

ARRL - Fred Fish, W5FF Memorial Award

The ARRL awards the Fred Fish, W5FF Memorial Award to amateurs who submit confirmations for contacts with all 488 Maidenhead grid squares in the 48 contiguous United States on 6 Meters. The following listing contains the call signs and FFMA totals as recorded at ARRL HQ today (22 Dec 2024). Awards are NOT activated automatically; participants must apply to have the Fred Fish, W5FF Memorial Award activated when the qualifying number of credits is obtained.

See the [ARRL VUCC page](#) for details.

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|------------|------------|------------|------------|------------|------------|
| 488 | W3CP | 484 | KC7V | 462 | KS7S |
| AA0MZ | W4UDH | K0SIX | | K6ZH | N4SC |
| AA5AM | W5ADD | W5VY | 474 | N6ORB | W5EME |
| AA5C | W5AFY | W5ZN | N4WW | WE9R | |
| AA7A | W5AJ | | W6XK | | 446 |
| A15I | W5FF | 483 | | 461 | K6EID |
| K0GU | W5KI | AC0RA | 473 | NA9RB | N4QS |
| K1TOL | W5OZI | K0TPP | NQ7R | | NV4B |
| K4PI | W7GJ | K1USA | WB0O | 458 | |
| K4XO | W7JW | W0VTT | | K4MY | 445 |
| K5RK | W7KNT | | 472 | KG5THG | KU7Z |
| K5UR | W7MEM | 482 | A11K | N9BCA | N5NA |
| K5WE | W9FF | AD6D | KB7ME | WB9CIF | N8OC |
| K7CW | W9JN | KX4R | N7ZO | | |
| K7ULS | W9RM | | WD8JJA | 456 | 444 |
| K8SIX | W9XX | 481 | | N4JQQ | N7BAV |
| K9CT | WD5K | W9VHF | 471 | | NI0G |
| KA9CFD | WQ5S | WD5COV | AF5CC | 455 | W4DR |
| KA9FOX | WS9V | | N5KO | K4SO | |
| KD5M | | 480 | | | 443 |
| KG5CCI | 487 | K5GZR | 469 | 453 | AB4IQ |
| KM0A | K7MAC | N7KA | K7BG | K4YMQ | K4XP |
| KO9A | K7TM | WB0ULX | KM0T | | N4MM |
| KR7O | K9YY | XE2OR | N4TB | 452 | N9PGG |
| KV5W | N0AKC | | | N5BO | NE1B |
| N0LL | N7CW | 479 | 467 | W3UR | |
| N0LWF | N7IR | W5WVO | AD1C | | 441 |
| N0PB | N7NW | WA7HQD | N5EKO | 450 | K8TB |
| N0TB | N9ISN | | WO7R | AJ4F | |
| N1AV | NA6L | 478 | | N9BX | 440 |
| N3SL | | AE5B | 466 | | AG9S |
| N3XX | 486 | N5WS | KA0JGH | 449 | KB8VAO |
| N5DG | K1TO | | KB6NAN | KF6HI | W2IRT |
| N5OMG | KY7M | 477 | ND4X | W8TN | W3LPL |
| N6JV | N0KE | NC6K | WX7M | | W5THT |
| N9LB | | W9RN | | 448 | |
| N9UM | 485 | XE2CQ | 464 | W5XC | 439 |
| ND0B | K5ND | | KB9OWD | XE2K | WB8ZBT |
| W0FY | K9MU | 476 | | | |
| W0JW | N0POH | K0BJ | 463 | 447 | 438 |
| W0LGQ | W3IP | KC7QY | VE3EK | K4HB | KB9DAK |

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|--|--|---|---|--|---|
| 437 NY0V | K8ZR N5OK XE2X | 410 KE7SW KI8G N4HN | K0AZ K5WBM KF7CQ | 381 W3VZ | W5RCI W6GMT |
| 436 K1HTV K3SX K7PI KD3CQ W3TC WB8ART | 425 K6ML | 408 W7BA | 393 K7XC KK4MA NJ6D W4TV | 380 K7MCX NM5U WA5LFD | 367 KC4HW KR4BD NT9E W7Yaq |
| 435 K9KLD KF6A WB7CJO | 424 N4UFP N9AKR W3EP | 407 W4AS W5CIA | 392 AF4HX N4UFO VE4EAR W6OMF | 379 N8WNA | 366 AA4ZZ KI7JA N4LR W7FI |
| 434 K1SIX | 423 AJ4A NA6MG | 406 AK3E K6FG VE2XK 6M FN07PJ | 391 N1EVK W4AVY | 378 WR7X | 365 K4JJW KG7CW KZ2I WB4EVH |
| 433 N9FN W9WO | 422 VE6WQ | 405 AA4SC K5CKS | 388 K0IP W4WRL | 376 AA5JF K8GI K8VfV N2WK | 375 K6QG WB4OQX |
| 432 K6GXO N6KK W5TRL | 421 K8ROX WB8BPU | 403 KE8KMX NH6T/W4 | 387 K2TER KV4T N4CH | 374 AB1OC N6GP N7DB | 364 AB5EB JA7QVI N6QQ |
| 431 K0TLM N2QT | 420 VE3LYC | 402 K3FM | 386 N7IJ NN4R W5TFW W7AH WE4S | 373 K4SSO | 363 W4NH |
| 430 K1TEO KF8MY N5TJ | 419 K7NN W0GN W5AL | 401 K4CKS | 385 KF0M NK1K VE6MB W4WTA | 372 W5MO | 362 WA5OLT |
| 429 WA5JCI | 416 K4RWP K7ND | 400 W0JRP W0RH W3UUM | 384 AA1ON AB4SF K1GG K8ROK | 371 WA6BYA | 361 K7XB K8BL K9NR N7MB N8KOL NE9U NG4C |
| 428 K9APW KP4AJ N2NL N4TL | 415 K5OMC K7AWB KO4MA N5SYV W0GJ WB5JID | 399 WA9DU | 383 K5PI K6VHF VE3YXO | 370 AG4W K5TN KN4SM KS4YT KV7K N3MK NT0V | 360 AA4FF K6UM (CN85) N3OC |
| 427 N4QWZ W3LL WA1Eaz | 414 AH0U K7KQA | 398 K7SMA N8IEZ W1NG W5JAY | 382 K5PI K6VHF VE3YXO | 369 KF8UN N2DPF | 359 NI0P |
| 426 K4ZOT | 413 WA9LFO | 397 K5RT | 381 KB0V | 368 KB0V | 358 K5RLA |
| | 411 K9MK N9EAT | 396 KB8U | | | |
| | | 395 AA5XE | | | |

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|--|--|---|---|--|--|
| 357 K4LVV W5PR | 343 AB4EJ K5EK N3RC | WB5TOI | W7JLC WF7T | 315 K5VH KG6AY NY2NY | 304 K6IPF W4FC WA0GUD |
| 356 NY1V | 341 KD7DCR NX7U WA7YAZ | 333 KM4HI KN4NN N0IGZ W3GQ | 325 WA2AEY | 314 KU4XO | 303 EA8DBM K8TGC K8TL N7LAN |
| 355 N2ZX | | 332 AA7UN N4JDB N7KDT VA3IKE W9GM | 324 K9SH KU4A N2BJ N8HRZ VE3TMG | 313 K0TC N6NR NF4A W4GLV W5RKN WA1NLG | 302 KB2TGU W3TI |
| 354 K0DEQ | 340 KE4TH N0AN | 331 K8WDA KC0UDO N4MW N6KZ VE7BV | 323 K10E N8II W4MAY W8KEN WW0E | 312 AF6O KA2GOJ WB3LHD | 301 N0HJZ N2ZZ VE1JBC W7IB W9OBG WB0TVY |
| 353 AF2K K0CS K8EB | 339 KE4BKL VA7FC W5VAS | | 322 VA6SZ | 311 AC9S KM3T KS4XQ W2BZY W5DB | 300 AA4V K0DD K0PHP K0SRL KB6VFC N3KN WA2BAH WX0Z WX2S |
| 352 NZ3M W0KKK W1JR WA9PWP XE2ML | 338 VE3SXE WA5KBH | 330 KB8MBC NK0S | 321 NC7B NS4C W9VA | 310 AA8SW NJ7G W9KVR WO4DX | |
| 351 AA4FL K5DTC | 337 K8ZES NU6S W9EWZ WA5RT | 329 AA1QD N2JJ W1DYJ W2OR W8WG W9DCT W9XA WX4G | 320 K0VG N4DW | | |
| 350 AB9BH N6VI N8YO | 336 AC9DX FG8OJ K5KDX K7BV K9QVB/9 VA2WA VE3DS WO9S | 328 K6ME N5PT W2CNS | 319 N7US W4ER | 309 VE3XN | 299 VE6WK W1LE W5SUM W8UV WB5GVY |
| 349 K8JH KA0BAD | | | 318 N3ALN W4HY | 307 KE5K W3ATV W9RPM WB4KTF | 298 KD4WSC N1NK N4IQ |
| 347 KT8O | 335 K5FUV K5FZ K9QVB KB1EFS KB4MRX W9GKA | 327 K6EME KJ5RC N0YO W2JU | 317 N3PS W1SKU WA7PDC WO2T | 306 K6RO WV9L | |
| 346 W8LMG | | 326 K2ZD K6LMN K6TDI KD5XB NG7M | 316 K3FN KA0ABA N1KDO W4UCK W9BWR | 305 K6UM (CM88) KF2T KT1J WA9M | 297 N8YQX N9LF |
| 345 W3XY XE2YWH | | | | | 296 K6YUI KC7RW |
| 344 K6FW KB0PE KG8P W1OW | 334 K0OOK K3TRM N4UFO (EM95) N9DR N9XG | | | | |

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|--|---|---|--|---|---|
| 295 KE4P N7NT NA5Z W2HRO | 285 K5CZD K9UO N0LD WA4HFN | 277 AC7JM JR1LZK NS4T PV8DX | N5EPA N5WD | KB8UUZ N3EW | W9TA |
| 294 JG1TSG K6JSV | 284 AB0RX K0KP K4DET KX7L NJ2F (EL96) RETIRED | 276 K2CS K5TWW K7TAB KE8Y | 268 K6OJ N9ZTS W0KAN | 260 K6JAD N6HC W0PR | 252 AB5A CT1EEB K1ACL NN4RR VE6NTT VE6SH |
| 293 K3AX K4KJZ N4JJ N4MI W2GKR W4VC WA2IIE | 283 K1ST W8OP WA0FQK WB0CQO | 275 K1MAA K2NJ N4GG W0FK W8PI | 267 K8DP KG6EG KX9N N2AMC N7UVH N8EHW W4FSO W5WP W9DRB | 259 AK0MR KD4ADC KG6I KN5O N1RR NS7K NY1E VE6BMX | 251 AD5JK K1NJ K3NK KG7NV NN4SS |
| 292 KJ6P W1SSN | 282 AA0ZP DK8NE K5TA N0GZ N8JCM W4WM | 274 KB1DMX | 266 K1OA K1WVX TG9AJR WB8EJN | 258 K1BD K2HAT NA2NY WB7ECS | 250 AA9LC N8LRG NW6R |
| 291 KS4S W1WHL | 281 K4OY NL7CO W2YE | 273 K2BLA KM4H KV1J WB0OQV | 265 N5KS | 257 K0CCM K2KA K5QE KD4MYE N5DTT PY2XB WA2HFI/0 | 249 CT1IUA K8AO KQ5U N1GC |
| 290 W3HDH WA8EFK | 280 K2UU N0KV NM5Z | 272 K0PG XE1AO | 264 AC8L K4JAF N0TK NF1O | 248 K1ZZ W6VFA | 247 W1FKF W3TEF |
| 289 K4MM K9FA N5BCA NQ7G W4LTJ | 279 AA8MA KF9UG N3JPU W0VHF (EL87) WA4NVM XE1FAS | 271 K4NNX K7NII KB7FUV N9JR W3HHN | 263 AK4PR K3VAT K4XR K9AAA W7CT WB7QBS | 256 K3WA N8ZJN | 246 K0DAS KK8X N5TIT W4FRA WI7P |
| 288 AA4LR HC2FG K1NU N6AR W1DU W4HLR | 278 AA9D AJ4W K3JT N0LNO N8BJQ NN1N | 270 K4SPD KC9FQD N2LIV W4QK W5DNT W7JY WZ9B | 262 AE5FM K3CWH KL7HBK N4ST ND4DX WA0KBZ | 255 K8MVZ KG4JPL W0NOZ WA8KNE | 245 N1IA N3XF VA3CW WA8ZID |
| 287 JE1BMJ N8CGY | | 269 K1GJQ K2IE K3ZO KD5R | 261 AF2F K3TWW | 254 KF8QL N7QOZ VE3OTL WD5ITW | 244 AA9RR K8DV KD8JSP |
| 286 AG1A | | | | 253 KG4ERR N2XQM W3SW | |

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| N3AIU (FM08) | KL0S | N4NX | WA2BOT | 213 | W4EJG |
| N4JRY | MD0CCE | NN5DX | | K3DFL | XE1J |
| VA3ZV | N3FTI | | 221 | KI6X | |
| VE3VHB | N9ATD | 228 | K5WMH | W0NBC | 205 |
| W0VD | W5AJX | K5RUS | K6CQR | W8RD | AF4OD |
| WD4IXD | W9OO | K7HSJ | N0PSJ | | K8SD |
| | | KF2ZQ | N4ION | 212 | KE4HOA |
| 243 | 235 | N8AIA | N5UWY | AB5C | N5ITO |
| JA1QJI | ND0C | W5HEZ | W4IFI | KF7NN | N9ATF |
| K3TC | NN9X | | | N2OA | W8QID |
| W4EJ | VO1GO | 227 | 220 | N5PA | |
| YV1DIG | WB6RJH | JA1UAV | HC1BI | | 204 |
| | WT2P | K8ZT | K7BTW | 211 | IT9IPQ |
| 242 | WZ9W | K9TF | | K9FOH | W5LUA |
| K3WW | | KS9A | 219 | NE8S | |
| KA3TCC | 234 | W4KXY | AI9L | VE3SMA | 203 |
| WA8MCD | KE6FCT | | K2RKJ | W2ZDP | K0VSV |
| | | 226 | KE5RV | W5HNC | K5HYT |
| 241 | 233 | AF5WN | W5JMW | | K5LOW |
| N6NU | K1AFC | N7CNH | W6DPD | 210 | N0HF |
| W5LO | N3AIU (DM45) | N8UR | W7ZSL | JR3REX | N8SYF |
| | N9NJS | NM5S | WB2WIH (FN20) | K3MSB | NR0Q |
| 240 | VE7VZ | W0VX | | K9YC | W1RM |
| AB5GU | W3DF | WQ6Q | 218 | KL7NO | W9GFB |
| KG5EIU | W8PAT | XE1YY | K1XH | N6UK | W9VOB |
| KI0HA | XE1L | | K4IJQ | PV8AZ | |
| KK4ZUU | | 225 | K8YC | WQ9T | 202 |
| KO6LU | 232 | AC9O | KB8KVJ | | K1BZ |
| VA3HP | AE4WG | K9QJ | NI3K | 209 | K5GJR |
| W1VT | K5FO | KX9X (EN50) | | AA4IB | WC7X |
| WA2VJL | N9NJY | N2WSY | 217 | N1TQ | WF8Z |
| | VE6TA (DO33) | N4SV | KB1HY | W5WGF | WQ5W |
| 239 | W0PPA | VE3MSC | ND4V | WA4NFO | |
| F4BKV | | W8AKS | W4DEE | XE2N | 201 |
| KF4LVF | 231 | WN6W | | | AA7WB |
| W6RW | K4MIJ | | 216 | 208 | KC5FP |
| W9YOY/M | K6HEW | 224 | K7RB | AI2N | KO9V |
| WA3SEE | KF6GYM | JM1SZY | N0IS | CO8DM | KR0I |
| WB1FLD | VA2CY | K9MQ | NE1F | KD5HIO | NN0K |
| | W9XT | WA4YA | W5RWF | PV8ABC | WA1MKE |
| 238 | | | | | WA9ASZ |
| AA3GM | 230 | 223 | 215 | 207 | |
| JP1LRT | JM1IGJ | GD0TEP | AL7OC | K3HPA | 200 |
| KV7N | K1ZE | K7UA | K2SX | N1BCL | 4A2MAX |
| | KO4MM | NJ7A | KI5FJ | N8NJA | N5AO |
| 237 | VA3XJ | | N2YU | | N9AG |
| K3FRK | WB0WAO/8 | 222 | N6KW | 206 | VA3VU |
| K3KO | | K0YY | NA5C | AB0CT | W1AW |
| K4QE | 229 | K2TV | | AK4Y | |
| | K6RG | K3AJ | 214 | K9YC (EN61) | 199 |
| 236 | KB9RUG | KA1LMR | KB9PJL | KB0LYL | JA8ISU |
| K0SU | KD5IKG | KD4K | VE3SYK | NA5Q | K4GHS |
| K4NK | KE4UW | W8GJ | WA7AJ | W0BNE | N3KFV |

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|------------|------------|------------|-----------------|------------|------------|
| NJ8J | W8FN | KD5BQT | N0LIE | 173 | TG9ADQ |
| W4OEP | | KU4UC | N0MMA | K2ZZ | W1BAT |
| WBOYEA | 191 | NA2R | NH7RO | K5YPV | |
| | K0ITC | PY5CC | VA3DPB | KE4SCY | 166 |
| 198 | K9CS | W3OU | W8LHP | | KC2GHT |
| AC8TO | KK6OH | W5BPT | WA4QMQ | 172 | N5VU |
| N0UK | N9AMW | | | AB9KZ | NC4RY |
| N7EPD | WA2BKN | 184 | 178 | K5ZED | VA3WEB |
| NX0I | WA5CAM | AF5Q | 4O3A | KI4PKW | WB4KXS |
| WA7KYM | WD4JHD | K0DEW | KA2AYR | KJ6HI | |
| | | KR4M | KB0EO | VE2PN | 165 |
| | | N1IBM | KB1RZA | W4ABC | K4DXT |
| | | N4BG | KG5RJ | | KD5HPT |
| 197 | 190 | | KK8MM | 171 | N1JFU |
| K3EGE | K2WJ | | N1ZUK | AA4PB | W0RIC |
| N4BAF | K5ER | | NQ2O | HP2AT | |
| W3TW | KC2DLD | 183 | VE3NRT | KC5GSK | 164 |
| W5CTV | N5SMQ | K5RQ | W0ZY | KC5YCH | K2SD |
| W9TD | N9UA | N0FJP | W1MAD | KI4TZ | K5VWW |
| | W1ATV | N0UBL | WY7FD | NS3L | KD0UHN |
| 196 | W2OO | W2UDT | | W1PX | KF9US |
| JR2HCB | | | | WA2KBZ | W4CSW |
| K0AIZ | 189 | 182 | 177 | | WK7G |
| K0NR | KC0MEA | AJ6T | AG4ZE | 170 | |
| N5DUW | W3SZ | DF3CB | K2QQ | K5DB | 163 |
| W2AMR | WA5VKS | FP/KV1J | KI4BWW | K9TVG | K2JF |
| XE2ED | | K5GMX | SM7FJE | N4GBK | K2YSY |
| XE2W | 188 | K8WK | W5ZG | N8CN | KK0DX |
| | AD7KI | W2CCC | WA8UEG | NA2U | N5XZ |
| 195 | KD4HLG | XE1CL | | W4IHI | |
| AA4W | W4AZR | | 176 | W4JKC | 162 |
| JA7MSQ | W6AER | 181 | AD5ZA | WK3V | AF4GK |
| K6VDP | WA7VHF | AB9FN | K0DI | | K0QB |
| KC0VDY | WU9Q | K4CMS | KX9X | 169 | KA1R |
| KG6WIK | WX9M | K5HDE | N5QGH | K6XC | KD4TDI |
| | | KB8YKR | NP4BM | KD5OMJ | W9JJB |
| 194 | 187 | N3XJX | W5AFD | N2BEG | W9VS |
| K2MRK | JF8QNF | N4DTF | WA5IPS | N5XES | WA1Z |
| N3FA | K3EA | NY0A | WW2R | N7PHY | |
| N9NFT | KD3HN | W4RBO | | VE3HHT | 161 |
| WF1H | KQ0J | W9BS | 175 | W8KNO | K4EA |
| WK8A | N1SV | WJ1B | PV8BR | | KB3CWQ |
| | | | | 168 | N2YBB |
| 193 | 186 | 180 | 174 | KG5ZMQ | V44KAI |
| K7PT | DJ5FI | K0OST | K3MD | W8WEJ | VE3LC |
| K9AB | K6ZZ | K4LYN | K6WRL | | W4HOG |
| | K8PT | KC1MMC | KC6ZWT | 167 | |
| 192 | K9SG | N1RK | KG7P | K4MQG | |
| N1LF | KN4PPD | N6PEQ | KU0A | KB1YNT | 160 |
| N2NB | KN7K | N6VH | N1MGO | VE5EP | K5IQ |
| N3CAL | N0XLR | WA5RR | NA2NY (ex-NA1V) | LU4FW | WA3DRC |
| N3NR | N6ZE | | NA6O | N0NHW | |
| N4LXB | | 179 | W3SO | NO0T | 159 |
| N4TV | 185 | K1EP | WA2PNI | | K4MZ |
| W6MTR | AD6W | KU4WD | | | |

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|------------|--------------|--------------|------------|--------------|------------|
| NS7B | 152 | KC2TN | 140 | NO1R | 131 |
| W1EME | N1NUM | KM5TY | AC5DK | OE6IMD | K3NAT |
| W4TTO | N2WM | N4HID | CO2WF | W2JCN | KG9R |
| WB8NUT | NU1T | VA2RC | CT1BWU | W4AVV | N2CJ |
| 158 | UT7QF | VE1VOX | JA1AFR | W7UV | 130 |
| K8CR | W6IA | W4HFZ | K1UO | XE2JS | AB0X |
| KI0D | WO4G | 145 | K7SAM | 135 | AK8CW |
| N2CG | 151 | KD7YZ | KC0MEZ | CU3EQ | JA6RJK |
| 157 | KO0Z | V31MD | KC8TMU | K4MWB | K0GUR |
| K4FX | W1ZT | VA3TTX | KJ4KVC | K8ZIZ | K4JKB |
| KB8GC | W2DXE | WA4JA | N1EN | LY3W | KC4NX |
| WA7NB | 150 | 144 | N3VOP | N4DB | KE8RJU |
| 156 | N9LAH | K0TLG | NJ0U | N8XE | NG9R |
| K2KJ | NE6I | K5TDW | VE3KY | W6BXQ | PV8AJ |
| N3RN | VE3OAT | K6JRA | W4TUN | WB8BZK | VE1DX |
| N9KO | W7APM | K8MN | W6DQ | WW2DX | VE2TZT |
| VE7VDX | 149 | K8WU | WA4KXY | XE1H | W0PHX |
| 155 | AB6CF | KA8SYV | 139 | 134 | W2LES |
| AE4M | K4SAN | N9DI | IZ8FFA | AB1NS | W3FEY |
| K3TD | KK9H | W5MPC | K1DT | AB4GE | WA2SEI |
| K6XN | WB4VHF | WO7GI | KC7JPC | BA4SI | WB4YDL |
| N7AU | 148 | 143 | KU0G | C6ABB | WW5W |
| N9OBE | AC0DQ | K0KVR | N3FX | GM4UYE | 129 |
| NY4I | AG0A | K6JBH | NA2AA | HK3W | 8P6ET |
| TG9ANF | G0OIL | K9QFR | W2PD | KE5FXE | JF4VZT |
| VA3NQ | K0RU | KB8RJS | W4OV | N3AIU (DN70) | K0KD |
| WV8DX | K7IU | N8URE (FM19) | WA5TKU | N8GOU | K5QWO |
| 154 | KB2YSI | NA1VT | WB2JIL | W4TKI | KC8KSK |
| AE4NT | N0TM | W0HNM | WY0V | WA3WZR | KF4NEF |
| KB9VMW | N5ZBI | W0UHL | 138 | 133 | KM5LY |
| W3ZQN | W6VNQ (CM88) | WB0MMC | AC0XY | KA5ETS | KM5SC |
| 153 | WB6RAB | WM5H | AI6O | KC1RET | N9WBR |
| AA4NC | 147 | 142 | KD7WPJ | KE1VT | NZ6N |
| AB4GG | AF6AV | NA2X | KE0A | KM8V | 128 |
| JA1OVD | IZ1LBG | NC4VA | KE3D | N7T | KC7QAG |
| K7AD | K6PSP | W5SWV | KE8RO | W0RT | KJ6SDF |
| K7ZD | KC1BUF | WS4V | KQ4KX | W4GE | KN4DMN |
| KW0A | VE3CX | 141 | N3XH | WW7Q | W0WT |
| N1OFZ | W4YCC | K4AR | 137 | XE2O | W5ZO |
| N2ADV | W5WOX | K9ATX | N1SZ | 132 | W8FR |
| N6DHZ | WA0VPJ | KT8TD | N5JGK | AB3CV | WB2WEO |
| W3DQS | WA3YGQ | N9FIV | SM7AED | IC8TEM | WQ7F |
| W5FI | 146 | W4FS | 136 | K5VG | 127 |
| W9ILY | K2GW | W4POT | K0XXX | KW4G | AA9RK |
| WB5ZAM | K8YTO | W6ZI | K4SX | N4PPH | JA3LZS |
| | KB0YH | WB9WHQ | KC5LK | NE1I | K3GYK |
| | KB5ZEA | WR7AY | KC9AXZ | VE3TM | K7UV |
| | | | KJ5RM | WN6K | K8AC |
| | | | KV1E | | K8OS |

| | | | | | |
|--------------|---------------|---------------|------------|------------|------------|
| KB3OZC | W3SE | K2SQS | KE6TVM | WX3P | VE3SUB |
| KB9TLV | W4PRZ | K4MSG | KF0QS | XE1GK | VE7IG |
| KC0RQH | W5EWF | K7JIZ | KF9AF | | VY2RU |
| N2ZA | W7MHW | KF7PCL | KM5FA | 111 | W4AMP |
| NO8D | W8BI | KP3V | N7VGO | N0SLT | W4CRN |
| VE2JWH | W8KHP | KT0P | VK9DX | N8IK | W5AAJ |
| W1FLD | WA8WV | KW7N | WA3BZT | PC3T | W8EH |
| WA6BIL | WB2RVX | N4UPX | WC7V | W8GBH | W9VNE |
| | | W0QC | | WZ8P | XE1R |
| 126 | 122 | W4SW | 114 | 110 | 107 |
| KJ7G | K7AED | W7QQ | AC8HU | K5KR | JA3EGE |
| N0BDS | K7OGW | WI4T | K2RET | K7LD | K5UIC |
| N7DGI | KA9JAC | WM9M | K3RTU | KD5J | KF7PG |
| WB4HUC | KB4UF | | K9AAN | KI0F | KI9A |
| YL2AO | KB5WFE | 118 | KC4GCK | KP4JRS | KK4LUM |
| | KC5UGX | J68AS | KG9Z | KQ4LA | N3TTT |
| 125 | N5HYV | K4AZV | NF8M | KX5U | N9OI |
| AA6I | VE6PY | KA4LBD | VE1WOW | N5TIF | NF0T |
| AA7DK | VE7JAC | KF6MXK | VE3IRR | N5YM | US0KW |
| K3PU | WD0GTY | KI7BP | W2JLK | W7JET | W2ODH |
| KC5DRI | | KT8X | W4ALF | W7UP | W2TTT |
| KD2NF | 121 | KW4BY | W4UFO | | WB4PPW |
| NT7C | AE1P | N1QDQ | WO2C | 109 | |
| W2AJM | K0MFI | N3JNX | WX4US | AK6ZZ | 106 |
| W3UQH | K4HBI | N5EIL | | G4BWP | EA4DEI |
| W4DFU | KB2WAL | NZ1I | 113 | IW1ARB | K0MEI |
| WA6POZ | KB5MH | W2AC / WB2ABK | AB4PM | K2DSW | K5BJW |
| WB4OMM | KE4JFS | W2AC/WB2ABK | AD5MD | K2JGL | K7BWH |
| WE1P | NE0P/9 | WB2KSK | K3DQB | K2OO | K7JE |
| | UR0MC | | KD4BPZ | K5DNL | KB0TIJ |
| 124 | W8DN | 117 | KD6VCD | K9GY | KC7ICM |
| K0DLW | WB9TFH | AB5J | KM5OL | KE6GLA | KE5JXC |
| K8VA | | K4WS | N3JDQ | KJ6CA | KJ6MBW |
| KB0HH (EM06) | 120 | N4USG | N4YCI | KZ7N | KK2DOG |
| KD5FTD | EA1YO | N5JEH* | N5YK | N8TMW | N0RQ |
| KM1C | K2CYE | N5LPT | W0BM | N9TTX | N1USB |
| KT5MR | K4CGY | NU6V | W8MSP | VE3AAQ | N2IPH |
| N0SL | KD0R | W6WE | W8VW | W0YJT | N4CE |
| N9AZZ | KD4MZM | WA1TBV | WD0ENC | W1OP | N5FPW |
| PV8AAS | KD5BRF | XE2PXN | | W4ZRZ | N5YHF |
| W0PE | KE4SCY (FM06) | | 112 | W5MPC/1 | N8HM |
| W1TAM | N3YPJ | 116 | K2MLS | W7RJR | N9XMU |
| W7YM | VE1JC | IK7EOT | K3GD | WB6YIY | VA3OKG |
| W9CDL | VE3XK | JR1BAS | K5WTA | WB9W | VE3AJY |
| 123 | W4LVH | K4RGN | KA7T | | WB6VYH |
| AC7AF | WA6RAY | KI6QDH | N5HMH | 108 | WQ9F |
| K9SM | WB0WAO | KU5B | W1TR | CF3VRQ | |
| KB0GT | WD4OHD | N0VR | W5DM | HB9BZA | 105 |
| KB0STN | | NO0B | W5DQ | JA9IPF | AC4Q |
| KG6DHQ | 119 | W0DHB | W6OAT | K5OPB | K4SJA |
| VE3TG | AE5AU | | W7IV | N3MWQ | K9MAL |
| W1HS | K0AWU | 115 | W9PN | N5DD | KB3JGS |
| | K1ZN | K9MMS | WA8TWM | | |

| | | | | | |
|------------|------------|------------|-------------|--------------|-----------|
| KC0JYT | KB2SGX | KG8WB | 99 | KG4YOU | NU0Y |
| KC4KK | KC9FFV | KG9IL | AB0SD | KG7E | VA3FIN |
| KF4DGS | KF0AIJ | KL2R | AB3TM | KJ2G | W3QT |
| KJ7TH | KF4DVG | KR4WM | K0YO | KK0CQ | W4CWA |
| N4NQY | KR4NO | KR7LD | K4KEW | KY0Q | W4DAS |
| N5SAN | N0YXE | N1IX | K4WQ | N0JJQ | W4ID |
| N7YY | N1JIF | N4AOE | K4ZO | N1JHJ | W7DN |
| NE9O | VE7DXG | N8VEA | K5VPQ | N3LRP | WA6OSX |
| PU4JOE | W0TF | N9DVS | K7DD | N5TEY | WA9LEY |
| VE3VRQ | W3LEO | ON9CMR/W0 | K7PAP | N8AID | WB8RVK |
| W8MIL | W6IT | VA2LGQ | K9ZZE | NO5X | WB8ZTV |
| W9RVG | W6XU | W4LLP | KA0ZEE | NO8R | WB9PNU |
| WA4MYO | | W5KBD | KC2IEB | VA3VF | WE8L |
| | 102 | W7ISG | KC6X | W2KRP | |
| 104 | AA9MY | WB8IMY | KD4MWO | W6TE | 96 |
| AB9YC | AB8JH | WD5IYT | KD6RUH | WA2FGK | AD5OW |
| AC5K | AD6KH | | KR4UA | WA3TLT | AE4TQ |
| AC5RN | K0HAQ | 100 | M5MYH | WB1GQR | AK4F |
| AC9QR | K3HW | AC0FT | N4FV | WB2YDS | K2CK |
| IK4DRY | K5VR | AI2S | N5OHL | WD0E | K2UF |
| K5PPP | K9AM | AI9U | N7HRT | WH6LR | K2UNK |
| KB9RNO | K9OHI | K2UA | N7JPF | WT5H | K4EQH |
| KC2TR | KA3ZLS | K4UQC | N7TE | WV5Y | K5CRJ |
| KD9GKL | KB8CR | K5GM | N8GHZ | | K8EMR |
| KJ7OG | KC6WFS | K5KV | N8YV | 97 | K9OT |
| KM6WXB | KC8DMN | K8IJ | N9MKC | AB8M | KA2NDX |
| KO4LZ | KD8NYO | K9CC | NB5R | AJ9C | KA3HED |
| N0STP | KE1AU | KB9ZLB | NH6CJ | K0HB | KB5GI |
| N1LDY | KJ4M | KC2HLI | NI5W | K0JQZ | KB8PNS |
| N2FBQ | KR5V | KC8CC | NS2P | K0QEI | KC0HBP |
| N3UPS | N1HOQ | KC9CMT | VE2HAY | K0SH | KD6PY |
| N7AGF | N5RMS | KD3SW | W2HOG | K0YQ | KI5TE |
| NJ1H | VE7ZD | KE5CVM | W2VU | K3HZO (FN20) | KM2O |
| VE2PIJ | W4RVZ | KF0Q | W5JLC | K4GTR | KM5NU |
| W1TE | W5DPT | KG5X | W6TJU | K4JQU | KS4V |
| W1ZE | W5OV | KJ5OA | WA1LAD | K8XF | KT5RR |
| W4KVS | W7UT | N3TBB | WA5TRX | KA2BSK | N0WVU |
| W6ZQ | W9NFL | N4NIA | WB5NHX | KA7EII | N2LID |
| W9MDB | WA8EQP | N5RZK | WB7VVD | KC0YBM | N2VHZ |
| WB2VUO | WB5FDP | N5XTR | WK5X | KD5CKP | N2XK |
| WB8BZK/VE3 | | N7EME | WW2R (EL09) | KF4KSN | N8PAQ |
| WG3K | 101 | N8COP | | KM4NYI | N8YBY |
| | AE7V | N8XS | 98 | KT5WB | NT2A |
| 103 | K0RAR | VP2MRM | AC2RL | N1SFE | NW5Q |
| AA5CK | K0SBV | W2CH | AD8Y | N1VMJ | NY2Z |
| AB0YM | K0WJ | W4/KL7GLL | K0KC | N3UMA | VE2DCP |
| AB5SS | K2NUD | W4OZK | K0UD | N4BH | W1HMM |
| K2OY | K5DWI | W8BZY | K3IXD | N5OTY | W4KK |
| K4MVL | K5HX | W9DQ | K3QIA | N6MA | W4TMR |
| K6USY | K7SYS | WA5TLP | K4OP | N9APK | W7JHS |
| K8ZEE | KB4KBS | WV9E | K5HOB | N9IO | W8DM |
| KA1W | KC6AWX | | KA1EKR | N9KY | WA3EEC |
| KB0FHP | KC8CSD | | KE4LGL | NK7C | WB0M |

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|-----------|-----------|-----------|-----------|--------------|-----------------|
| WB5KJE | K3TUF | K2AK | KG4URP | NU4N | K4BMM |
| WP4LNY | K4JRK | K2MTS | KM3V | OE9KFV | K5CX |
| | K4LDC | K4DAM | KR7X | W2SUB | K5JAZ |
| 95 | K4YJ | K5TRI | N0RC | W4MLN | KA0MWA |
| AE0G | K8GT | K6RM | N2SG | W5KDA | KF4TVL |
| AE5EO | K9DOG | K7IP | N3GH | WB0NRV | KI0G |
| K1PNQ | K9SUL | K7TRK | N4VN | WB7X | KI4FW |
| K4ED | KA2F | KB0USF | N5QO | WC4V | KI4US |
| K8KFJ | KA9UVY | KC5TGT | N6FD | XE1GZU | KR4U |
| K8ME | KB7AK | KC5TT | N6RPM | | N2GZ |
| K8VD | KC0AUJ | KC9TTR | N7DED | 90 | N5KAE |
| KD7WH | KC3AK | KC9UL | NS6E | AA0LM | N8YSZ |
| KD8DR | KD4VRZ | KD0QG | UT5JAJ | AB4WL | N9RG |
| KD9ZR | KE3WM | KE6AZX | W1PV | AB9DU | N9UDX |
| KF6XA | KF0LA | KE6UMW | W2ACY | AF5BG | NE2U |
| KI0SK | KG4NLZ | KE8RPJ | W2CVW | DL1SMA | VE3VCF |
| KW9U | KU4JZ | KI0J | W3ACO | JH4JNG | W0HRO |
| N1XK | N0LNE | N2BX | W3HZU | K1HC | W1HY |
| N2SLO | N0LP | N2YTF | W4BP | K1KA | W2JEK |
| N2WLS | N2SU | N3AO | W4LIA | K3CWF | W2OK |
| N3WAV | N3JBH | N3ZBK | W6NS | K3UAL | W4ZMM |
| N4ET | N3XBG | N4GOA | W8JV | K4AAP | W6VNO |
| N5BLY | N3YUG | N4YHC | WA3JKB | K4FTP | W9HT |
| N5ENU | N5ZMP | N7EGY | WA4EEZ | K4XZ | WA7SDI |
| N5KI | N6HY | N7JI | WM3O | K8EAB | WB3IAL |
| N9IV | N6MXU | N7KSI | | KA5TJI | WM6Y |
| N9LJX | N7NH | NA9D | 91 | KB5FHK | WQ5C |
| VA3KS | N7UN | VA7QI | AA0CW | KB7BSA | WR5AY |
| VA3PZ | N8WWM | VE3WMD | AD3Y | KK4DZP | XE2NL |
| VE3KZ | N9DD | W0MHK | CO2WZ | KW3DX | XE3DX |
| VE3SPW | N9UNX | W2VTV | K1UR | N2ULL | |
| W3UA | VA3MA | W3ZGD | K4SPA | N4BRF | 88 |
| W4YZJ | VE3RX | W4GPM | K6YK | N5BA | AA4QE |
| W5ADA | VE5MX | W5DMT | K7HPN | N9JJ | AE0DX |
| W5CBF | VE7AB | W7EIR | K8OI | N9MSG | AE4OF |
| W5RCQ | W2GR | W7TRX | KB2YWU | VA3XOV | AF4MI |
| W7JWC | W3IPA | W9IFW | KB3IAI | W9CPV | K1RS |
| W9SX | W3TA | W9NED | KB3NDS | W9CSY | K3TN |
| WA2ONK | W4LNG | W9WI | KB7AZ | WA2BEV | K4XD |
| WA3I | W5ODD | WA5ICA | KC5POV | WA8OJR | K7CTV |
| WA4WR | W5PUF | WB5CON | KC8LGL | WD9HCF | K7WV |
| WB2SIH | WA7LHZ | | KG4QWC | WE7H | K7ZYV |
| WD8DOT | WA9BXB | 92 | KI3O | WEST SEATTLE | K9MA |
| WS4S | WT9U | K1EY | KI5BLU | WH6LE | KB2KIR |
| XE2AT | WV7S | K5GDX | KM7N | WT4C | KC1GWX |
| | | K5TDA | KM9I | XE3/K5ENS | KC3MLC |
| 94 | 93 | K7FU | KQ6K | | KE7RTB |
| AA4RP | AG2A | K7HKR | N3PPH | 89 | KE8UM |
| AB4VT | AG6CV | K7UWR | N3WCM | AB1TZ | KI2D |
| AD1DX | AI8F | KB0PQP | N7CZ | AG2AA | KI4RFM |
| HK4SAN | K0IW | KC4JNW | N8DEZ | AG7NR | KJ4KW |
| K0ARM | K1PTF | KD4QMY | NA7L | G4NBS | N1CEO |
| K3BEE | K1ZK | KE4WBO | NR4J | JQ1TIV | N2MKT |

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|-----------|-----------|-----------|-----------|-----------|-----------|
| N2ZN | NZ3O | KK7BV | N9RC | 71 | SP5QWB |
| N4CAG | VA3MDB | KU4WW | VE3CFK | HB9EFK | |
| N4GN | VA7LM | TG9AKH | W2GW | K0GW | 60 |
| N4KIN | W8IW | W7USB | W2SKI | K4GK | KP4JFR |
| N4UC | WA1PMA | WD6T | WN0L | K5WPN | S55DX |
| N5VBK | WA4USA | WD9IOK | | W2YR | UR9QQ |
| NS3X | WB4GCS | WI6Z | 78 | W3FGP | VK4CZ |
| NT4TN | XE2AU | XE1MM | K2QPN | WC5M | |
| VE2VLJ | | | TG9AWS | | 58 |
| W2BZR | 85 | 82 | W4NE | 70 | HB9BIN |
| W3YX | EI3IO | AD4IE | | GI4SJQ | KC6NBI |
| W4DL | K1UU | CB0ZA | 77 | K4BNC | SV8CS |
| W4R XR | K4LRP | K4JMX | K1IFJ | KC0ZR X | WA2MUA |
| W7HDD | KB3MXK | KC5YKX | MI0AYR | W2LV | |
| WA2BTR | KC0V | KG4KVZ | | W2QO | 57 |
| WA5MD | KE4DRF | N1SF | 76 | W4GP | HL2EIZ |
| WK3N | KK4AND | PU8TEP | K0WYN | | IK1ZOF |
| WV8O | N2RJ | W5DAS | KI4CYB | 69 | N5LJL |
| XE1SOV | N4LS | W7YOZ | KI7WXP | K3WGR | |
| | VE3GFN | W8GG | N1GNB | WD4LBR | 56 |
| 87 | VE7DAY | WA2ONG | N2MH/4 | | EA5BY |
| AC0A | W1WV | ZS6NK | | 68 | KI5WA |
| AG4I | W3STU | | 75 | AA4S | LU8ADX |
| K4JC | W4IT | 81 | G4RGK | EH7CD | NI6T |
| K5UZ | W4RA | AB4I | K3PP | K6CF | UX1UA |
| KB1VUN | W6ST | IK8YTA | K8QM | KW4OV | |
| KC8NAH | W7SIR | KE4DZU | N5GH | | 55 |
| KE6WOX | W8DQ | N6MM | NP3YL | 67 | G4FKA |
| KI6RRD | W9QY | N7NEV | W5UC | W7YED | JL3MCM |
| N0ELA | WA4WKL | NI4Y | WP4NEG | | LA3MHA |
| N2CJN | WD4LSS | W3MC | ZL3AAU | 66 | US5WE |
| NA5DX | WF4R | WA4ZXV | | K6KLY | WA2EMF |
| NE5S | | WA8ZNC | 74 | KK4YEL | |
| NI5F | 84 | XE1EE | AK8B | | 54 |
| NN7RM | CT3FT | | CX4AAJ | 65 | AG4KI |
| W8GOC | K4EZY | 80 | KF2TI | JA1XEC | |
| WB3IGR | KE6NDG | AC6BW | LU4FPZ | K5EJ | 53 |
| WB8JAY | N1KI | K7FR | TI2CDA | N7UJJ | K0BBC |
| WF4W | N2NWS | KE4PT | VE6SO | OK1MP | PP1CZ |
| XE1RBV | VE2WBK | KR4Q | WC6DX | W4CCS | |
| | W8PU | KW1DX | | 64 | 51 |
| 86 | W8SGR | N2NS | 73 | JG2TSL | CT1ETE |
| AG1T | | UW5ZM | JF1IRW | | N8OFS |
| K7FB | 83 | VY2HF | SV1RK | 63 | VE9FCP |
| KA9OKH | AA6E | W5TTY | VP2MJD | EA1DR | |
| KB7JJG | DL5XJ | W6TCP | W4WT | KB0RFY | 50 |
| KI6HQT | K1LH | W7AM | | | N6DW |
| KN4MMH | K4SQC | | 72 | 62 | |
| KP4TB | K6JJ | 79 | AB1QB | K4DXA | 48 |
| KT1R | K6UIP | K4RW | N4II | | G8BQX |
| N2NF | K8SIA | KP4N | PV8ADI | 61 | JA9KRO |
| N3MVF | KB3HHA | N2COP | | CU3AN | K5XI |
| N8TFD | KB9LIE | N5YJZ | | | KI5KC |

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|---|---|--|---|--|--|
| N6DBF N8MR NP3IR YY4DNN | 36 JH9DRL OH4UI | WB7QXU | PY2XAT W0JM | PY2GM SP5XMU | EA1AAA EA7ZY IK8GYS JE1LFX JI5USJ JJ1IDW KB8VAO EN91KT M1VFN MU0GSY OK1IN ON5UE PP2RON SK6QA VE2NGH VR2XMT W1ZR W2ZF YL2CZ |
| 47 HB9RYZ | 35 GI4OWA LU9DO | 25 EA4/K1WE | 16 N6VHF | 10 DL4CF HB9BOS PA5KT SV2DCD TF3Y UR7DWW | |
| 46 LU2DX | 34 G4SEU HB9ALO LA2QM UR5WA | 24 EI2JD F4BDG KS4YX LA6OP ON6AB PA7TWO | 15 9K2BM EI2GLB HB9HIT HL4GAV JR3UIC LU5FF PY2RN UT3UA UX0DL WC2C | | |
| 45 JA6WJL K4TXJ | | 23 GM4ILS HB9G JL1UXH K4SLC | | 9 DL7BA EB1EWE EC7ZK G6BFP JA1MZL JA2FGL KB4YKC KD3UY | |
| 44 WO3T XE2YWH/1 | 33 HL2IFR W8GC WB4SON WB8TGY (EN72) | KP4EIT W8MK | 14 HB9FMN JA2XCR KB8DVT PV8RR PY2OC W9TTY | | |
| 43 8P6SH CT1EEN HB9RUZ K4ZIN SV2AEL | 32 N3LRH NP4TT SM6WET | 22 9H1SP IZ3ENH | | 8 DK2LO JA1CPU JE3PCP N8RO OH8LXT | 4 CT7/RC2A EK/RX3DPK F1DFR IV3GOW JG1JPE JH7IPR JK6DXD S51NM UT5EL XE1SAX |
| 42 TF3JB | 31 HA5PT | 21 EA1YN | 13 K4WY PY2MC W4PWF | | |
| 41 K0BBC/R | 30 E72X JA1WSK JL3LSF JO7WXN WA6DNR | 20 CX1FK DM2RM HL4CJG I1FQH N1WC PY5EW W8LR YL3HA | 12 EA3GP F4ESV HB9DDZ IK2RPE JE2UFF JK1UNZ JN1RQV N1IW PA7RA ZS6WB | 7 G8APB HB9GWJ IZ0INX JA2NDQ JI2UDK JJ2NWI LA3DV N5ORT NJ4Y ZS4TX | 3 DF1ZN DJ5AV DL2KQ EA1AR EA4D F1RAF G3LHJ GM4CFS HA9PP HL2ZN IK0WRB IK3ITB IK8EPC IW3GJF JH7IMX JM1GHT JN1BPM JR6IQI PY5IP SA7CJO SV1VN |
| 40 E75AA JF1LMB JR0QFA N6PAZ WB8TGY | 29 JE1VTZ OE4VIE SP5APW | 19 EA6BB JI4WAO PY2HN SP8NR | | 6 CT2FEY DH0GSU DL1TRK DU0A EA8MT EI2JC JA7NGE PY2VA | |
| 39 AA5PK YL2JZ | 28 CT8/K0RUI JA6CRP K0FMI OH3DP | 18 AJ6V KJ4EU OE3SGU VE6TA (DO31) W0HBH | 11 A65BR DL1TS DL2OE EA4DAU EA4ZK G4CTY IZ4GWE JA2KVB PY2DV | | |
| 38 DD3KF DU1EV IZ8EDJ K8YSE VK5PJ | 27 IZ4DPV KC9ELU WP4NIX | | | 5 DL5LH | |
| 37 BA7NQ JA9APS | 26 HL2WA | 17 G3LZQ | | | |

W1CBY IK5BSC
WD9EWK (DM43)W0AFS
YB1TJ IZ0BTV
YL2CA IZ3DBA
YL2MU IZ5FSA
 JA1GZK
2 JA7DPC
5B4ALJ JA7VXB
7J1ADJ JH8XVT
9A2GA JJ1PFC
9K2NO JL2ULM
BV6CC JN3ONX
CO6CBF KC3KJQ
DF8FT KG4JSZ
DK1CO KH6WI
EH4BPJ KP4DER
ES8JX MM0INH
F5TMJ OK1UU
G0THY ON6NA
G4DDL OZ1IKY
G8GNI PU5SVE
GI4ONL SM3GBA
IK1IYU SM6LPG
IK2GOQ SQ5NRY
IZ8XQC UN8G
JA6AVT UR5EDX
JA6SZV VR2VGM
JA9FAI WB7VUF
JP1HDK YO8WW
K7LY
KEN IN NEBRASKA
LA2CQ
OH3KAV
SV1XV
SV3FUO
YB2DX
YL2KF

1
3A2MW
9A2EY
BD4UJ
CT1AHU
DH8BQA
DJ3ZF
DL2DCX
DL4ZAB
EA3WD
EA4GQS
G4VSS
G6MXL
G7SQS
G8TTI