

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 (13 Mar 2025). 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 | W5AJ | 483 | 473 | 459 |
| AA0MZ | W5FF | AC0RA | NQ7R | K4MY |
| AA5AM | W5KI | K0TPP | WB0O | |
| AA5C | W5OZI | K1USA | | 458 |
| AA7A | W7GJ | W0VTT | 472 | KG5THG |
| A15I | W7JW | | A11K | N9BCA |
| K0GU | W7KNT | 482 | KB7ME | |
| K1TOL | W7MEM | AD6D | N7ZO | 456 |
| K4PI | W9FF | KX4R | WD8JJA | N4JQQ |
| K4XO | W9JN | | | |
| K5RK | W9RM | 481 | 471 | 455 |
| K5UR | W9XX | W9VHF | AF5CC | K4SO |
| K5WE | WD5K | | | |
| K7CW | WQ5S | 480 | 470 | 453 |
| K7ULS | WS9V | K5GZR | WO7R | K4YMQ |
| K8SIX | | WB0ULX | | |
| K9CT | 487 | XE2CQ | 469 | 452 |
| KA9CFD | K7MAC | XE2OR | K7BG | N5BO |
| KA9FOX | K7TM | | N4TB | W3UR |
| KD5M | K9YY | 479 | | |
| KG5CCI | N0AKC | KM0T | 467 | 451 |
| KM0A | N7CW | N5WS | AD1C | XE2K |
| KO9A | N7IR | W5WVO | N5EKO | |
| KR7O | N7NW | WA7HQD | | 450 |
| KV5W | N9ISN | | 466 | AJ4F |
| N0LL | NA6L | 478 | KA0JGH | N9BX |
| N0LWF | | AE5B | KB6NAN | |
| N0PB | 486 | | ND4X | 449 |
| N0TB | K1TO | 477 | WB9CIF | KF6HI |
| N1AV | KY7M | K0BJ | WX7M | W8TN |
| N3SL | N0KE | NC6K | | |
| N3XX | WD5COV | W9RN | 464 | 448 |
| N5DG | | | KB9OWD | W5XC |
| N5OMG | 485 | 476 | WE9R | |
| N6JV | K5ND | KC7QY | | 447 |
| N9LB | K9MU | KC7V | 463 | K4HB |
| N9UM | N0POH | | VE3EK | KS7S |
| ND0B | W3IP | 475 | | N4SC |
| W0FY | | N5KO | 462 | |
| W0JW | 484 | | K6ZH | 446 |
| W0LGQ | K0SIX | 474 | N6ORB | K6EID |
| W3CP | N7KA | N4WW | W5EME | N4QS |
| W4UDH | W5VY | W6XK | | NV4B |
| W5ADD | W5ZN | | 461 | |
| W5AFY | | | NA9RB | |

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|---|---|---|---|---|
| 445 KU7Z N5NA N8OC | 432 K6GXO N6KK W5TRL | 420 KK4MA VE3LYC | 403 NH6T/W4 | 387 AA1ON K2TER KV4T N4CH |
| 444 KB8VAO N7BAV NI0G W4DR | 431 K0TLM K8ZM N2QT WA1EAZ | 419 K7NN W0GN W5AL | 402 K3FM | 386 K8JH N7IJ NN4R W5TFW W7AH WE4S |
| 443 AB4IQ K4XP N4MM N9PGG NE1B | 430 K1TEO KF8MY N5SYV N5TJ | 416 K4RWP K7ND | 400 NJ6D W0JRP W0RH W3UUM | 385 KF0M NK1K VE6MB W4WTA |
| 441 K8TB KD3CQ | 429 WA5JCI | 415 K5OMC K7AWB KO4MA W0GJ WB5JID | 399 WA9DU | 384 AB4SF K1GG K8ROK |
| 440 AG9S KB9DAK W2IRT W3LPL W5THT | 428 K9APW KP4AJ N2NL N4QWZ N4TL | 414 AH0U K7KQA | 398 K7SMA N8IEZ W1NG W5JAY | 382 K5PI K6VHF VE3YXO |
| 439 WB7CJO WB8ZBT | 427 N4LR NM5U W3LL | 413 WA9LFO | 397 K5RT | 381 W3VZ |
| 438 K1HTV | 426 K4ZOT K8ZR N5OK XE2X | 411 K9MK N9EAT | 396 KB8U | 380 K7MCX NE6I WA5LFD |
| 437 NY0V | 425 K6ML | 410 KE7SW KE8KMX KI8G N4HN | 395 AA5XE K0AZ K5WBM KF7CQ | 379 KZ2I N8WNA |
| 436 K3SX K7PI N9FN W3TC WB8ART | 424 N4UFP N9AKR W3EP | 408 W7BA | 393 K7XC W4TV | 378 AG4W WR7X |
| 435 K9KLD KF6A | 423 AJ4A NA6MG | 407 W4AS W5CIA | 392 AF4HX N4UFO W6OMF | 376 AA5JF K8GI K8VFX N2WK |
| 434 K1SIX | 422 VE6WQ | 406 AK3E K6FG VE2XK 6M FN07PJW4AVY | 391 N1EVK | 375 K6QG WB4OQX |
| 433 W9WO | 421 K8ROX WB8BPU | 405 AA4SC K5CKS | 389 NE9U | |
| | | 404 N2ZX VE4EAR | 388 AE5FM K0IP W4WRL | |

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| 374 AB1OC KV7K N6GP N7DB | 362 WA5OLT | 347 KT8O | 335 K5FUV K5FZ K9QVB KB4MRX W9GKA | W2JU |
| 373 K4SSO | 361 K7XB K8BL K9NR N7MB N8KOL NG4C | 346 W8LMG | | 326 K2ZD K6LMN K6TDI KD5XB NG7M VE1JBC W7JLC WF7T |
| 372 W5MO | | 345 W3XY XE2YWH | 334 K0OOK K3TRM N4UFO (EM95) N9DR WB5TOI | |
| 371 WA6BYA | 360 AA4FF K6UM (CN85) N3OC | 344 AC9DX K6FW KB0PE KG8P N9XG W1OW | | 325 WA2AEY WB4KTF |
| 370 K5TN KN4SM KS4YT N3MK NT0V | 359 NI0P | 343 AB4EJ K5EK N3RC | 333 KM4HI KN4NN N0IGZ N6KZ W3GQ | 324 K9SH KU4A N2BJ N8HRZ VE3TMG |
| 369 JA7QVI KF8UN N2DPF | 357 K4LVV W5PR | 341 KB1EFS KD7DCR NX7U WA7YAZ | 332 AA7UN N4JDB N7KDT VA3IKE W9GM | 323 N8II W4MAY W8KEN |
| 368 KB0V W5RCI W6GMT | 356 NY1V | 340 KE4TH N0AN | 331 K8WDA KC0UDO N4MW VE7BV | 322 VA6SZ |
| 367 AA4ZZ KC4HW K10E KR4BD NT9E W7YAQ | 354 K0DEQ | 339 KE4BKL VA7FC W5VAS | | 321 NC7B NS4C W9VA |
| 366 KI7JA W7FI | 353 AF2K K0CS K8EB | 338 VE3SXE WA5KBH | 330 KB8MBC NK0S | 320 K0VG N4DW |
| 365 K4JJW KG7CW WB4EVH | 352 NZ3M VE3DS W0KKK W1JR WA9PWP XE2ML | 337 K0DD K8ZES NU6S W9EWZ WA5RT WW0E | 329 AA1QD N2JJ W1DYJ W2OR W8WG W9DCT W9XA WX4G | 319 N7US W4ER |
| 364 AB5EB N6QQ | 351 AA4FL K5DTC | 336 FG8OJ K5KDX K7BV K9QVB/9 VA2WA WO9S | 328 K6ME N5PT W2CNS | 318 N3ALN W4HY |
| 363 W4NH | 350 AB9BH N6VI N8YO | | 327 K6EME KJ5RC N0YO | 317 KA8SYV N3PS W1SKU WA7PDC WO2T |
| | 349 KA0BAD | | | 316 K3FN |

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|--|--|--|---|---|
| KA0ABA N1KDO W4UCK W9BWR | WA9M | N7NT NA5Z W2HRO | K0KP K4DET KX7L NJ2F (EL96) RETIRED | 275 K1MAA K2NJ N4GG W0FK W8PI |
| 315 K5VH KG6AY NY2NY | 304 K6IPF W4FC WA0GUD | 294 JG1TSG K6JSV | 283 W8OP WA0FQK WB0CQO | 274 KB1DMX |
| 314 KU4XO | 303 EA8DBM K8TGC K8TL N7LAN | 293 K3AX K4KJZ N4JJ N4MI W2GKR W4VC WA2IIE | 282 AA0ZP K5TA N0GZ N8JCM W4WM | 273 K2BLA KM4H KV1J WB0OQV |
| 313 K0TC N6NR NF4A W4GLV W5RKN WA1NLG | 302 KB2TGU W3TI | 292 KJ6P W1SSN | 281 K4OY NL7CO W2YE | 272 K0PG XE1AO |
| 312 AF6O KA2GOJ WB3LHD | 301 N0HJZ N2ZZ W7IB W9OBG WB0TVY | 291 K1ST KS4S W1WHL | 280 K2UU N0KV NM5Z | 271 K7NII KB7FUV KM3V N9JR W3HHN |
| 311 AC9S KM3T KS4XQ W2BZY W5DB | 300 AA4V K0PHP K0SRL KB6VFC N3KN WA2BAH WX0Z WX2S | 290 W3HDH WA8EFK | 279 AA8MA KF9UG N3JPU W0VHF (EL87) WA4NVM XE1FAS | 270 K4SPD KC9FQD N2LIV W4QK W5DNT W7JY WZ9B |
| 310 AA8SW N1NK NJ7G W9KVR WO4DX | 299 VE6WK W1LE W5SUM W8UV WB5GVY | 289 K4MM K9FA N5BCA NQ7G W4LTJ | 278 AA9D AJ4W K3JT N0LNO N8BJQ NN1N | 269 K1GJQ K2IE K3ZO KD5R N5EPA N5WD VA2CY |
| 309 AA4LR VE3XN | 298 AG1A KD4WSC N4IQ | 288 HC2FG K1NU N6AR W1DU W4HLR | 277 AC7JM JR1LZK NS4T PV8DX | 268 K6OJ N9ZTS W0KAN |
| 307 KE5K W3ATV W9RPM | 297 DK8NE N8YQX N9LF | 287 JE1BMJ N8CGY WA8ZID | 276 K2CS K5TWJ K7TAB KE8Y | 267 K8DP KG6EG KX9N N2AMC N7UVH N8EHW |
| 306 K6RO WV9L | 296 K6YUI KC7RW | 285 K5CZD K9UO N0LD WA4HFN | | |
| 305 K6UM (CM88) KF2T KT1J | 295 KE4P | 284 AB0RX | | |

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|------------|------------|--------------|--------------|-------------|
| W4FSO | 258 | 250 | 240 | 232 |
| W5WP | K1BD | AA9LC | AB5GU | AE4WG |
| W9DRB | K2HAT | NW6R | KG5EIU | AI9L |
| 266 | NA2NY | 249 | KIOHA | K5FO |
| K1OA | WB7ECS | CT1IUA | KK4ZUU | N9NJY |
| K1WVX | 257 | K8AO | KO6LU | W0PPA |
| TG9AJR | K0CCM | KQ5U | VA3HP | 231 |
| WB8EJN | K2KA | N1GC | W1VT | K4MIJ |
| 265 | K5QE | 248 | WA2VJL | K6HEW |
| N5KS | KD4MYE | K1ZZ | 239 | KF6GYM |
| 264 | N5DTT | W6VFA | W6RW | W9XT |
| AC8L | PY2XB | 247 | W9YOY/M | 230 |
| K4JAF | WA2HFI/0 | W1FKF | WA3SEE | K1ZE |
| N0TK | 256 | W3TEF | WB1FLD | KO4MM |
| NF1O | K3WA | 246 | 238 | VA3XJ |
| 263 | N8ZJN | JA1UAV | AA3GM | WB0WAO/8 |
| AK4PR | 255 | K0DAS | JP1LRT | 229 |
| K3VAT | JM1IGJ | KK8X | K3FRK | K6RG |
| K4XR | K8MVZ | N5TIT | KV7N | KB9RUG |
| K9AAA | KG4JPL | VE6TA (DO33) | 237 | KD5IKG |
| W7CT | W0NOZ | W4FRA | K3KO | KE4UW |
| WB7QBS | WA8KNE | WI7P | K4QE | N4NX |
| 262 | 254 | 245 | 236 | NN5DX |
| K3CWH | KF8QL | N1IA | K0SU | 228 |
| KD8JSP | N7QOZ | N3XF | K4NK | K5RUS |
| KL7HBK | VE3OTL | VA3CW | KL0S | K7HSJ |
| N4ST | WD5ITW | 244 | MD0CCE | KF2ZQ |
| ND4DX | 253 | AA9RR | N3FTI | N8AIA |
| WA0KBZ | KG4ERR | K8DV | N9ATD | W5HEZ |
| 261 | N2XQM | N3AIU (FM08) | W5AJX | 227 |
| AF2F | N8LRG | N4JRY | W9OO | K8ZT |
| K3TWK | W3SW | VA3ZV | 235 | K9TF |
| KB8UUZ | W9TA | VE3VHB | ND0C | KS9A |
| N3EW | 252 | W0VD | NN9X | W4KXY |
| 260 | AB5A | WD4IXD | VO1GO | W5LUA |
| K6JAD | CT1EEB | 243 | WB6RJH | XE1GLL |
| N6HC | F4BKV | JA1QJI | WT2P | 226 |
| W0PR | K1ACL | K3TC | WZ9W | AF5WN |
| 259 | NN4RR | W4EJ | 234 | GD0TEP |
| AK0MR | VE6NTT | YV1DIG | KE6FCT | JM1SZY |
| KD4ADC | VE6SH | 242 | 233 | N7CNH |
| KG6I | 251 | K3WW | K1AFC | N8UR |
| KN5O | AD5JK | KA3TCC | N3AIU (DM45) | NM5S |
| N1RR | HC1BI | WA8MCD | N9NJS | W0VX |
| NS7K | K1NJ | 241 | VE7VZ | WQ6Q |
| NY1E | K3NK | N6NU | W3DF | XE1YY |
| VE6BMX | KG7NV | W5LO | W8PAT | 225 |
| | NN4SS | | W9TD | AC9O |
| | | | XE1L | K9QJ |
| | | | | KX9X (EN50) |

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| N2WSY N4SV VE3MSC W8AKS WN6W | 216 K7RB N0IS NE1F W5RWF | 208 AI2N CO8DM KD5HIO PV8ABC | WA1MKE WA9ASZ | 192 N1LF N2NB N3CAL N3NR N4LXB N4TV W6MTR W8FN |
| 224 JA8ISU K9MQ WA4YA | 215 AL7OC K2SX KI5FJ N2YU N6KW NA5C | 207 K3HPA N1BCL N8NJA | 200 4A2MAX K4YJ N5AO N9AG VA3VU W1AW | |
| 223 K7UA NI3K NJ7A | 214 KB9PJL PV8AZ VE3SYK WA7AJ | 206 AB0CT AK4Y CT3MD K9YC (EN61) KB0LYL NA5Q W0BNE W4EJG XE1J | 199 K4GHS N3KfV NJ8J W4OEP WB0YEA | 191 K0ITC K9CS KK6OH N9AMW WA2BKN WA5CAM WD4JHD |
| 222 K0YY K2TV K3AJ KA1LMR KD4K W8GJ WA2BOT | 213 K3DFL KI6X W0NBC W8RD | 205 AF4OD K8SD KE4HOA N5ITO N9ATF W8QID | 198 AC8TO N0UK N7EPD NX0I WA7KYM | 190 K2WJ K5DB K5ER KC2DLD N5SMQ N9UA W1ATV W2OO WB0DBS |
| 221 K5WMH K6CQR N0PSJ N4ION N5UWY W4IFI | 212 AB5C JF8QNF KF7NN N2OA N5PA | 204 IT9IPQ | 197 K3EGE N4BAF W3TW W5CTV | 189 KC0MEA W3SZ WA5VKS |
| 220 K7BTW N7XCZ | 211 K9FOH NE8S VE3SMA W2ZDP W5Hnk W6AER | 203 K0VSV K5HYT K5LOW N0HF N8SYF NR0Q W1RM W9GFB W9VOB | 196 JR2HCB K0AIZ K0NR N5DUW W2AMR XE2ED XE2W | 188 AD7KI KD4HLG W4AZR WA7VHF WU9Q WX9M |
| 219 K2RKJ KE5RV W5JMW W6DPD W7ZSL WB2WIH (FN20) | 210 JR3REX K3MSB K9YC KL7NO N1SV N1TQ N6UK WQ9T | 202 K1BZ K5GJR WC7X WF8Z WQ5W | 195 AA4W JA7MSQ K6VDP KC0VDY KG6WIK | 187 K3EA KD3HN KQ0J |
| 218 K1XH K4IJQ K8YC KB8KVJ | | 201 AA7WB KC5FP KO9V KR0I NN0K | 194 K2MRK N3FA N9NFT WF1H WK8A | 186 DJ5FI K6ZZ K8PT K9SG KN4PPD KN7K N0XLR N6ZE |
| 217 KB1HY ND4V W4DEE | 209 AA4IB W5WGF WA4NFO XE2N | | 193 K7PT K9AB | |

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|--|--|---|--|--|
| 185 AD6W KD5BQT KU4UC NA2R PY5CC W3OU W5BPT | N0LIE N0MMA NH7RO VA3DPB W8LHP WA4QMQ | K5YPV KE4SCY | NC4RY VA3WEB WB4KXS | 157 K4FX KB8GC KC2WUF WA7NB |
| 184 AF5Q K0DEW KR4M N1IBM N4BG | 178 KA2AYR KB0EO KB1RZA KG5RJ KK8MM N1ZUK NQ2O VE3NRT W0ZY W1MAD WY7FD | 172 AB9KZ K5ZED KI4PKW KJ6HI VE2PN W4ABC | 165 K4DXT KD5HPT N1JFU W0RIC | 156 K2KJ N3RN N9KO VE7VDX |
| 183 K5RQ N0FJP N0UBL W2UDT | 177 AG4ZE K2QQ KI4BWW SM7FJE W5ZG WA8UEG | 171 AA4PB HP2AT KC5GSK KC5YCH KI4TZ NS3L W1PX WA2KBZ | 164 K2SD K5VWW KD0UHN KF9US W4CSW WK7G | 155 AE4M K3TD K6XN N7AU N9OBE NY4I TG9ANF VA3NQ WV8DX |
| 182 4O3A AJ6T DF3CB FP/KV1J K5GMX K8WK KK0DX W2CCC XE1CL | 176 AD5ZA EA5BY K0DI KX9X N5QGH NP4BM W5AFD WA5IPS WW2R | 170 K9TVG N4GBK N8CN NA2U W4IHI W4JKC WK3V | 163 K2JF K2YSY N5XZ | 154 AE4NT KB9VMW W3ZQN |
| 181 AB9FN K4CMS K5HDE KB8YKR N3XJX N4DTF NY0A W4RBO W9BS WJ1B | 175 K1DT PV8BR | 169 K6XC KD5OMJ N2BEG N5XES N7PHY VE3HHT W8KNO | 162 AF4GK K0QB KA1R KD4TDI W9JJB W9VS WA1Z | 153 AA4NC AB4GG K7AD K7LOL K7ZD KW0A N1OFZ N2ADV N6DHZ W3DQS W5FI W9ILY WB5ZAM |
| 180 K0OST K4LYN KC1MMC N1RK N6PEQ N6VH WA5RR | 174 K3MD K6WRL KC6ZWT KG7P KU0A N1MGO NA2NY (ex-NA1VT) NA6O W3SO WA2PNI | 168 KG5ZMQ W8WEJ | 161 K4EA KB3CWQ N2YBB V44KAI VE3LC W4HOG | 152 AA6I N1NUM N2WM NU1T UT7QF W6IA WO4G |
| 179 K1EP KU4WD | 173 K2ZZ | 167 K4MQG KB1YNT KE5EP LU4FW N0NHW NO0T W1BAT | 160 K5IQ WA3DRC | 151 K00Z W1ZT W2DXE |
| | | 166 JA1OVD KC2GHT N5VU | 159 K4MZ NS7B W1EME W4TTO WB8NUT | |
| | | | 158 K8CR KI0D N2CG | |

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| 150 N9LAH VE3OAT W7APM | K8WU N9DI W5MPC WO7GI | KU0G N2ZA N3FX NA2AA W2PD W4OV WB2JIL WY0V | GM4UYE HK3W KE5FXE N3AIU (DN70) N8GOU W4TKI WA3WZR | KC8KSK KF4NEF KM5LY KM5SC N9WBR NZ6N |
| 149 AB6CF K4SAN KK9H WB4VHF | 143 K0KVR K6JBH K9QFR KB8RJS N8URE (FM19) NA1VT W0HNM W0UHL WB0MMC WM5H | 138 AC0XY AI6O JA6RJK KD7WPJ KE0A KE3D KE8RO KQ4KX N3XH | 133 KA5ETS KC1RET KE1VT KM8V N7T PV8AJ W0RT W4GE WW7Q XE2O | 128 KC7QAG KJ6SDF KN4DMN W0WT W5ZO W8FR WB2WEO WQ7F |
| 148 AC0DQ AG0A G0OIL K0RU K7IU KB2YSI N0TM N5ZBI W6VNU (CM88) WB6RAB | 142 N5RMS NA2X NC4VA W5SWV WA5TKU WS4V | 137 N1SZ N5JGK SM7AED | 132 AB3CV IC8TEM K5VG KW4G N4PPH NE1I VE3TM WN6K | 127 AA9RK JA3LZS JR2LJO K3GYK K7UV K8AC K8OS KB3OZC KB9TLV KC0RQH NO8D VE2JWH W1FLD WA6BIL |
| 147 AF6AV IZ1LBG K6PSP KC1BUF VE3CX W4YCC W5WOX WA0VPJ WA3YGQ | 141 K4AR K9ATX KT8TD N9FIV W4FS W4POT W6ZI WB9WHQ WR7AY | 136 I0WTD K0XXX K4SX KC5LK KC9AXZ KJ5RM KV1E NO1R OE6IMD W2JCN W4AVV W7UV XE2JS | 131 K3NAT KG9R N2CJ | |
| 146 K2GW K8YTO KB0YH KB5ZEA KC2TN KM5TY N4HID VA2RC VE1VOX W4HFZ | 140 AC5DK CO2WF CT1BWU JA1AFR K1UO K7SAM KC0MEZ KC8TMU KJ4KVC N1EN N3VOP NJ0U VE3KY W4TUN W6DQ WA4KXY | 135 CU3EQ K4MWB K8ZIZ LY3W N4DB N8XE W6BXQ WB8BZK WW2DX XE1H | 130 AB0X AK8CW K0GUR K4JKB KC4NX KE8RJU NG9R VE1DX VE2TZT W0PHX W2LES W3FEY WA2SEI WB4YDL WW5W | 126 KJ7G N0BDS N7DGI WB4HUC YL2AO |
| 145 KD7YZ V31MD VA3TTX WA4JA | | | | 125 AA7DK K3PU KC5DRI KD2NF NT7C W2AJM W3UQH W4DFU WA6POZ WB4OMM WE1P |
| 144 K0TLG K5TDW K6JRA K8MN | 139 IZ8FFA KC7JPC | 134 AB1NS AB4GE BA4SI C6ABB | 129 8P6ET JF4VZT K0KD K5QWO | 124 K0DLW K8VA KB0HH (EM06) |

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|------------|---------------|------------|------------|------------|
| KD5FTD | KD4MZM | 116 | KA7T | HB9BZA |
| KM1C | KD5BRF | IK7EOT | N5HMH | JA9IPF |
| KT5MR | KE4SCY (FM06) | JR1BAS | W1TR | K5OPB |
| N0SL | N3YPJ | K4RGN | W5DM | N3MWQ |
| N9AZZ | VE1JC | KI6QDH | W5DQ | N5DD |
| PV8AAS | VE3XK | KU5B | W6OAT | VE3SUB |
| W0PE | W4LVH | N0VR | W7IV | VE7IG |
| W1TAM | WA6RAY | NO0B | W9PN | VY2RU |
| W7YM | WB0WAO | W0DHB | WA8TWM | W4AMP |
| W9CDL | WD4OHD | | WX3P | W4CRN |
| | | | XE1GK | W5AAJ |
| 123 | 119 | 115 | 111 | W8EH |
| AC7AF | AE5AU | K9MMS | N0SLT | W9VNE |
| K9SM | K0AWU | KE6TVM | N8IK | XE1R |
| KB0GT | K1ZN | KF0QS | PC3T | |
| KB0STN | K2SQS | KF9AF | W8GBH | 107 |
| KG6DHQ | K4MSG | KM5FA | WZ8P | JA3EGE |
| VE3TG | K7JIZ | N7VGO | | K5UIC |
| W1HS | KF7PCL | VK9DX | 110 | KF7PG |
| W3SE | KP3V | WA3BZT | K5KR | KI9A |
| W4PRZ | KT0P | WC7V | K7LD | KK4LUM |
| W5EWF | KW7N | | KD5J | N3TTT |
| W7MHW | N4UPX | 114 | KI0F | N9OI |
| W8BI | W0QC | AC8HU | KP4JRS | NF0T |
| W8KHP | W4SW | K2RET | KQ4LA | US0KW |
| WA8WV | W7QQ | K3RTU | KX5U | W2ODH |
| WB2RVX | WI4T | K9AAN | N5TIF | W2TTT |
| | WM9M | KC4GCK | N5YM | WB4PPW |
| | | KG9Z | W7JET | |
| 122 | 118 | NF8M | W7UP | 106 |
| K7AED | J68AS | VE1WOW | | EA4DEI |
| K7OGW | K4AZV | VE3IRR | 109 | K0MEI |
| KA9JAC | KA4LBD | W2JLK | AK6ZZ | K5BJW |
| KB4UF | KF6MXK | W2ZQ | G4BWP | K7BWH |
| KB5WFE | KI7BP | W4ALF | IW1ARB | K7JE |
| KC5UGX | KT8X | W4UFO | K2DSW | KB0TIJ |
| N5HYV | KW4BY | WO2C | K2JGL | KC7ICM |
| VE6PY | N1QDQ | WX4US | K2OO | KE5JXC |
| VE7JAC | N3JNX | | K5DNL | KJ6MBW |
| WD0GTY | N5EIL | 113 | K9GY | KK2DOG |
| | NZ1I | AB4PM | KE6GLA | N0RQ |
| 121 | TF3JB | AD5MD | KJ6CA | N1USB |
| AE1P | W2AC / WB2ABK | K3DQB | KZ7N | N2IPH |
| K0MFI | W2AC/WB2ABK | KD4BPZ | N8TMW | N4CE |
| K4HBI | WB2KSK | KD6VCD | N9TTX | N5FPW |
| KB2WAL | | KM5OL | VE3AAQ | N5YHF |
| KB5MH | 117 | N3JDQ | W0YJT | N8HM |
| KE4JFS | AB5J | N4YCI | W1OP | N9XMU |
| NE0P/9 | K4WS | N5YK | W4ZRZ | VA3OKG |
| UR0MC | N4USG | W0BM | W5MPC/1 | VE3AJY |
| W8DN | N5JEH* | W8MSP | W7RJR | WB6VYH |
| WB9TFH | N5LPT | W8VW | WB6YIY | WQ9F |
| | NA7L | WD0ENC | WB9W | |
| 120 | NU6V | | 108 | 105 |
| EA1YO | W6WE | 112 | CF3VRQ | AC4Q |
| K2CYE | WA1TBV | K2MLS | | K4SJA |
| K4CGY | XE2PXN | K3GD | | K9MAL |
| KD0R | | K5WTA | | |

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|------------|------------|------------|-------------|--------------|
| KB3JGS | KF0AIJ | N8VEA | KC2IEB | WA3TLT |
| KC0JYT | KF4DVG | N9DVS | KC6X | WB1GQR |
| KC4KK | KR4NO | ON9CMR/WO | KD4MWO | WB2YDS |
| KF4DGS | N0YXE | VA2LGQ | KD6RUH | WD0E |
| KJ7TH | N1JIF | W4LLP | KR4UA | WH6LR |
| N4NQY | VE7DXG | W5KBD | M5MYH | WT5H |
| N5SAN | W0TF | W7ISG | N4FV | WV5Y |
| N7YY | W3LEO | WB8IMY | N5OHL | |
| NE9O | W6IT | WD5IYT | N7HRT | 97 |
| PU4JOE | W6XU | | N7JPF | AB8M |
| VE3VRQ | | 100 | N7TE | AJ9C |
| W8MIL | 102 | AC0FT | N8GHZ | K0HB |
| W9RVG | AA9MY | AI2S | N8YV | K0JQZ |
| WA4MYO | AB8JH | AI9U | N9MKC | K0QEI |
| | AD6KH | K2UA | NB5R | K0SH |
| 104 | K0HAQ | K4UQC | NH6CJ | K0YQ |
| AB9YC | K3HW | K5GM | NI5W | K3HZO (FN20) |
| AC5K | K5VR | K5KV | NS2P | K4GTR |
| AC5RN | K9AM | K8IJ | VE2HAY | K4JQU |
| AC9QR | K9OHI | K9CC | W2HOG | K8XF |
| IK4DRY | KA3ZLS | KB9ZLB | W2VU | KA2BSK |
| K5PPP | KB8CR | KC2HLI | W5JLC | KA7EII |
| KB9RNO | KC6WFS | KC8CC | W6TJU | KC0YBM |
| KC2TR | KC8DMN | KC9CMT | WA1LAD | KD5CKP |
| KD9GKL | KD8NYO | KD3SW | WA5TRX | KF4KSN |
| KJ7OG | KE1AU | KE5CVM | WB5NHX | KM4NYI |
| KM6WXB | KJ4M | KF0Q | WB7VVD | KT5WB |
| KO4LZ | KR5V | KG5X | WK5X | N1SFE |
| N0STP | N1HOQ | KJ5OA | WW2R (EL09) | N1VMJ |
| N1LDY | VE7ZD | N3TBB | | N3UMA |
| N2FBQ | W4RVZ | N4NIA | 98 | N4BH |
| N3UPS | W5DPT | N5RZK | AC2RL | N5OTY |
| N7AGF | W5OV | N5XTR | AD8Y | N6MA |
| NJ1H | W7UT | N7EME | K0KC | N9APK |
| VE2PIJ | W9NFL | N8COP | K0UD | N9IO |
| W1TE | WA8EQP | N8XS | K3IXD | N9KY |
| W1ZE | WB5FDP | VP2MRM | K3QIA | NK7C |
| W4KVS | | W2CH | K4OP | NU0Y |
| W6ZQ | 101 | W4/KL7GLL | K5HOB | VA3FIN |
| W9EBK | AE7V | W4OZK | KA1EKR | W3QT |
| W9MDB | K0RAR | W8BZY | KE4LGL | W4CWA |
| WB2VUO | K0SBV | W9DQ | KG4YOU | W4DAS |
| WB8BZK/VE3 | K0WJ | WA5TLP | KG7E | W4ID |
| WG3K | K2NUD | WV9E | KJ2G | W7DN |
| | K5DWI | | KK0CQ | WA6OSX |
| 103 | K5HX | 99 | KY0Q | WA9LEY |
| AA5CK | K7SYS | AB0SD | N0JJQ | WB8RVK |
| AB0YM | KB4KBS | AB3TM | N1JHJ | WB8ZTV |
| AB5SS | KC6AWX | K0YO | N3LRP | WB9PNU |
| K2OY | KC8CSD | K4KEW | N5TEY | WE8L |
| K4MVL | KG8WB | K4WQ | N8AID | |
| K6USY | KG9IL | K4ZO | NO5X | 96 |
| K8ZEE | KL2R | K5VPQ | NO8R | AD5OW |
| KA1W | KR4WM | K7DD | VA3VF | AE4TQ |
| KB0FHP | KR7LD | K7PAP | W2KRP | AK4F |
| KB2SGX | N1IX | K9ZZE | W6TE | K2CK |
| KC9FFV | N4AOE | KA0ZEE | WA2FGK | K2UF |

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|-----------|-----------|-----------|-----------|-----------|
| K2UNK | N5KI | N7UN | W3ZGD | KB2YWU |
| K4EQH | N9IV | N8WWM | W4GPM | KB3IAI |
| K5CRJ | N9LJX | N9DD | W5DMT | KB3NDS |
| K8EMR | VA3KS | N9UNX | W7EIR | KB7AZ |
| K9OT | VA3PZ | VA3MA | W7TRX | KC5POV |
| KA2NDX | VE3KZ | VE3RX | W9IFW | KC8LGL |
| KA3HED | VE3SPW | VE5MX | W9NED | KG4QWC |
| KB5GI | W3UA | VE7AB | W9WI | KI3O |
| KB8PNS | W4YZJ | W2GR | WA5ICA | KI5BLU |
| KC0HBP | W5ADA | W3IPA | WB5CON | KM7N |
| KD6PY | W5CBF | W3TA | | KM9I |
| KI5TE | W5RCQ | W4LNG | 92 | KQ6K |
| KM2O | W7JWC | W5ODD | | N3PPH |
| KM5NU | W9SX | W5PUF | K1EY | N3WCM |
| KS4V | WA2ONK | WA7LHZ | K5GDX | N7CZ |
| KT5RR | WA3I | WA9BXB | K5TDA | N8DEZ |
| N0WVU | WA4WR | WT9U | K7FU | NR4J |
| N2LID | WB2SIH | WV7S | K7HKR | NU4N |
| N2VHZ | WD8DOT | | K7UWR | OE9KFV |
| N2XK | WS4S | 93 | KB0PQP | VA2BBW |
| N8PAQ | XE2AT | AG2A | KC4JNW | W2SUB |
| N8YBY | | AG6CV | KD4QMY | W4MLN |
| NT2A | 94 | AI8F | KE4WBO | W5KDA |
| NW5Q | AA4RP | K0IW | KG4URP | WB0NRV |
| NY2Z | AB4VT | K1PTF | KR7X | WB7X |
| VE2DCP | AD1DX | K1ZK | N0RC | WC4V |
| W1HMM | HK4SAN | K2AK | N2SG | XE1GZU |
| W4KK | IK8YTA | K2MTS | N3GH | |
| W4TMR | K0ARM | K4DAM | N4VN | 90 |
| W7JHS | K3BEE | K5TRI | N5QO | AA0LM |
| W8DM | K3TUF | K6RM | N6FD | AB4WL |
| WA3EEC | K4JRK | K7IP | N6RPM | AB9DU |
| WB0M | K4LDC | K7TRK | N7DED | AF5BG |
| WB5KJE | K4NNX | KB0USF | NS6E | DL1SMA |
| WP4LNY | K8GT | KC5TGT | UT5JAJ | JH4JNG |
| | K9DOG | KC5TT | W1PV | K1HC |
| 95 | K9SUL | KC9TTR | W2ACY | K1KA |
| AE0G | KA2F | KC9UL | W2CVW | K3CWF |
| AE5EO | KA9UVY | KD0QG | W3ACO | K3UAL |
| K1PNQ | KB7AK | KE6AZX | W3HZU | K4AAP |
| K4ED | KC0AUY | KE6UMW | W4BP | K4FTP |
| K8KFJ | KC3AK | KE8RPJ | W4LIA | K4XZ |
| K8ME | KD4VRZ | KI0J | W6NS | K8EAB |
| K8VD | KE3WM | N2BX | W8JV | KA5TJI |
| KD7WH | KF0LA | N2YTF | WA3JKB | KB5FHK |
| KD8DR | KG4NLZ | N3AO | WA4EEZ | KB7BSA |
| KD9ZR | KU4JZ | N3ZBK | WM3O | KK4DZP |
| KF6XA | N0LNE | N4GOA | | KW3DX |
| KI0SK | N0LP | N4YHC | 91 | N2ULL |
| KW9U | N2SU | N7EGY | AA0CW | N4BRF |
| N1XK | N3JBH | N7JI | AD3Y | N5BA |
| N2SLO | N3XBG | N7KSI | CO2WZ | N9JJ |
| N2WLS | N3YUG | NA9D | K1UR | N9MSG |
| N3WAV | N5ZMP | VA7QI | K4SPA | VA3XOV |
| N4ET | N6HY | VE3WMD | K6YK | W9CPV |
| N5BLY | N6MXU | W0MHK | K7HPN | W9CSY |
| N5ENU | N7NH | W2VTV | K8OI | W9HBH |

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|-----------------|-----------|-----------|-----------|-----------|
| WA2BEV | K9JF | KA9OKH | K6JJ | N9RC |
| WA8OJR | KB2KIR | KB7JJG | K8SIA | VE3CFK |
| WD9HCF | KC1GWX | KI6HQT | KB3HHA | W2GW |
| WE7H | KC3MLC | KN4MMH | KB9LIE | W2SKI |
| WEST SEATTLE AM | KE7RTB | KP4TB | KK7BV | WN0L |
| WH6LE | KE8UM | KT1R | KU4WW | |
| WT4C | KI2D | N2NF | TG9AKH | 78 |
| XE3/K5ENS | KI4RFM | N3MVF | W7USB | K2QPN |
| | KJ4KW | N8TFD | WD6T | TG9AWS |
| 89 | N1CEO | NZ3O | WD9IOK | W4NE |
| AB1TZ | N2MKT | VA3MDB | WI6Z | |
| AG2AA | N2ZN | VA7LM | XE1MM | 77 |
| AG7NR | N4CAG | W8IW | | K1IFJ |
| G4NBS | N4GN | WA1PMA | 82 | MI0AYR |
| JQ1TIV | N4KIN | WA4USA | AD4IE | |
| K4BMM | N4UC | WB4GCS | CB0ZA | 76 |
| K5CX | N5VBK | XE2AU | K4JMX | K0WYN |
| K5JAZ | NS3X | | KA5WSS | KI4CYB |
| KA0MWA | NT4TN | 85 | KC5YKX | KI7WXP |
| KF4TVL | VE2VLJ | EI3IO | KG4KVZ | N1GNB |
| KI0G | W2BZR | K1UU | N1SF | N2MH/4 |
| KI4FW | W3YX | K4LRP | PU8TEP | |
| KI4US | W4DL | KB3MXK | W5DAS | 75 |
| KR4U | W4R XR | KC0V | W7YOZ | G4RGK |
| N2GZ | W7HDD | KE4DRF | W8GG | K3PP |
| N5KAE | WA2BTR | KK4AND | WA2ONG | K8QM |
| N8YSZ | WA5MD | N2RJ | ZS6NK | N5GH |
| N9RG | WK3N | N4LS | | NP3YL |
| N9UDX | WV8O | VE3GFN | 81 | W5UC |
| NE2U | XE1SOV | VE7DAY | AB4I | WP4NEG |
| VE3VCF | | W1WV | KE4DZU | ZL3AAU |
| W0HRO | 87 | W3STU | N6MM | |
| W1HY | AC0A | W4IT | N7NEV | 74 |
| W2JEK | AG4I | W4RA | NI4Y | AK8B |
| W2OK | K4JC | W6ST | W3MC | CX4AAJ |
| W4ZMM | K5UZ | W7SIR | WA4ZXV | KF2TI |
| W6VNQ | K5WO | W8DQ | WA8ZNC | LU4FPZ |
| W9HT | K6UIP | W9QY | XE1EE | TI2CDA |
| WA7SDI | KB1VUN | WA4WKL | | VE6SO |
| WB3IAL | KC8NAH | WD4LSS | 80 | VK4CZ |
| WM6Y | KE6WOX | WF4R | AC6BW | WC6DX |
| WQ5C | KI6RRD | | K7FR | |
| WR5AY | N0ELA | 84 | KE4PT | 73 |
| XE2NL | N2CJN | CT3FT | KR4Q | G4FKA |
| XE3DX | NA5DX | K4EZY | KW1DX | JF1IRW |
| | NE5S | KE6NDG | N2NS | SV1RK |
| 88 | NI5F | N1KI | UW5ZM | VP2MJD |
| AA4QE | NN7RM | N2NWS | VY2HF | W4WT |
| AE0DX | W8GOC | VE2WBK | W5TTY | |
| AE4OF | WB3IGR | W8PU | W6TCP | 72 |
| AF4MI | WB8JAY | W8SGR | W7AM | AB1QB |
| K1RS | WF4W | | | N4II |
| K3TN | XE1RBV | 83 | 79 | PV8ADI |
| K4XD | | AA6E | K4RW | |
| K7CTV | 86 | DL5XJ | KP4N | 71 |
| K7WV | AG1T | K1LH | N2COP | HB9EFK |
| K7ZYV | K7FB | K4SQC | N5YJZ | K0GW |

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|-----------------|-----------|-----------|---------------|--------------|
| K4GK | UX1UA | 47 | 34 | W8MK |
| K5WPN | | HB9RYZ | G4SEU | |
| NP4TT | 60 | HL2IFR | HB9ALO | 22 |
| W2YR | IZ4DPV | JE1VTZ | LA2QM | 9H1SP |
| W3FGP | KP4JFR | | UR5WA | IZ3ENH |
| WC5M | S55DX | 46 | | |
| | UR9QQ | LU2DX | | |
| 70 | | | 33 | 21 |
| GI4SJQ | 58 | 45 | W8GC | EA1YN |
| K4BNC | HB9BIN | JA6WJL | WB4SON | |
| KC0ZRZ | KC6NBI | K4TXJ | WB8TGY (EN72) | 20 |
| W2LV | SV8CS | | | CX1FK |
| W2QO | WA2MUA | 44 | | DM2RM |
| W4GP | | WO3T | | HL4CJG |
| | 57 | XE2YWH/1 | | I1FQH |
| 69 | HL2EIZ | | 32 | N1WC |
| K3WGR | IK1ZOF | 43 | N3LRH | PY5EW |
| WD4LBR | N5LJL | 8P6SH | SM6WET | W8LR |
| | WD5GRW | CT1EEN | | YL3HA |
| | | HB9RUZ | | |
| 68 | 56 | K4ZIN | 30 | 19 |
| AA4S | KI5WA | SV2AEL | E72X | EA6BB |
| EH7CD | LU8ADX | | JL3LSF | J14WAO |
| K6CF | NI6T | 41 | JO7WXN | JR3UIC |
| KJ7TEA | | K0BBC/R | WA6DNR | PY2HN |
| KW4OV | 55 | N6PAZ | | SP8NR |
| | JL3MCM | | 29 | VE6TA (DO31) |
| 67 | LA3MHA | 40 | HL2WA | |
| W7YED | US5WE | E75AA | OE4VIE | |
| | WA2EMF | JF1LMB | SP5APW | |
| 66 | 54 | JR0QFA | | |
| K6KLY | AG4KI | WB8TGY | 28 | |
| KK4YEL | | | CT8/K0RUI | 18 |
| | 53 | 39 | JA6CRP | AJ6V |
| 65 | K0BBC | AA5PK | K0FMI | KJ4EU |
| JA1XEC | PP1CZ | YL2JZ | OH3DP | OE3SGU |
| K5EJ | | | | W0HBH |
| N7UJJ | 51 | 38 | 27 | |
| N7UJJ | CT1ETE | DD3KF | KC9ELU | 17 |
| OK1MP | N8OFS | DU1EV | WP4NIX | G3LZQ |
| W4CCS | VE9FCP | K8YSE | | PY2XAT |
| 64 | | VK5PJ | 26 | W0JM |
| JG2TSL | 50 | 37 | WB7QXU | |
| WD5GRW (EM13QC) | N6DW | BA7NQ | | 16 |
| | | JA9APS | 25 | N6VHF |
| 63 | 48 | | EA4/K1WE | |
| EA1DR | G8BQX | 36 | | 15 |
| KB0RFY | JA9KRO | JA1WSK | 24 | 9K2BM |
| | K5XI | JH9DRL | EI2JD | EI2GLB |
| 62 | KI5KC | OH4UI | F1RAF | HB9HIT |
| IZ8EDJ | N6DBF | | F4BDG | HL4GAV |
| K4DXA | N8MR | 35 | KS4YX | LU5FF |
| N6ZDH | NP3IR | GI4OWA | LA6OP | PY2RN |
| SP5QWB | YY4DNN | HA5PT | ON6AB | SV8CKM |
| | | LU9DO | PA7TWO | UT3UA |
| 61 | | | | UX0DL |
| CU3AN | | 35 | 23 | WC2C |
| N0GVK | | GI4OWA | GM4ILS | |
| | | HA5PT | HB9G | 14 |
| | | LU9DO | JL1UXH | HB9FMN |
| | | | K4SLC | JA2XCR |
| | | | KP4EIT | KB8DVT |

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|-----------|---------------|-----------------|----------|
| PA7RA | N8RO | 3 | YB2DX |
| PV8RR | OH8LXT | DF1ZN | YL2KF |
| PY2OC | | DJ5AV | |
| W9TTY | 7 | DL2KQ | 1 |
| 13 | G8APB | EA1AR | 3A2MW |
| K4WY | HB9GWJ | EA4D | 9A2EY |
| PY2MC | IZ0INX | G3LHJ | BD4UJ |
| W4PWF | JA2NDQ | GM4CFS | CT1AHU |
| | JI2UDK | HA9PP | DH8BQA |
| 12 | JJ2NWI | HL2ZN | DJ3ZF |
| EA3GP | LA3DV | IK0WRB | DL2DCX |
| F4ESV | N5ORT | IK3ITB | DL4ZAB |
| HB9DDZ | NJ4Y | IK8EPC | EA3WD |
| IK2RPE | ZS4TX | IW3GJF | EA4GQS |
| JE2UFF | | JH7IMX | G4VSS |
| JK1UNZ | 6 | JM1GHT | G6MXL |
| JN1RQV | CT2FEY | JN1BPM | G7SQS |
| N1IW | DH0GSU | JR6IQI | G8TTI |
| ZS6WB | DL1TRK | PY5IP | IK5BSC |
| | DU0A | SA7CJO | IW0AFS |
| 11 | EA8MT | SV1VN | IZ0BTV |
| A65BR | EI2JC | W1CBY | IZ2CSX |
| DL1TS | JA7NGE | WD9EWK (DM43) | IZ3DBA |
| DL2OE | PY2VA | YB1TJ | IZ5FSA |
| EA4DAU | | YL2CA | JA1GZK |
| EA4ZK | 5 | YL2MU | JA7DPC |
| G4CTY | DL5LH | | JA7VXB |
| IZ4GWE | EA1AAA | 2 | JH8XVT |
| JA2KVB | EA7ZY | 5B4ALJ | JI1HNC |
| JA6QHQ | IK8GYS | 6K5XZE | JJ1PFC |
| PY2DV | JE1LFX | 7J1ADJ | JL2ULM |
| PY2GM | JI5USJ | 9A2GA | JN3ONX |
| SP5XMU | JJ1IDW | 9K2NO | KC3KJQ |
| | KB8VAO EN91KT | BV6CC | KG4JSZ |
| 10 | M1VPN | CO6CBF | KH6WI |
| DL4CF | MU0GSY | DF8FT | KP4DER |
| HB9BOS | OK1IN | DK1CO | MM0INH |
| PA5KT | ON5UE | EH4BPJ | OK1UU |
| SV2DCD | PP2RON | ES8JX | ON6NA |
| TF3Y | SK6QA | F5TMJ | OZ1IKY |
| UR7DWW | VE2NGH | G0THY | PU5SVE |
| | VR2XMT | G4DDL | SM3GBA |
| 9 | W1ZR | G8GNI | SM6LPG |
| DL7BA | W2ZF | GI4ONL | SQ5NRY |
| EB1EWE | YL2CZ | IK1IYU | UN8G |
| EC7ZK | | IK2GOQ | UR5EDX |
| G6BFP | 4 | IZ8XQC | VR2VGM |
| JA1MZL | CT7/RC2A | JA6AVT | WB7VUF |
| JA2FGL | EK/RX3DPK | JA6SZV | YO8WW |
| KB4YKC | F1DFR | JA9FAI | |
| KD3UY | IV3GOW | JP1HDK | |
| | JG1JPE | K7LY | |
| 8 | JH7IPR | KEN IN NEBRASKA | |
| DK2LO | JK6DXD | LA2CQ | |
| JA1CPU | S51NM | OH3KAV | |
| JE3PCP | UT5EL | SV1XV | |
| | XE1SAX | SV3FUO | |