APM<br>W8HB                                                                          |
| <b>219</b><br>IK3VUU<br>JA2FBY<br>JA2FJP<br>JF3KON<br>KV7K<br>LA7GIA<br>LB8DC<br>OE8RT<br>RA3WDK<br>SP4K<br>UT7UV<br>WA2UUK | <b>214</b><br>DL7BA<br>HL3IUA<br>IZ8VYU<br>JA2JW<br>K4NA<br>LA4GHA<br>LA7JO<br>OK1DX<br>RN7G<br>W4NL                   | <b>210</b><br>I8SAT<br>JA7MSQ<br>JJ2LPV<br>UW7LL<br>W7JW                                                                              | <b>205</b><br>F6EXV<br>I4KDJ<br>JA3AAW<br>KA9FOX<br>LA7HJA<br>W8UN<br>WB8ZRL                                                 |                                                                                                                                                                                                    | <b>197</b><br>G3SNN<br>I5KKW<br>IK0FVC<br>JE1BMJ<br>JH2UVL<br>K8NVR<br>OE4PWW<br>OE5FIN<br>ON4CD<br>RZ6FA<br>UA0SC<br>UT5EL<br>W0FS<br>XE2X |
| <b>218</b><br>DJ4PI<br>DK0PM<br>IK1YDB<br>JA8CDT<br>K0EU<br>K5UO<br>UT4MF<br>W5PJR                                          | <b>213</b><br>DF2IS<br>EI3IO<br>HA1RW<br>JA2IVK<br>JF6DSZ<br>K1ST<br>NA2M*<br>RU4SO<br>W0LYI<br>W1FJ<br>W2WG<br>W3YY   | <b>209</b><br>DL5CF<br>DL9MRF<br>EU1KY<br>HB9CXZ<br>HB9DDZ<br>JA0UUA<br>N9LB<br>VE1DX<br>VE3LYC<br>W0ZR<br>W7KNT<br>W9OO<br>WP4U      | <b>204</b><br>DJ5AV<br>EA5KA<br>F4BKV<br>IK7NXM<br>JA9NFO<br>K4JJW<br>K9US<br>KK4SI<br>LX2A<br>N4NX                          | <b>201</b><br>CU2DX<br>DL1EJA<br>JF1PUW<br>JO7WXN<br>K3HP<br>W0MHK<br>W2IRT<br>W5TCX                                                                                                               | <b>196</b><br>4Z4DX<br>AA4HP                                                                                                                |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| IK4PLW     | UA0CA      | AB4IQ      | JF1NZW     | <b>179</b> | SM5FUG     |
| JA3RAR     | W9MU       | CT1FMX     | K4HGX      | CT1FPQ     | W4BP       |
| JA4PXC     | WA2VYA     | JA1KQX     | K5KLA      | IT9ELD     | W4GD       |
| K8PO       |            | KB0EO      | KB4ET      | IW0SAF     | YO7NE      |
| KP2A       | <b>192</b> | KB1EFS     | S57AC      | JA9NLE     |            |
| ND0N       | 9A2NA      | KE9ET      | US8UA      | JR7BDQ     | <b>175</b> |
| RA9CMO     | JA7JWF     | KL0S       | W2YJ       | K0TT       | JA1CHN     |
| RZ4FO      | JH1RFR     | N8LJ       |            | K8WK       | JS3CTQ     |
| W2FCR      | K3FN       | RM0F       | <b>183</b> | N2PK       | K4DLI      |
| W4UM       | K4FJ       | W6SR       | IT9INO     | OK1MG      | K5GKC      |
|            | K5XX       | W8JV       | K4CN       | S57UN      | LA5LJA     |
| <b>195</b> | K7GM       | WA3C       | K8RRT      | SM4DDE     | N7IR       |
| EA3JL      | K9EU       | WA6YEE     | K8VC       | SV3FUP     | N7XR       |
| EA5RM      | KF7PG      |            | N9MB       | W8KEN      | PE1L       |
| G3ZEM      | N4DB       | <b>187</b> | NN2L       |            | SP1MGM     |
| JA0EOK     | OH2IS      | AJ1H       | ON6SAS     | <b>178</b> | TF3SG      |
| JA1EOD     | W3UA       | K0SR       | W2FP       | 4Z5CX      | VE3FF      |
| JH1QAX     | W3YQ       | K6SRZ      | W8NW       | EA3CJ      | W8HC       |
| JN7FAH     | W8LGJ      | KN5O       |            | JA4MRL     | WX0V       |
| K3PA       |            | LA0FA      | <b>182</b> | K2UR       |            |
| K7SO       | <b>191</b> | N2NS       | DJ9ON      | NE0U       | <b>174</b> |
| K9RT       | CT3MD      | OK1CZ      | DK3UA      | SM7DLK     | 4Z5MU      |
| KF8UN      | JA1ANR     | SM0NJO     | HK3W       | SV1JG      | JA0GJJ     |
| N1SV       | K0JGH      | W7AWA      | JA1SHE     | W6NWS      | JA1PPW     |
| NK1K       | K8FC       |            | JA3ENN     | W7MEM      | JA2XW      |
| W5ZG       | K9LA       | <b>186</b> | N3OC       | ZS1LS      | JA7MOL     |
| W9OP       | NE1B       | 9A8A       | UR3EO      |            | JF7DZA     |
|            | RK2FWA     | IK2QPR     |            | <b>177</b> | JK1OPL     |
| <b>194</b> |            | JA8DNV     | <b>181</b> | 9H1SP      | JR6PGB     |
| K4KDX      | <b>190</b> | K0BJ       | DK3WW      | AE5E       | K1KI       |
| K9JF       | IZ8XQC     | K7LAY      | JA2BDR     | CT1GFK     | K2KA       |
| KB9LIE     | JA1DUH     | W1YM       | JN4MMO     | IK4ADE     | K3AJ       |
| LA7AFA     | JA1MCU     | YL2TW      | K2EP       | K3WC       | K4TR       |
| SM7GIB     | K0BBC      |            | LZ2ZG      | K4RG       | K4WS       |
| W2LO       | K2TE       | <b>185</b> | VE3OSZ     | K9NU       | N1EN       |
| W4FC       | K9KU       | AB6QM      | W9AJ       | SM6DHU     | OE1WHC     |
| WD8JJA     | KM1D       | CT1EAV     |            | W2OR       | RN7F       |
| WN6W       | N4XU       | EA6BF      | <b>180</b> | W5LT       | UA3LNM     |
|            | N5GH       | G3KWK      | DM2DXA     | W7FI       | W8UV       |
| <b>193</b> | SP2LNW     | IK3SWB     | DM3VL      | WB7B       | W8VVG      |
| CT1IUA     | VE7VV      | JA2LCP     | EA8JF      |            | WT8C       |
| DF2GH      | WE9R       | K5ZD       | JE2URF     | <b>176</b> |            |
| DK1FW      |            | LA3WAA     | K6SSS      | EU1AB      | <b>173</b> |
| DL5ZB      | <b>189</b> | N4TJ       | K7BG       | I6FLD      | 5B4ALJ     |
| DL6ZXG     | 9A2F       | N5UR       | LA9AJA     | JA0DET     | I1JQJ      |
| EA3WD      | EA8PP      | OE2BZL     | N1RR       | JA5IU      | JA9TWN     |
| HA5BSW     | FM5CD      | SP3FAR     | N4AH       | JA6BJV     | JG0CQK     |
| JA1XEC     | JA0VSH     | SV1DPI     | ON5FP      | JA8KSF     | K1NTR      |
| K4ODL      | SP7HOV     | UA9CBO     | UT2UB      | JL1SAM     | K4XR       |
| N5LZ       | UA7T       |            | W1RM       | K8MN       | K9YC       |
| N9EN       |            | <b>184</b> | W7BEM      | N5OK       | KA1J       |
| PA0LOU     | <b>188</b> | HA5WA      | W8TN       | OK1DWC     | N5FG       |
| RN1ON      | AA1ON      | JA2ZL      |            | RL3FA      | PY5EW      |

|                                                                                                                                                 |                                                                                                                                                                          |                                                                                                                                                   |                                                                                                                                                             |                                                                                                                                                                               |                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>172</b><br>EA7TV<br>G0BLB<br>G3NKC<br>IZ5MOQ<br>JA3FGJ<br>JG3IWL<br>K0DEQ<br>K1BD<br>K6FG<br>KJ0M<br>W3JX<br>W4FQT<br>WC4X                   | N4XX<br>N7US<br>UT8MM<br>UY5AA<br>W6RW<br>W7YAQ<br>WB3JFS                                                                                                                | JA9LJS<br>K1KA<br>K3KY<br>K4JLD<br>K4PB<br>K4WA<br>K4ZYU<br>RM3DA<br>W0DJC<br>W1RR<br>W8ILC<br>WA8TXT                                             | UR4CWQ<br>VE3CFK<br>W7AL                                                                                                                                    | W9RN<br>WX0B                                                                                                                                                                  | YV2IF                                                                                                                                          |
| <b>171</b><br>AA9D<br>DL6KR<br>G0EHO<br>HA9PP<br>JA6HUG<br>JR1TNE<br>K1NU<br>N0RN<br>N4OGW<br>N7RO<br>N9RC<br>RA3DNC<br>SV1LK<br>UN9L<br>WA9PIE | <b>168</b><br>G3MXJ<br>IK2EGL<br>JE7JDL<br>JF2UPM<br>K4XD<br>K5QY<br>K8RYU<br>KR4F<br>N4QQ<br>N8BJQ<br>PA7F<br>SP5GH<br>W4SVO<br>W6VX<br>W8OI<br>WA0MHJ<br>WA5YNB        | <b>165</b><br>DL7UCX<br>F6HDH<br>I2ZGC<br>IK0AGU<br>JE7RJS<br>JH7CFX<br>K5JZ<br>KK4CB<br>N4HB<br>N9FN<br>NY0V<br>RC9F<br>SM4CTT<br>SP6EQZ<br>W5BN | <b>162</b><br>4O3A<br>9A4W<br>F3AT<br>HB9TKS<br>IZ4DPV<br>JA6GIJ<br>JR5JAQ<br>LB6KC<br>N8MR<br>RW3RN<br>W0HT<br>W0TT<br>W1LW<br>W8WEJ                       | <b>159</b><br>JA4FKX<br>JH6QFJ<br>K4RO<br>OK2ZV<br>UN7JX<br>W3HKK<br>W6BJH<br>W7SX<br>WD5BJT                                                                                  | <b>156</b><br>AB9V<br>DL4MM<br>IZ8IEV<br>JO7HAM<br>K0QC<br>K8YSE<br>KS1J<br>N3RC<br>N3UA<br>N7WS<br>OE5RLM<br>UA3SAQ<br>VA3LX<br>W1YIF<br>W4TV |
| <b>170</b><br>DJ6TK<br>JA6JPS<br>JE3ENP<br>JF1WPB<br>JM1GYQ<br>K6ZZ<br>KI5BLU<br>N4PY<br>SP3GTS<br>SV3KH<br>W3IP<br>W9EVI<br>WA3AFS             | <b>167</b><br>DK5AD<br>EC3A<br>EI6FR<br>JA6VQA<br>K6KO<br>K8NK<br>K9MBQ<br>N0IJ<br>N3BNA<br>OH2BLD<br>PA3C<br>RA1AOB<br>RN9N<br>S51EC<br>VE6WQ<br>W1YW<br>WA4LOX<br>WC5N | <b>164</b><br>GU4YOX<br>HA7UW<br>HB9BZA<br>JA1RTX<br>JA7ZP<br>JH2SON<br>K1NJ<br>N5WA<br>RA3ZH<br>RN3OG<br>SV2AEL<br>W4DKS<br>W4NS*<br>WW3S        | <b>161</b><br>DK2GZ<br>DL6RAI<br>HB9DHK<br>JA1DOF<br>JH4ALY<br>JH4CPC<br>K1USA<br>K5GO<br>K8ND<br>LB2TB<br>N4GN<br>OH6RA<br>VK3HJ<br>YU2TW                  | <b>158</b><br>DJ4PT<br>DL1FKA<br>IT9DSZ<br>JA9APS<br>JH1TWT<br>JI1FXS<br>JI1NJC<br>JR1GJP<br>K5TT<br>K9GA<br>OZ1HX<br>RU6M<br>SM4EMO<br>W0SZ<br>W1OX<br>W2XL<br>W3GQ<br>W4QN  | <b>155</b><br>DL1RK<br>DL4SZB<br>HB0CC<br>JE3GRQ<br>K2LS<br>NE0DX<br>NW7E<br>SM6VR<br>W2XI<br>WE1P<br>ZS6EZ                                    |
| <b>169</b><br>IK0PEA<br>JA1ADT<br>JE2LPC<br>JR1IZM<br>K1LI                                                                                      | <b>166</b><br>4Z1UF<br>DJ4SO<br>HB9FMN<br>IV3TDM<br>JA1FNA                                                                                                               | <b>163</b><br>9A2JK<br>DJ9HX<br>JE2LUN<br>K7NN<br>K8TL<br>OK2QA                                                                                   | <b>160</b><br>AD5Q<br>DK1WB<br>DL1DA<br>IK0FUX<br>IW2FND<br>JA2EPW<br>JE2OVG<br>JF2XGF<br>JR7MAZ<br>K3MSB<br>NR4M<br>RU6L<br>UA0FZ<br>UX5UO<br>W1BR<br>W5XC | <b>157</b><br>AA4H<br>AC6DD<br>DL6MRS<br>EA5BY<br>G3TQZ<br>G4GIR<br>JA1GHH<br>JE2DZC<br>JH2QMT<br>JH7IAJ<br>LY5A<br>N5MOA<br>NE9Z<br>RU4UR<br>SM3PHM<br>SV8ZS<br>W2TA<br>W5GZ | <b>154</b><br>3V8SF<br>GM3PPE<br>HB9BUN<br>JA8NFV<br>JR3OEH<br>K0KVR<br>KR2Q<br>NX8Y<br>W1NA<br>W5DNT<br>WB0TEV<br>WS7L<br>YS1RR               |
|                                                                                                                                                 |                                                                                                                                                                          |                                                                                                                                                   |                                                                                                                                                             |                                                                                                                                                                               | <b>153</b><br>AA6AA<br>AJ9C<br>DF2RG<br>DL3ZA<br>G3TJW                                                                                         |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| HL2CFY     | W7CT       | JH1QDB     | N4GG       | JH0BQX     | VE6SV      |
| IZ3ENH     | W7RH       | K5VWW      | NA5C       | JR7WFC     | W0SEI      |
| JF1IRW     | WA1Z       | LA6OP      | RT0F       | K3PP       | W4NU       |
| JR9OPJ     | WA2BCK     | N2WB       | SM3DTR     | K4WZ       | W7IV       |
| K7SP       | WP4G       | N5XZ       |            | K6EME      | W8GNM      |
| K8VFX      |            | NE3F       | <b>144</b> | KK1W       | W8LWU      |
| N4TV       | <b>150</b> | W5FKX      | CU3EQ      | LA9VFA     | WO2T       |
| N5TW       | EA1AF      | W9JJB      | DL5CW      | MM0SAJ     | YL2MU      |
| N8II       | IV3RAV     |            | DL5KUA     | N2ZN       | YO9FNP     |
| R9OK       | JA1SVP     | <b>147</b> | E70T       | N7QT       |            |
| SM6CLU     | JA2NQG     | EA3GP      | EI6IZ      | NA4D       | <b>139</b> |
| SP5CCC     | K0RS       | F5PAC      | GM3ITN     | NQ7R       | DF7EE      |
| UT5UY      | K5TR       | IV3VBM     | HB9BYQ     | NY2NY      | DJ4XA      |
| WB8BPU     | K7LV       | JA1XQC     | I5MXX      | OK1DO      | DL5EBE     |
|            | K8AJS      | K7HP       | IT9GSF     | W2OO       | DL8OH      |
| <b>152</b> | KU4XO      | K8UT       | IV3DXW     | W5LUA      | DS1JFY     |
| EW2A       | N3QE       | KM1H       | IZ4GWE     | W5VQ       | JA1TMG     |
| JT1CO      | N9CO       | N1IBM      | JA3GN      | WA5POK     | J11DCW     |
| KQ4AV      | OE8SPW     | PC3T       | JE1FQV     | WB8CQV     | K3ANS      |
| KS3F       | SQ5EBM     | W1OP       | K0VSH      |            | K6AM       |
| N9OY       | SV1CNS     | W2KKZ      | KJ9C       | <b>141</b> | K8GI       |
| S55ZZ      | UA6YW      |            | N1IX       | AC9S       | K8RF       |
| UA6IGI     | W6DAO      | <b>146</b> | N3KK       | DL5MHQ     | KA8SYV     |
| UN7LZ      | WW2DX      | EU4A       | SM4OLL     | EW1BA      | KU0A       |
| UT5AB      |            | JA1HQG     | SM5CLE     | HB9FMT     | LA8WG      |
| VE6LB      | <b>149</b> | JA4DHN     | W4GE       | JA1PTJ     | OH1JP      |
| W1SKU      | DL7CX      | JA5XAE     | W5ADD      | JA2ATE     | OK1MP*     |
| W1VT       | HB9HFN     | JH1GNU     | W7ZI       | JA9RRH     | SM5CBM     |
| W6RLL      | IK4FNF     | K1CA       | W8RLS      | JH1HHC     | SV8ZC      |
| W7AJ       | JL1ARF     | K5KV       | WC5M       | JL1UXH     | W0SD       |
| WB3CQM     | K3RA       | K5SM       | WD5T       | JR2LJO     | WA8WV      |
|            | K3TN       | K6NR       | YO3CD      | K2RW       |            |
| <b>151</b> | K4YYL      | K7WP       |            | N8OC       | <b>138</b> |
| AA7G       | K8ME       | N7BT       | <b>143</b> | NJ3K       | DK8MCT     |
| CU2AP      | K8ROX      | RU0SN      | DL1DUO     | OE6VIE     | DK8YY      |
| DK2OY      | K9MK       | W1IZL      | DL6EN      | SV3FUO     | EI9FBB     |
| EI9JF      | R8TX       | W1ZT       | HS0ZEE     | W2CG       | F6DDR      |
| F3SG       | SM6CUK     |            | K7CMZ      | W3BW       | IK8EPC     |
| HB9SLO     | UW7UA      | <b>145</b> | K7CW       | W4JVN      | JA3OOK     |
| JA2VQF     | W0GG       | AF4HX      | N2RJ       | W4VIC      | JF3LOP     |
| JA6BEE     | W2/CT1GIF  | HI3T       | N2WM       | W4WT       | JH7RXU     |
| JH1NYM     | W7HPW      | I0JBL      | N5UW       | W8HW       | K1RO       |
| JR1XIS     | WB8B       | IZ0RVI     | N6PAT      | ZS1C       | K2RET      |
| K2AX       | WD5K       | JE6TSP     | N6PSE      |            | KJ6P       |
| K2FW       | WS5W       | JJ3HGJ     | NN4R       | <b>140</b> | LB5WB      |
| KD0PO      | YO3DDZ     | JK1AJX     | W0IZ       | 9A1CAL     | ON6AA      |
| N5JB       |            | JN1BMX     | W6QUV      | K5WK       | OZ8X       |
| OK1ATP     | <b>148</b> | K1OA       | WB8ZRV     | K6KLY      | RW4CY      |
| RD3A       | CT1FCX     | K3VAT      | WD9DZV     | KF8DX      | UN7JID     |
| RU3A       | DK2CC      | K4OY       |            | N4XP       | V51B       |
| S54A       | F5CQ       | K8BL       | <b>142</b> | OH6NIO     | W1GD       |
| SP7AWG     | F5LVL      | KF6HI      | I5HOR      | ON7DR      | W2YE       |
| SV9AHZ     | G4FTC      | N1CGP      | IT9BLB     | UN1L       | W4YV       |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| W7OM       | R7LP       | W2QO       | R9MJ       | IT9ZZO     | W3FOX      |
| <b>137</b> | RN3RQ      | W5AJ       | R9SA       | JA2AHH     | W3MF       |
| EA1YO      | SM3LGO     |            | W8DCH      | JA2KSP     | XE1KK      |
| GM3YOR     | SM5CZK     | <b>132</b> |            | JA9AA      | <b>126</b> |
| HB9CQK     | SP3XR      | AA4NC      | <b>130</b> | JE1LFX     | DJ8WD      |
| HB9RYZ     | SV5DKL     | AB9M       | DF9ZW      | JH4GJR     | DL9FCY     |
| IZ2FOS     | W1DIG      | AD6W       | E73M       | K0FF       | F8BPN      |
| JA3APU     | W1EQ       | IK3VBB     | EI2JD      | K3XA       | G4IUF      |
| JA4OK      | W2GD       | IT9RDG     | G7VJR      | K4JAF      | IZ7EVZ     |
| JH4JNG     | W4BUW      | JA2KVD     | HK0HEU     | K4SE       | JA1XCZ     |
| K2QMF      | W4MBD      | JA6CBG     | JA2FBC     | K6LPO      | JA7KY      |
| K8NS       | W4RFZ      | K6YUI      | JG1DUZ     | KG7CW      | JH3CUL     |
| LA9GX      | W6JTI      | K9ZM       | J14POR     | KM4NS      | JJ1DWT     |
| RA3CO      | WE4S       | N6HY       | K2MYR      | N5KM       | JN1RQV     |
| RG7G       | <b>134</b> | OZ2RH      | K3NK       | OH1ZK      | K2ZD       |
| UU1JA      | CT3HF      | SM4BZH     | K6SIK      | OZ1IKY     | K4JKB      |
| W1ITU      | IK4DCS     | SM6BGG     | K7LFY      | R9SG       | K4XU       |
| W5ODD      | JA7LGE     | SP6M       | K8BCK      | S53X       | N8NA       |
| WB5JID     | K1TO       | VE3CRG     | K9GL       | S55DX      | OE3SGU     |
| <b>136</b> | K1ZN       | W4AXL      | KO8SCA     | SM3GQP     | OK3CQD     |
| E72U       | K3OX       | W4RBO      | NA4EA      | SV3DCX     | PA5TT      |
| ER0FEO     | KX4TT      | W4WM       | NO9E       | US8UW      | VE3CX      |
| HB9IQB     | N9MR*      | W5SL       | OZ2ABI     | VQ9LA      | VE7BV      |
| IK8CNT     | N9RS       | W6DR       | PY5EG      | W2WC       | W8MK       |
| JH4HMG     | NA5DX      | W7AH       | R3VA       | W4IS       | W8REW      |
| K0TV       | OE1TKW     | W7CD       | R5QA       | W6RKC      | W9ILY      |
| K4ZO       | PY5HOT     | W9FR       | R9AB       | ZS1A       | WB0O       |
| K7TM       | RG6G       | WB3D       | RU1AO      | ZS6UT      | WB2REM     |
| KR6C       | RX4HW      | XE2S       | S51NM      | <b>127</b> | WD4LBR     |
| OK1DW      | SM0BYD     | <b>131</b> | SP6JIU     | CT3KN      | YU1EXY     |
| SM5OJH     | UA0ACG     | DK7YY      | TA1CM      | HK1MW      | <b>125</b> |
| SP2BMX     | W4JKC      | G3UHU      | VE3DO      | IK2SGB     | 9A1AD      |
| UT3UZ      | YU1AM      | HS1NGR     | W2MPK      | JA1DDH     | AG1A       |
| UW8SM      | <b>133</b> | IV3KFB     | W9ZT       | JA1WLO     | GW3TMP     |
| W2OIB      | 9K2NO      | JA0AOO     | <b>129</b> | JA8RJE     | HK4SAN     |
| WB7QXU     | EU1U       | JA2TBS     | HA1RB      | JA9KRO     | IK5DNF     |
| <b>135</b> | IZ8DFO     | JH4ADK     | HB9AZZ     | JH3AIU     | JA4IYL     |
| 5B4MF      | JA7GLB     | JJ1TEA     | JA1NWD     | JS2LHI     | JA6VU      |
| DJ9ZB      | JA9AGN     | JM1FHL     | JA8JO      | K0RW       | JE1TSD     |
| F6FXU      | JR6FC      | K1UU       | K4TT       | K3TRM      | JE6UWU     |
| IK8GYS     | JR7FRW     | K5VIP      | K6XM       | KM3T       | JF2WXS     |
| IU0HDC     | K2CDJ      | K9DR       | LB7ZG      | N1AC       | JH1AGU     |
| JA7LMZ     | KS4YT      | KC2LSD     | N0YY       | N1GC       | JL1RUC     |
| JA8BNP     | KU2A       | KH2L       | N3KS       | OE8HIK     | K1HAP      |
| JA8JL      | OE1KM      | KM3V       | N3RR       | PA3EWP     | K5KG       |
| K1ZE       | ON4CAS     | KM4H       | W0YVA      | SK7AX      | K8DV       |
| K4ZRJ      | RA5BM      | N3MK       | W7QHE      | SP6A       | KA6BIM     |
| K7FL       | RV4LC      | N4QWZ      | W8MET      | SP7ASZ     | KI4WCQ     |
| K7XB       | UQ2PZ      | N5PHT      | <b>128</b> | W0CP       | LZ1XL      |
| NZ9R       | VE3WT      | N6RK       | AA4SC      | W0RT       | N2KA       |
|            | W0NFL      | ON4ON      | DM2RM      | W1OPD      | N3EN       |
|            |            | R0SR       |            | W3BG       |            |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| N4JT       | N4DWK      | N6HC       | W6RFL      | K8WVA      | UR9IDX     |
| N9RD       | N6MZ       | SV1AHX     | W7RN       | KD2T       | US1CT      |
| ND5S       | N9JV       | UQ1GWW     | WT4Q       | KD6UO      | VE3YF      |
| NW6S       | N9LQ       | UT4EO      | ZL4AS      | KG8CW      | W4ZRZ      |
| OE1AZS     | NA2P       | UU2JQ      |            | KV4AA      | W6SL       |
| RA0BA      | NA9RB      | VA3AYA     | <b>119</b> | LZ2HM      | W8ZR       |
| UU7JM      | S50B       | W0QQ       | AA3AZ      | N2MM       | WA2USA     |
| VE3UTT     | UA3DK      | W2GG       | AA4DD      | N4DJ       |            |
| W5DAW      | UR9QQ      | W3RJW      | AE3T       | PY2PA      | <b>116</b> |
| W8LMG      | UT3QU      | W6XI       | AJ4A       | RN3TT      | AJ4F       |
| W9CG*      | W1AO       | W9XX       | DK3GG      | SV9COL     | DL7URH     |
| WV4TN      | W4NF       | W9YE       | EW4M       | TA2RC      | EA5BRE     |
| YO2RR      | W8NJR      | WA1PMA     | G4DJJ      | VK4CAG     | HA7PF      |
|            | WB8K       | WY1G       | HB9AAQ     | W1KSZ      | IK0EIE     |
| <b>124</b> | XE1H       | XE1VIC     | HB9BCI     | W4DAO      | IK2OHG     |
| AA7XT      |            |            | I2TZK      | W4NJ       | IT9TQH     |
| J11DHY     | <b>122</b> | <b>120</b> | I4MKN      | W5JMW      | IV3HYD     |
| KD4POJ     | BA4RF      | 9A5F       | IU0LFQ     | W9FI       | JA1WTI     |
| NA2U       | G3NDC      | AA5JF      | JA3AZD     | WX3P       | JH3GCN     |
| PA0TCA     | JA1MRM     | AC9EM      | JA4XGC     | YO4AUL     | K1DC       |
| UA0BA      | K1BZ       | AL7TC      | JE2JMV     |            | K1RI       |
| VA7CRZ     | K1ESE      | DL2VWR     | JH6CDI     | <b>117</b> | K9FN       |
| VE1DUN     | K1YT       | FG5FR      | K3FRK      | 9Y4VU      | KT1V       |
| W2JU       | K2MP       | HB9BLQ     | K5UZ       | AA8CH      | KV1J       |
| W2RIJ      | K7ZA       | IZ0LKV     | K7EG       | AE0P       | NA9Q       |
| W3FM       | KR0P       | IZ5NFD     | K8KWT      | BH4IGO     | OZ1LCG     |
| W6CYX      | LA7WCA     | JA4EPE     | K9SG       | DL1DWT     | PA0JSE     |
|            | LA8PT      | JR3UIC     | N0KV       | G3PLP      | RV3ID      |
| <b>123</b> | N3NR       | JR6LLN     | N9UA       | IT9AAI     | TZ4AM      |
| AB1OC      | N9AW       | K2BA       | NT2A       | IT9DAA     | UA4PCM     |
| AC4TO      | NN7X       | K2HK       | NY7T       | JA1HQT     | W1ENE      |
| DL7JRD     | OZ3Y       | K3QIA      | OH5NG      | JA4FM      | W1WEF      |
| F4GTB      | RD4A       | K5JC       | OK1DT      | JA5FDJ     | W7GG       |
| G4WFQ      | UU4JMG     | K6FW       | R6FFB      | JA7GYP     | W7OEV      |
| G5LP       | VE6AX      | KA8ZPE     | SV1ACK     | JA7IC      | W8LRO      |
| HB0WR      | W2TB       | N4BAF      | W4HZ       | JM3GXU     | WQ5L       |
| IK2CHZ     | WA3I       | N4LR       | W8FIB      | JR2UBS     |            |
| IK3XJP     | WA7BNG     | N4TB       | WC2K       | K2BB       | <b>115</b> |
| JA0CRG     |            | N4UFP      | WP3R       | K3NF       | C6AGU      |
| JA1SJV     | <b>121</b> | N8PW       | XE1RCS     | K6PJ       | CU2CE      |
| JA3MHA     | AA6RR      | OE3EVA     |            | K8OOK      | DL9GOA     |
| JA6WJL     | DF1DB      | OZ2A       | <b>118</b> | K8QM       | G4XEE      |
| J14WAO     | DK1EI      | PZ5RA      | 5T5PA      | N2BJ       | G8BCG      |
| JK1EXO     | DK6CQ      | RL3BZ      | AB2E       | N4IR       | G8DX       |
| JR1EBE     | EI2GLB     | SP7ITB     | DL5OCE     | N6MB       | HA5UK      |
| K2PK       | HB9DHG     | SV1FKZ     | JA4FHE     | N8AA       | HK3PJ      |
| K3XO       | JA2HYD     | SV1IW      | J18DGO     | N8XI       | IW0HEX     |
| K4ZIN      | KD8RQE     | UR5IKN     | JN7DOS     | NY4G       | IZ7JVR     |
| K5GH       | KG9Z       | US0YA      | K3WGR      | OZ5HP      | JA2KNW     |
| K7UT       | N0OK       | W0RX       | K4CNW      | SM7BIC     | JA3NHL     |
| K9CS       | N1JP       | W2YR       | K5XM       | SP8HKT     | JG3LGD     |
| KV4T       | N3ND       | W3OA       | K7PI       | UA6J       | JH1RFM     |
| N2ED       | N4TL       | W4PRO      | K8LN       | UB3A       | K0GD       |

|            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|
| K0SD       | WA4CEM     | ZL1BYZ     | <b>111</b> | DL1VDL     | G3SVD      |
| K4CMS      | WA8MCD     |            | AA4U       | EA5BYP     | JA2CXF     |
| K4GHS      | WA9YYY     | <b>112</b> | AF4OX      | F5BAR      | K2ONP      |
| K4GK       | WN9O       | A92IO      | CU3AN      | G3LNS      | K4RDU      |
| K8YTO      | XE3ARV     | DJ1RL      | DG7RO      | G8AJM      | K5FZ       |
| LY4T       |            | DK5RL      | DK2WH      | HC1BI      | K5KA       |
| N0IRM      | <b>113</b> | DL5CL      | DK6ED      | I2BBJ      | K5KPE      |
| N4OA       | 9A1A       | EA1JO      | DL1HRN     | IK5RUN     | K6MW       |
| N5BO       | DJ5DT      | EI8IU      | EV1R       | IK8UHA     | KE1F       |
| N8KOL      | DJ9RR      | EW1DO      | F6ECI      | IZ0CKJ     | KZ5DX      |
| PA3AXU     | DL8CM      | G3XGC      | G4DBN      | J68HZ      | N1BZ       |
| RZ6MJ      | DL8DYL     | HB9CEX     | HL3GOB     | JA7EPO     | N2WLG      |
| UA1ANA     | G4AFJ      | HB9CRV     | JA1AUD     | JE2UFF     | N7TY       |
| UA1CGS     | HB9EFK     | HB9G       | JA1FGB     | JH1VHU     | N8NN       |
| UA6XT      | JA0GCI     | IK2ANI     | JA1NCZ     | K2BLA      | ND4V       |
| UN6T       | JA1OVD     | IU8FRE     | JE2EHP     | K3JRR      | NN4RR      |
| W4UCK      | JA4ITW     | IZ4DIW     | JE8TGI     | K3PH       | NU4I       |
| YL2CZ      | JH1ORA     | JA1SXR     | JF2WGN     | K4WW       | NX7U       |
|            | K0TPP      | JA4BXL     | K0FLY      | K6MI       | PY5CC      |
| <b>114</b> | K2HAT      | JA7BXS     | K5WAF      | K6VKO      | RW4UU      |
| AB4GE      | K8SL       | JR7TEQ     | K7ORK      | KB4MRX     | RW9QA      |
| BA4DW      | K9GWH      | K0JPL      | K9AJ       | KC2STA     | RX3AGD     |
| BA7IO      | KA4RRU     | K1EDG      | KM1R       | LZ1PM      | TG9NX      |
| CT3FN      | KH6DX      | K1EO       | KP4AA      | N2CG       | UB5ZAL     |
| CU3AK      | KI0G       | K1KO       | KZ0X       | N3HBX      | UT7KF      |
| DL6NB      | KT1J       | K4UAS      | LA0CX      | N3IQ       | VU2CPL     |
| F6CWA      | N7KO       | K8CC       | N4WJ       | N3JB       | W5WP       |
| G3SDL      | N9ISN      | KB2FCV     | N7BD       | N4KE       | WB5TUF     |
| HP3TA      | NA3F       | KI4DLS     | N9HF       | NC6K       | WN0L       |
| I5OYY      | NG0G       | KM1C       | NA1DX      | NK7C       | YV3AGT     |
| IK7YZG     | NI5F       | LA8HGA     | UR6QA      | NY4I       |            |
| JA4KDT     | NK5B       | N5ZC       | UT1UY      | RD9M       | <b>108</b> |
| JA5WIZ     | ON5UE      | N6MA       | VE6KC      | SM5BHW     | AI2Q       |
| JH6WMJ     | R7NA       | N6PE       | VE7CT      | SP9WZS     | AL7R       |
| K1RV       | RA4UN      | RU4SU      | VE7UF      | SV1VS      | DL6CNG     |
| K2DC       | RZ3AUL     | SM3DMP     | W0VHF      | UA3O       | ER1LW      |
| K3MD       | SM5ARL     | UA1ACG     | W1FO       | US7MM      | G3VAO      |
| K3OSX      | SP3EPG     | UA1CEI     | W4HOG      | W0UY       | HB9BAT     |
| K5CD       | SV1JFV     | UT6UD      | W4OX       | W3XY       | HB9FAN     |
| K5RJ       | SV2AVP     | VE7XF      | W5AQ       | W4DC       | IK0PRG     |
| KB8U       | UN7TW      | W1HEO      | W7VS       | W4NE       | IZ0BTV     |
| KZ4V       | VE3KI      | W2CVW      | W8KA       | W5ZPA      | IZ2EWR     |
| N1QY       | W2GW       | W2SKI      | W8MIL      | W6KK       | JA2MOG     |
| N2JJ       | W6BK       | W3UL       | W9RB       | WL7E       | JJ2PIK     |
| N3MN       | W8FAX      | W4VHF      | WA2BOT     | XE1FAS     | JK1MZT     |
| N4IQ       | W9DX       | W5VX       | WA2MUA     | YU7AU      | K1EP       |
| NU8Z       | W9HBH      | W6TC       | WB4TDH     | ZL3NW      | K1XM       |
| UA3FT      | W9VNE      | W8GEX      | WB9EEE     |            | K2CJ       |
| W0VX       | WA4DOU     | W8HMK      | YL3DQ      | <b>109</b> | K2KQ       |
| W3MR       | WB2HJV     | W9SE       | YO6HOY     | DF1KG      | K2MK       |
| W4TUN      | WB2UFF     | WA8OLN     |            | EA3GHZ     | K4WY       |
| W5VY       | WS4C       | WT9U       | <b>110</b> | EU4T       | K4YJ       |
| WA1FCN     | XE1RBV     | ZP6CW      | BA4MY      | F8EZE      | K6UT       |

|            |            |            |          |            |            |
|------------|------------|------------|----------|------------|------------|
| K8OM       | K3YBN      | JG3HBO     | DL6XK    | YU1NR      | NJ9C       |
| KM8AM      | K4MS       | JG5RVQ     | DO1CTL   |            | NN3Q       |
| KN4JX      | K4SAF      | JH2KKW     | ES1GO    | <b>104</b> | RA1QX      |
| LU2DKT     | K8LBT      | JH6PFY     | G3YUV    | 9K2OD      | RU3UR      |
| N4MEC      | K8ZR       | JJ0NCC     | HA8FW    | 9M2AX      | RZ6DX      |
| N6RFM      | KB9DAK     | JR0EQQ     | JA1BWA   | AD1C       | RZ6LB      |
| N9SF       | KE2R       | K0DEW      | JA1TAA   | AG4Q       | SM5CCE     |
| N9TF       | KZ1W       | K1PX       | JA4EVN   | AH0U       | SM7CQY     |
| NU4Y       | N2RR       | K4DSE      | JA6VA    | CP8HD      | SO5AS      |
| PA0ZH      | N3DAP      | K5AM       | JA7BME   | CX3CE      | UA9FGJ     |
| R5FY       | N4RF       | K5ZQ       | JA8RRF   | DK3BK      | US5CAO     |
| R7LA       | N6EE       | K8JJC      | JA9APM   | DL4FAP     | UT4EK      |
| RX6DX      | N8AGU      | KD9HL      | JF1RYU   | DL7UPN     | UT7EC      |
| S57J       | NA5Q       | KK8X       | JO4CFV   | E73D       | UX4UM      |
| SM6AOU     | OE1CP      | KK9H       | K1DJ     | EA8ZS      | UY0MM      |
| UX7UN      | OK2BUZ     | KQ3F       | K2XF     | EI9E       | VE3VHB     |
| UZ6LWZ     | OK3CQR     | N0JZ       | K5AV     | F6AJA      | W0YBS      |
| W2UB       | R0FA       | N2CW       | K7OX     | F8GB       | W1QA       |
| W3NRJ      | RN4AA      | N2SQW      | K7PO     | G3BRD      | W3DRY      |
| W4ZYT      | RV6ARZ     | N3XM       | K9RO     | HB9CIP     | W3TMZ      |
| W7ACD      | SP3BQD     | N8AID      | KI5T     | HK3O       | W5CWQ      |
| WA2ALY     | SP6AXW     | NA5Z       | KT2E     | IK0DWN     | W5GJ       |
| WA8MOA     | US5CB      | NI5M       | KX2A     | JA1SDV     | W5ZO       |
| WB8BZK     | VE3OI      | NS3L       | LZ1JZ    | JA2FGL     | W6PH       |
| WC1M       | VK3NX      | OE5CSP     | N2DPF    | JF1EGO     | W7DR       |
| WC6DX      | W3KB       | OH2OT      | N4JI     | JF6WTY     | WA0I       |
| WD9EQU     | W4MAY      | OK1AYU     | N4NW     | JK1BSM     | WA9ETW     |
| WW1WW      | W6TDX      | OK2BVG     | N4PL     | JO1WXO     | YC0LOW     |
|            | W8IW       | S57AL      | N4SC     | K0WK       | YO5ODE     |
| <b>107</b> | W8VK       | UR3CRO     | N4VN     | K1BG       |            |
| 4Z5LA      | W9CPV      | UT7UU      | N6NU     | K3FM       | <b>103</b> |
| DJ8ES      | WA0RVK     | UU5WW      | N7DR     | K4KEW      | AG1I       |
| DK3FB      | WB6CJT     | V73AZ      | ON7PQ    | K4MF       | AI3Q       |
| DL1QQ      | WB8ART     | VQ9SS      | OZ4AAL   | K4VIG      | DJ1MM      |
| DL2CHN     | WS1L       | W1CWU      | PF7M     | K5HK       | DJ3GZ      |
| DL5XU      | XE2YWH     | W2EQ       | PJ2/K8ND | K6UM       | DJ7PI      |
| DO4DXA     | YL1XZ      | W2LE       | PY2DS    | K7TJR      | DL2HX      |
| EA5AT      | ZL3RJ      | W2NO       | R6YY     | K9EA       | DL8YRM     |
| EA7QW      |            | W3ICM      | RA6AF    | KA2BZS     | DM5TI      |
| FG8OJ      | <b>106</b> | W4IR       | RD4WM    | KH6KG/W5   | DS3HWS     |
| G4AKY      | AA4FL      | W5JAY      | SP5JXK   | KI0KB      | EA7SG      |
| G4RGK      | AE2U       | W8OP       | UA6LCN   | KW0A       | EU6MM      |
| HI8R       | DJ6OZ      | WA4MYO     | UR1RWX   | LZ2XF      | EW3LB      |
| I5IHE      | DL2NOM     | WA6TLA     | UR2RGN   | N3ER       | G3BDQ      |
| IT9XTP     | DL3JSW     | YL2GN      | VE1PZ    | N3TR       | G4AAW      |
| JA5EY      | DL6JZ      | YU3EF      | VR2MY    | N4GU       | G4PUQ      |
| JA6OXT     | EA3CCN     |            | VY2ZM    | N4TTE      | G4VGO      |
| JA8JTH     | HA8DZ      | <b>105</b> | W1LE     | N6PF       | I0OSI      |
| JH9DRL     | IK0ZIO     | DF2PI      | W1LY     | N6WM       | JA1JAT     |
| JR1BAS     | IW3GJF     | DF8AA      | W4OWY    | N8MZ       | JA2GQO     |
| K0MD       | JA1VLK     | DJ3XD      | W5KI     | N9DR       | JA2OLJ     |
| K1TZQ      | JA2MNB     | DJ6KH      | W6FF     | N9PGG      | JA3FHL     |
| K3SW       | JE6IGP     | DL4ZAB     | WQ5W     | ND3L       | JA8EJO     |

|        |            |            |        |            |           |
|--------|------------|------------|--------|------------|-----------|
| JE1SYN | <b>102</b> | T77V       | JH3PRR | UA0FDX     | G4CGG     |
| JH1DGQ | A6/RV6LNA  | UA1AIR     | J13KDH | UG6GAW     | GM3ZSP    |
| JM2RUV | CT4BD      | UA1CKC     | K0LW   | UR7CQ      | I2VGW     |
| K0EOO  | DK3QM      | UA6HOF     | K1YR   | UT1CC      | IK0HFO    |
| K2UVV  | DL3DXX     | UA9MR      | K2BX   | UT4IS      | IK4MSV    |
| K4LQ   | DL3NCR     | UA9UCO     | K2TER  | UT7HA      | IS0/YO3RA |
| K5JUC  | DL4CW      | UW7CN      | K3SEW  | VE2OJ      | IW0BYL    |
| K7BTW  | DL4KUG     | VE2FYR     | K4NNX  | VE3XB      | IW0HQE    |
| K8CCV  | DL5RDI     | W0JMP      | K5DNL  | VK2GR      | JA1BRK    |
| K9MUG  | EA8AKN     | W1MRH      | K6AAW  | W1AW       | JA1CPU    |
| K9XJ   | EI4DQ      | W1PV       | K6XJ   | W1FC       | JA1ILA    |
| KE1IU  | EI6GF      | W2LW       | K7AR   | W1GF       | JA4FSH    |
| KJ4R   | ES5RW      | W2TX       | K7IA   | W2SF       | JA5DQH    |
| KJ7WY  | F6BWO      | W3EKT      | K8BN   | W3WH       | JA9CGW    |
| KM9E   | FM5WD      | W4ALF      | K9JU   | W4BUE      | JF3DRI    |
| LX1DA  | HB9AHL     | W5TO       | K9PG   | W4PM       | JH7BKN    |
| N0RU   | I8LWL      | W7IUU      | KC4PX  | W5RF       | JS6TWW    |
| N1HOQ  | IT9SFT     | WA0IDK     | KD3UY  | W7AV       | K0LB      |
| N9BBQ  | IZ4MJP     | WA1S       | KE1VT  | W7CB       | K0XM      |
| NU1T   | JA0HXV     | WD8DSB     | KE4S   | W8GB       | K1NA      |
| OH3GD  | JA8OW      | WS4Y       | KF7NN  | W9MAF      | K1NZ      |
| OH4UI  | K0YN       | WW5G       | KN6J   | W9ZCL      | K2CBI     |
| OK1DQT | K1PTF      | YO2CMI     | KQ1F   | WA3EKL     | K2CYE     |
| OK2BQU | K2LP       | YO2IS      | KS4XQ  | WB3HLH     | K3TZV     |
| OK3BRK | K2TK       |            | LA2GV  | WC4H       | K4FT      |
| OZ7JZ  | K3KG       | <b>101</b> | LA6UL  | WK9U       | K4KSY     |
| PA0GMM | K4AQQ      | AA2VG      | LZ1XZ  | WR2G       | K4QS      |
| R9GM   | K4KAY      | AA3LX      | N0STL  | WV9L       | K4UQC     |
| RA0FA  | K5ZO       | AA4NU      | N2AJ   | YO2OXD     | K7VIC     |
| RA4HT  | K6DJ       | AC2AC      | N5AQ   | YO6BHN     | K8BZ      |
| RK3QY  | K7BHM      | AC5O       | N8AG   | YV4DYJ     | K8CR      |
| RU3OW  | K7UA       | CT1JGA     | N9JCS  |            | K8CS      |
| SM3CBR | K8BHZ      | D44BC      | NE1F   | <b>100</b> | K8LE      |
| SM6EHY | KJ6NZ      | DH2FW      | NX2X   | 9M6YBG     | K9NZ      |
| SM7BHH | KN4KL      | DK9WI      | OA4TT  | A41ZZ      | KB0EL     |
| UA3PFN | KW4BY      | DL1KS      | OE3WQB | AA4AK      | KC0V      |
| US2WU  | KY6R       | DL3ANK     | OH3TY  | AB4VV      | KC4D      |
| UT2AB  | LA3ANA     | DL5JS      | OK1PGF | AC4VM      | KC5LT     |
| VA2ZO  | N5RZ       | DM3ML      | OK2BOB | AI2S       | KD8BZY    |
| VA3IC  | NZ3M       | EA1WX      | OK3EY  | DJ6OI      | KP4N      |
| VE3EDY | OH2EA      | EU1TT      | OK4MM  | DL1TPY     | KQ5M      |
| VE3MFA | OK1DTN     | G3ZFC      | ON4LG  | DL1TRK     | LA8W      |
| VE3VV  | OK1JDX     | G4FJK      | PA4WM  | DL9GTB     | LU5OM     |
| W0QC   | OK3CSQ     | GM3WTA     | RA3AH  | DU7ET      | LU5YF     |
| W0UVC  | PA7TWO     | HB9NL      | RA4P   | EA1CP      | LZ3YY     |
| W1CTN  | PV8ABC     | IV3GOW     | RA4SD  | EA2AAZ     | MM0SJH    |
| W4AVY  | PY2DO      | IV3KCB     | RB7GG  | EA3ALD     | N0AH      |
| W4MZ   | R2AB       | JA1VVX     | RK9F   | EA8AXT     | N0ATQ     |
| W5THT  | R3IS       | JA2VMU     | RY6M   | EC5A       | N1KI      |
| W5VU   | RU3UN      | JA6TMU     | SM2DMU | ES5NC      | N1MD      |
| W6SZN  | S59DJK     | JA7SFD     | SM7NDX | FM5GU      | N2SG      |
| YO7APA | SM6WET     | JF1RPZ     | SP7JLH | G0VXE      | N2XQM     |
|        | SP5MXZ     | JH3HGH     | SV1PL  | G3OIL      | N3AF      |

|        |        |
|--------|--------|
| N4CRI  | W2CCC  |
| N4ZR   | W3BBO  |
| N7DED  | W4HHN  |
| N7TK   | W4OEP  |
| N8IL   | W4OV   |
| N8NB   | W5BK   |
| N8OQ   | W7DT   |
| N9ADG  | W7JET  |
| NA6O   | W8CNL  |
| NB3R   | W8FN   |
| NG7A   | W8GDQ  |
| NJ3I   | WB4SON |
| NN4SS  | WU2M   |
| OE5JDL | YB1TJ  |
| OK1DXD | YL2SM  |
| OK2PAZ | YO9FLD |
| ON4ANN | ZP9MCE |
| ON7EH  | ZS2DL  |
| ON7GB  |        |
| ON9CC  |        |
| OZ1ZD  |        |
| PA0INA |        |
| PA7RA  |        |
| R3PJN  |        |
| R9JX   |        |
| RA3SD  |        |
| RA4LW  |        |
| RA6XB  |        |
| RC2A   |        |
| RN1A   |        |
| RT5A   |        |
| RU3GF  |        |
| S53MJ  |        |
| S59SV  |        |
| SV1VJ  |        |
| SV2DSJ |        |
| TI5CDA |        |
| UA3AKI |        |
| UA4PAY |        |
| UA6CEY |        |
| UN6P   |        |
| UR4CW  |        |
| UR4LRG |        |
| UR8IDX |        |
| VE1RGB |        |
| VE3OAT |        |
| VE7JKZ |        |
| VP2VA  |        |
| VR2PX  |        |
| W0GYH  |        |
| W0MU   |        |
| W1AN   |        |
| W1YRC  |        |