Results, 2004 ARRL June VHF QSO Party

What were your expectations?

xperience is a great teacher; each of us usually considers a strategy to fulfill our expectations in VHF contesting and communication based on our past experiences. Whether you are a single or multi-op, high or low power, fixed or movable, between the collective wisdom of past activities, and the plans for managing a new contest challenge, lots of thought and preparation go into station design, operating procedures, condition and band monitoring,

When the final QSO of the contest is in the log, and the rigs are starting to cool down, do each of us consider—were our expectations met? Was it catching some DX, like ZF1DC, whose Cayman Island team including W4WA and K4BI, provided a new country and grid for many on 6 meters? Beating your previous record of QSO points, grids, bands, or total score? Having all the equipment work as planned for the entire weekend? Perhaps it was some casual operating, gladly giving out "points" to the more competitive operators? Seeking a listing in the *QST* tables, or a scoring certificate?

Conditions for the most part were average for this contest on the down-slope of the solar cycle. Weather was not much of a

factor; there were scattered rains in the Ohio Valley area that seemed to move and dissipate as the weekend progressed; there were other smaller precipitation centers in the Deep South and upper Pacific Northwest.

Gene, NØDQS/R, encountered golf-ball sized hail (again!) as he moved his rover through grids in Nebraska, sustaining a cracked windshield and multiple dents on the SUV, as well as plenty of dings to the loop antennas. Passersby thought for sure he was a storm-chaser. Gary, N7IR, SO portable, found high winds on the Mogollon Rim in DM44 at 7900 feet that almost ended his on-the-air operation.

It was into the fray with the current well-known rules for over 1050 participants who submitted 763 logs for the event. The increased use of digital communications modes—WSJT and meteor scatter—has upped the ante for serious competitors. Despite these relatively flat conditions, grid totals continue to grow. Plenty of scatter QSOs were reported on 6 and 2 with rather short skeds, a testament to the skill and setup of the ops, and to the presence of plenty of that magic meteor dust that makes it possible.

The June contest scoring has been criticized as discriminating to the micro-

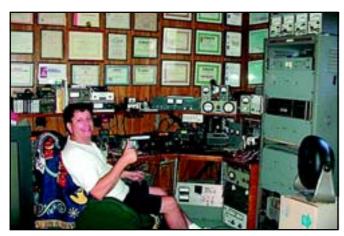
wave frequencies. Indeed, if there are no $\rm E_s$ 6 meter openings or unique 2 meter conditions, the total scores turned in can be limited. There were a total of 117,000 QSOs reported on bands 50 MHz through 432 MHz and another 7463 QSOs reported on bands 902 MHz and above.

Learning and Sharing Information— VHF Conferences

The regional VHF conferences have been great venues for sharing both technical and practical operating information, and learning more about how others contest. In addition, they are opportunities to buy, sell and test gear and learn from others' experiences.

For example, at this year's Eastern VHF conference in April, sponsored by the New England Weak Signal Group, talks by high scoring VHF contesters, revealed some of the operations, radios, towers, antennas and methods that they use to produce their prodigious contest results. Dick, WA2AAU, described the development of equipment for and mentoring of the W2SZ/1 rovers.

The K3EAR "South Mountain" operation in FM19, was presented in a multimedia format. K1TEO gave us insight into his VHF contesting development and



Being the ARRL First Vice President doesn't leave Joel, W5ZN, much time to operate. But for this event Joel was able to rack up enough points to lead the Delta Division in the Single Operator High Power category, just missing an overall Top Ten finish by about 10 k.



Third place overall was snared by the ops at W3SO, including (back row, left to right) W3PAW, W3YOZ, W3TEF, W3BTX, K4VV and Al3M (front row, left to right) K3IXD, WR3Z and W3SF.

Top Ten			
Single Oper	ator,	Limited Multiopera	ator
K2DRH WB1GQR (W1SJ, op W4SHG K9MU KB8U AF1T WQ5W NJ2F K8MR W6OAL	235,470 119,714) 87,768 77,688 77,250 76,032 71,068 66,048 64,092 54,766	K8GP K9NS W3SO K3YTL W3DOG W4IY AA4ZZ K5TR K8CC K2BAR	740,037 583,041 310,464 309,260 295,868 277,911 232,878 205,273 187,616 143,969
Single Oper	ator,	Multiopera W2SZ	ator 1,959,675
High Power K1TEO K1RZ KMØT WB9Z K3DNE KOGU NW5E W9GA N3HBX K1GX	624,921 321,525 255,210 193,802 175,536 137,600 135,790 129,926 126,846 124,800	W3GCX K3EAR W2FU N2PA W4NH W6FM K7CW N2NK K1MUJ	991,935 986,250 424,888 363,424 267,972 226,080 203,451 163,312 126,300
Single Opera	ator	N6NB N6VI	1,292,382 1,156,760
N7IR N8XA KQ6EE WB2AMU K7EH W8CM KH6WZ VE7AAO K9FOH KG6TGI	17,088 7,747 3,850 3,071 2,850 1,320 1,185 522 300 88	NGMU W3IY N6TEB N6DN WØAMT VE3NPB KØPG K9ILT	1,131,156 318,159 195,132 184,640 86,496 75,096 73,108 72,520

efforts from his FN31 QTH in central CT.

Just Average Conditions

Although there were complaints from ops on both coastal extremes that 6 meters just never opened enough to make enormous scores this time, the ops in the middle of the country and Florida had a ball on this band. The LM crew at K5TR managed to top the 6 meter multiplier list and capture 187 6-meter grids. There were 33 other entries with over 100 grids on 6m, and another 101 entrants who racked up at least 50 grids on that band. Many stations mentioned rather short periods of enhanced propagation, with distant grids heard popping in and out sporadically during the weekend. The peak E_s started about 2100Z on Saturday, lasting about 4 hours, and again on Sunday from 1300Z-1800Z.

ZF1DC found their way into 488 logs in 120 grids across the US, adding the excitement of some exotic DX to the delight of many participants. Station 4C2X, with operators N6XQ, W6YLZ, XE2ED, XE1KK, XE2K, XE1UN, XE1NTT, XE1NK also added their call to 238 other logs across 67 grids.

Two-meter conditions were rather average, with no reported major openings. K8GP, whose "Grid Pirates" netted 75 grids on 2 meters, and 9 other multi-op teams and one single-op managed over 50 grids on this work-horse band. VE3SMA reported that his 10 W to a 6 element Yagi at 30 feet raised a response across 800 km from NG4C. Perhaps a burst of airplane scatter?

Single-Operator

K2DRH, Bob, continued his winning streak using 7 bands from IL in the Single Operator Low Power category, with 235 k points—up from his recent January top score of 162 k. He was able to add 2304 to his line-up after smoking two transverter receivers in the remote tower-mounted scheme just before the contest. Operating WB1GQR, Mitch, W1SJ, placed second with 119 k from VT, using only bands ABCD. Steve, W4SHG above sea level in VA set a Roanoke Division scoring record of 87,768 adding 3456 MHz gear this year as his 8th band, more than doubling the division's previous high score. Impressive, considering a QTH only 63 feet. Justin, K9MU, a self-admitted "6 meter addict" in WI, with 77,688 won 4th by a nose, while Russ, KB8U, of MI captured 5th place with 77,250.

Jeff, K1TEO, set another all-time scoring record for Single Operator High Power in CT and the NE Division by scoring 624 k. He surpassed his old record by 143 k points, despite little E_s opportunity to run up a big grid count on 6 meters. With his new 5 GHz station, available for the first time in a June contest, that band was used to advantage, adding 16 QSOs and 11 grids. Jeff credits the ability to track rovers and quickly run the bands, in addition to his QTH in the midst of the NE and Atlantic Divisions, antennas above the treetop levels, as well as the support of his family for his ongoing success. He missed the all-time national SOHP record by less than 1%, a target he's aiming at for the future. Following in second place, Dave, K1RZ, operating in MDC, put up a score of 321 k, well balanced across 10 bands, including 20 QSOs on 10 GHz—the top number for a single-op on this band. Mike, KMØT, had an 11 band total of 255 k for 3rd place, while Jerry, WB9Z, with his massive antenna farm took 4th with 193 k in a 5 band effort. Rounding out the top 5 was Ed, K3DNE, with 175 k, a VHF contest regular performer operating on 7 bands.

The Single Operator Portable category has many openings for those who have a penchant for grabbing a rig and hiking or driving up to a good high spot. Gary, N7IR, took top honors in this category with a 17 k score. Phil, N8XA, used a multiband setup from 50-2304 MHz +10 GHz in the OH section to win top honors in SOP. With this relatively new VHF contest category, there were only 10 participant logs received, and 3 of them set new scoring records in their sections.

Multioperator

Continuing in their domination of the Multi-op Unlimited class, the Mount Greylock Expeditionary Force, W2SZ/1,

Club	Entries	Score
Medium Category		
Potomac Valley Radio Club Society of Midwest Contesters Mt Airy VHF Radio Club North East Weak Signal Group Northern Lights Radio Society Rochester VHF Group Pacific Northwest VHF Society Florida Contest Group Badger Contesters Western States Weak Signal Societ Mad River Radio Club Carolina DX Assn Northern California Contest Club Yankee Clipper Contest Club Central Texas DX and Contest Club Grand Mesa Contesters of Colorado Contest Club Ontario Tennessee Contest Group	3 3 12 10 3	2,528,697 1,402,294 1,135,203 1,011,35,203 1,011,362 636,052 553,153 530,381 338,556 266,519 260,092 242,272 178,757 103,952 94,232 60,822 30,011 11,199
South East Contest Club	7	3,908
CT RI Contest Group Delaware Valley VHF Society Dominion DX Group Medina 2 Meter Group North Texas Microwave Society Dauberville DX Assn	3 4 6 3 4 4	113,922 52,931 38,417 29,859 16,932 15,291

doubled the score of their nearest competitor with 1.9 million points. They captured some of the best opportunities from this eastern QTH on 6 meters with a grid count of 92 and had a combined microwave total of 622 QSOs. Their microwave expertise also gave them 7 QSOs on the exotic frequency of 47 GHz in 7 grids.

With an intensive effort to move up in the June results, the Packrats of the Mt Airy VHF Club scored almost a million points and edged past K3EAR team to capture second place. They credit their success to improved planning, the addition of computer networking to pass contacts, rather than an intercom system, and having all bands ready to go from the opening minutes of the contest. With their large mountaintop installation, the K3EAR "South Mountain Group" gave the Packrats a run, but wound up in 3rd place. Although they compiled more QSOs and multipliers on 50, 144 and 222, the Packrats passed them by with more contacts and grids on the higher bands. W2FU captured 4th place in WNY, with a 12 band performance, they had a 4 band advantage in topping the 5th place N2PA team in the same section, with the teams scoring a substantial 363 k and 267 k, respectively.

The Limited Multi-op scores were led by K8GP, amassing 740 k from their roost in FM08. This is a hard-driving team of long-term experienced VHF ops that really enjoys maximizing its equipment's potential. K9NS in IL was second with 583 k, a tribute to all the VHF activity building up in the Central Division. W3SO, with 10 ops covering the 4 band setup, on top of Wopsononock Mountain in the Allegheny Mountains at 2500 feet came in 3rd with 310 k. Atlantic Division teams of K3 Yellow Traffic Light (K3YTL) and W3DOG captured the next two spots. The TAPMARC team, using

the W3DOG call, with 295 k set a new June ML scoring record for DE.

Rove

The rovers have been credited with enabling all other contest stations to increase their totals, adding some excitement to the less densely populated areas of the country, and creating a unique competition among themselves. Grid circling by rovers remains a controversial practice, but the team of N6NB/R, N6VI/R, and N6MU/R each broke the existing June rover record by compiling over a million points each in their well planned and rehearsed rove on the open plains. Although their route and schedule was set to maximize opportunities at 4 grid intersections, at each stop and while in transit, they worked as hard as they could to contact other stations, especially on the lower four bands. As a result, 2.4% of their total contacts were with others.

The W3IY/R (+ON4IY) team of Bill and Christophe managed their coastal Atlantic route well, finishing on the high spots in FM08 and turned in a fabulous 4th place score of 318 k. Other teams out in the sparsely populated states helped keep the airways hopping; KIØSK and NØBAF teamed up to rove 12 grids in the middle of the country while N6ZE/R with a Yaesu FT-817 transceiver and minimal antennas activated seven grids on the Atlantic and the Pacific coasts, flying coast-to-coast and operating several grids at each stop.

Club Competition

This is the second year that the June contest has had the opportunity for club entries. This year's top score list is similar to last year's. Although some of the top scores were lower this time, largely due to the change in 6 m conditions. In the Medium category, the Potomac Valley Radio Club held first place again with 28 logs and 2.5 million points, followed by the Society of Midwest Contesters sporting 27 logs and 1.4 million points. The Packrats of the Mt Airy VHF Radio Club edged into 3rd place, followed by the Northeast Weak Signal Group, a few points back. In the local category there were 6 entries, topped by the CT-RI Contest Group. Most importantly, club entries are often the stimulus for regional activity, with lots of peer encouragement to be active in the VHF contests.

Regional Highlights

There were logs from 47 states plus PR, 5 Canadian Provinces and 4 DX stations (missing HI, AK and WY). The 4C2X multi-op team of 2 Californians and 6 XE ops found another nice spot in Baja, pointed their antennas northward and operated on ABCDEI, providing a new country for some on 1296, and

submitted the top DX score with 86 k. Dave, ZF1DC, along with operators Charles, W4WA, and Jim, K4BI, kept 6 meters hopping from Grand Cayman, with 800 W to a Yagi at 70 feet and caused huge pileups for the East Coast stations. The T49C contest team in Cuba also had a nice 6 meter operation, with a third place DX score of 21 k. Detailed listings of all scores can be found on the Web report at www.arrl.org/contests/results as well as extended soapbox comments from participants.

Northeast

Activity was high in this portion of the country, owing to the number of large multi-ops, and the great density of VHF operators, combined with a relatively pleasant and warm weekend. Dale, AF1T got a bunch of bands on the air from NH for 6th place in SOLP. K1GX scored 124 k in CT, to round out 10th place in SOHP. There were also more than 25 rovers across the Mid-Atlantic and Northeast. QRM can be fierce when several portable and rover ops arrive simultaneously on the same popular mountaintop. Not only are there station proximities and the same popular band activities, but also QRM due to the common use of 144 MHz as the IF for most of the microwave bands.

It was nice to see RI active on some microwave frequencies, with Chris, WB2VVV, relocating there from NJ, and putting bands ABCD9EF on the air. I'm sorry I missed him as we operated for a few hours from Watch Hill as we roved through RI. Mike, N1JEZ, lit up the microwaves with gear through 47 GHz on Mt Washington in FN44, but missed the log submission deadline. Mark, K2AXX, got his station on the air after being released from the hospital to continue treatment at the home QTH. Hanging his IV meds on a 6 foot high radio rack, he managed to operate 10 bands for 14 hours of air time. Speedy recovery!

Southeast

With the ongoing participation of several well established home stations and club groups, activity continues to grow. Mainstay group W4IY, operating from Flag Pole Knob, VA at 4300 feet scaled back their operation a bit in terms of preamps and power and placed 6th overall. AA4ZZ landed in 7th place in the LM category, and the 4-landers VHF-UHF Contest team, W4NH came in 6th in the MU category. Florida was enjoying a nice 6 meter E_s session, as Jeff, NJ2F, in SFL placed 8th in SOLP, while Gary, NW5E, in NFL managed to catch the 7th spot in SOHP. KE8FD single-handedly found 107 grid mults on 6 meters from SC in his 7-band quest. Frank, W4FAL, with his

FT-847 and dreams of getting that tower up, did manage to capture the two island stations on 6 meters with just a dipole, and added several grids on 2 and 432 with low mounted verticals. Hal, N4GG/4, on vacation in FL put up a 6 meter dipole from scrap, 6 feet off the ground on the condo railing and managed 55 contacts in 34 grids. Just goes to show you that you can do a lot with a little on VHF. KØXXX in Arkansas scrambled to get his 6 and 2 meter antennas set up for the contest on a temporary fence-post. To his surprise found out his daughter ran over the coax with the lawnmower, then a fast moving thunderstorm had the array at a 45° tilt. Despite all of this, he caught the 6 m E_{s} and filled his log.

Central

Jim, K8MR, scored 64 k for top honors in OH and 9th place nationwide in SOLP and Ken, W9GA, topped the previous WI record by scoring 129 k in 8th place, SOHP. The K8CC team was in the 9th LM spot, riding the 6 m openings, but was somewhat shorthanded for ops the first day, limiting the time spent on 144, 222 and 432. Rovers seemed to be very active and contact productive in this part of the country with John, WØAMT/ R, in 7th place, Murray, VE3NPB/R, in 8th, and the family team of Tim, KØPG/R, 9th and Patricia, K9ILT/R, 10th, lauded by other base stations for their ability to make "clean sweeps" with contacts on all their rover bands.

Midwest

With the pack-rovers previously mentioned, W6OAL was this region's top SOLP scorer with 54 k, in 10th place overall nationally for this category. KØGU was the top SOHP entry, in 6th place overall. LaVonne, KCØRAD, is a relative newcomer to hamming, VHF and contesting. She took over the family station as the OM, NØTTW, was away, and with a few antennas on the apartment roof, an FT-100D transceiver and brick amps had some great contest operating enjoyment from IA. Stations operating in AZ, TX, NM, CO and OK caught the best of the 6 meter E_s openings. K5TR with 205 k was 8th overall in LM, and top LM in STX. Charles, W5PR, using only 6 meters, worked 687/178 for a 122 k score and top SOHP in STX. The multiop team at WØLSD gets the "high" (altitude) award for their 3 band operation at 9000 feet atop Mt Princeton, DM68 in

West Coast

The popular entry class seemed to be Single Op Portable in CA, with Hon,

Northeast R	egion		Southeast Reg	•		Central Re	•		Midwest F	J		West Coast R	•	
(New England Atlantic Divisi and Quebec S	ions; Maritin		(Delta, Roanoke Southeastern Di				Great Lakes ntario Section	1)	Mountain a Divisions; I	dwest, Rocky nd West Gulf Manitoba and van Sections)		(Pacific, Northy Southwestern I Alberta, British and NWT Section	Divisions; Columbia	
WB1GQR	119,714	Α	W4SHG NJ2F	87,768 66.048	A A	K2DRH K9MU	235,470 77.688	A A	WQ5W W6OAL	71,068 54.766		NU6S VE7XF	37,184 37,149	
(W1SJ, op) AF1T Al3Z	76,032 38,493		W4BP	51,528		KB8U	77,250	A	NØLL	- ,	A	WB6AAG	32,100	
K1TEO	624,921	В	NW5E	135,790		WB9Z	193,802	В	KMØT	255,210		AF6O		
K1RZ K3DNE	321,525 175,536	B B	N4IS W5ZN	123,546 114,289	B B	W9GA K8MD	129,926 105,984	B B	KØGU W5PR	137,600 122,286	B B	K7RAT (N6TR, o AA7A	p) 71,040 59,094	B B
WB2AMU	3,071	Q				N8XA K9FOH	7,747 300	Q Q	W8CM	1,320	Q	N7IR KQ6EE K7EH	3,850	Q
W3SO	310,464	L	K8GP	740,037	L	K9NS		L	K5TR	205,273		AD6IJ	43,092	L
K3YTL W3DOG	309,260 295,868	L	W4IY AA4ZZ	277,911 232,878	L L	K8CC N8ZM	187,616 32,100	L	W5KFT WØLSD	81,672 18,905		W6DTA K7MWD	22,542 16,362	L
W2SZ W3CCX K3EAR	1,959,675 991,935 986,250	M M M	W4NH N4HB AG4V	267,972 105,099 35,088	M M M	W9RVG	58,575	М	K5QE WØEEA KFØQ	117,192 91,168 51,972	M	W6FM K7CW WA7JTM	203,451	M M M
K2QO WA2IID N1XKT	43,127 36,801 35,003	R R R	W3IY N5KDA (+K5MQ) N4OFA	318,159 36,360 34,768	R R R	VE3NPB KØPG K9ILT	75,096 73,108 72,520	R R R	N6NB N6VI N6MU	1,292,382 1,156,760 1,131,156	R	N6TEB N6DN K3UHF	195,132 184,640 57,772	R R R

KQ6EE, in LAX, Wayne, KH6WZ, and Val, KG6TI, in ORG in 2nd, 6th and 9th places, respectively. Hon hiked up to Mt Baden Powell (9399 feet) in 3 hours, the second highest peak in Los Angeles area, with a backpack full of radio gear. The Sierra Nevada range seems to attract folks to pack their gear and head for the hills. W6FM multiop team posted a nice score of 226 k from SB. The K7CW group in EWA topped their last year's scoring record to set a new high-water mark of 203 k for that section. At 6300 feet in the Cascades, they had a height advantage and found openings on 6 m intermittently, which complemented their microwave QSOs to achieve their success. Mother Nature got them again this year with snow, sleet, rain and gusting winds. They persevered, and survived, thanks to KE7V's warm RV. Notable rovers Dave, N6TEB/R, operating with Glenn, KE6HPZ, scored 5th nationally in this category, and Paul, N6DN/R, captured the 6th spot, while being first and second respectively in their region. Ron, AF6O, turned in an impressive 95 k effort from ORG across bands ABCD9E, including 100 grids on 6 meters.

The "Bread and Butter" of the Contest

Let's focus for a while on those stations and operators that supply the "bread and butter" in this contest-those with more limited stations, perhaps a newer multiband rig with VHF added bands, low power and a small antenna. The airways would be a lot quieter without their participation, and although geography may limit their capabilities, or other obligations limit their operating time, they add the excitement for all involved as they respond to the endless CQing of the big guns, and are sought after by those prowling the bands when they send out a CQ of their own. Chuck, KE4OAR, and his buddy Mike operated for a few hours from Chuck's truck with an IC-706MK2 and some loops for bands ABD. As a casual team with 18 QSOs and 11 band/grid multipliers for this contest, they managed to work everyone they could hear, and are already planning improved antenna mounts and a potential rove for the future. Dan, N8IE, was a June VHF newbie and admits that he had fun dabbling on 6 and 2 meters, while George, W1EBI, with just a few contacts on 6 meters sent this newsflash, "HF contester enters first VHF

contest...and survives!" Ed, KØRPT, made his debut in VHF contesting, after sets years devoted to local communication and repeater operation.

As indicated in many Web postings, VHF contesting is more fun when there are more participants. Perhaps it's time to reconsider my suggestion that a bonus score be added for contacts with VHF contest first-time ops, or that newcomers take a "getting started" score multiplier? There are plenty of opportunities to get on the VHF bands to talk around town, find an E_s opening, try a digital mode, or operate a VHF contest this coming year. There is a lot of new and used VHF equipment available and information from the VHF and microwave columns in QST and QEX in addition to support from VHF clubs. If you haven't already, try it—you may find yourself enjoying a new phase of Amateur Radio.

You have about six months to plot your strategy for the 2005 ARRL June VHF QSO Party, which is scheduled for the weekend of June 11-13. Set your expectations high, and then reach them. You will enjoy the fun!

You can reach the author at rick1ds@ hotmail.com.

05T-

Scores

Each line score lists call sign, score, stations worked, multipliers, hours, number of grids activated (if Rover), and bands (A= 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, I = 10 GHz). Call signs of Division leaders and band indicators are listed in boldface type.

DX	KO1H 3,201 91 33 A A BD	W2FU (+K0SM, WA2TMC, K2TER, K2EHF) 424,888 882 307 M
T49C 21,791 283 77 A A F3DGH 1 1 1 A A	Vermont WB1GQR (W1SJ, op)	ABCD9EFGHIJP N2PA (N2VSZ, W2JSG, W3OAB, N2JQR, N2KG,
ZF1DC (+W4WA, K4BI) 59,169 489 121 L AB 4C2X (N6XQ, W6YLZ, XE2ED, XE1KK, XE2K,	119,714 781 119 A ABCD K1LPS 2,610 61 30 A ABCD9E	N2YB, ops) 363,424 938 277 M ABCD9EFH
XE1UN, XE1NTT, XE1NK, ops) 86,848 504 118 M ABCDEI	W1KMH 748 31 22 Q ABD Western Massachusetts	3 Delaware
1 Connecticut	KA1MDA 9,540 183 45 A ABCDE K1MAP 2,660 54 35 A AB C D	WA3BZT 4,816 112 43 A AB W3DOG (K3TKJ, KA3SVF, KD3FA, N3DB, KB3LEF,
K1IM 15,912 178 68 A ABCD9E K1WVX 3,772 71 41 A ABCD	N1VOR 1,638 63 26 A AB K5ZD 784 56 14 A A	AK3E, KB3IWV, KG4JLO, ops) 295,868 1118 229 L ABCD
K1ZZ 3,564 93 33 A ABD K1YR 3,115 89 35 A AB	KX1X 338 23 13 A ABD W1RZF 39,228 361 84 B ABCD	Eastern Pennsylvania W3MEL 8,268 149 52 A ABCD
KB1JDX 2,688 92 28 A ABCD KA1KOJ 2,280 65 30 A ABD	W2SZ (K1EP, K2AD, K2MLC, K2TR, KA1PRT, KD3NC, N1SV, N1SZ, N2BNY, N2XRE, N2YCA, W1SZ, W1UW, WA1HCO, WA1ZMS, WA2AAU,	KB3EXB 5,085 90 45 A AB C D N3KKU 4,932 111 36 A AB D
K1DJW 1,008 48 21 A AB WA1FVJ 988 47 19 A ABD KB1EMJ 944 56 16 A ABD	WA2SPL, WA8USA, WS2B, WW2R) 1,959,675 2457 425 M	WS3C 3,872 73 44 A ABD W3KJ 2,580 41 30 A BCD 9EF
W1DMM 364 28 13 A AB WA1GTP 160 10 10 A ACD	ABCD9EFGHIJK	KB3JGS 1,932 69 28 A AB KA3PCX 1,740 49 30 A ABCD N3VJH 1,610 53 23 A ABCD
KB1JQA 108 10 9 A ABCD K1TEO 624,921 1145 319 B ABCD9EFGHI	Eastern New York	N3VJH 1,610 53 23 A ABCD AB3AI 1,431 46 27 A ABD K3URT 882 41 21 A ABD
K1GX 124,800 443 156 B ABCD9EFGHI K1KI 3,960 109 36 B ABD	WB2SIH 23,868 203 78 A ABCDE K2KJ 9,633 127 57 A ABCDE W3HHN 3,458 61 38 A ABCD9E	KB3GMV 646 38 17 A A W3IIT 336 22 14 A ABD
N1SXL 765 51 15 B B K1QNF 432 27 16 B AB	WATRKS 3,220 76 35 A ABCD KG2H 275 25 11 A A	KB3FGJ 18 6 3 A A KB3JST 6 3 2 A B
K1CEC 348 28 12 B ABD W1QK (+W1NG, W0BR, W1QJ, N1GS, N1ABY,	K2BAR (K2AMI, KO2OK, W2CWA, NS2K, KC2HL, W2MSK, N2GM, KF2ID, WA2LXE, W2DTA,	W3SZ 78,650 330 143 B A BCD9EFGHJ K3Cl 24,276 188 84 B ABCD9E
K1PHG, N1USQ, KA1ZMK, KA1SYG) 118,932 783 132 L ABCD KB1DFB (+KE1LI, K1JN, N1XS)	WA2RQX, ops) 143,969 969 131 L ABCD	KB3ZS 22,113 209 81 B ABCDE K3ISH 16,767 207 81 B AB
109,956 728 119 L ABCD K1MUJ N1DGF KR1U K1ZE 126,300 569	AB2I (+N2BZP, W2AWX, WB2DVV, WC2J, WA2JQK, WN2Y)	KB3CEZ 77 11 7 B AB CD W3KM 24 4 B ABCD KB3OA KB
150 MABCD9EFI	23,584 352 67 M AB NYC-Long Island	K3YTL (K3BM, K3RDA, KA3EEO, KB3ACO, KE3OA, N3FA, N3RN, N3TDE, N3TKK, WB3FKQ, WB3BOT, N3WV, N3VS, UA1LD, ops)
Eastern Massachusetts K5MA 28,810 253 86 A ABCD	N2FKF 19,170 222 71 A ABD K2OVS 5,124 100 42 A ABD	309,260 1290 188 L ABCD W3CCX (AA3GN, K1JT, K3EGE, K3IUV, K3MD,
WG1Z 18,880 221 59 A ABCDE K1PNQ 11,990 176 55 A ABCD	KC2IQF 3,611 157 23 A B N2XDR 2,992 122 22 A ABD	K3TUF, KA3FQS, KA3WXV, KB3BBR, KB3GJT, KB3XG, KF6AJ, N2NC, N2NT, N3EXA, N3FUJ,
W1UZ 4,995 104 37 A ABCDE KC1MA 1,564 66 23 A ABC W1DYJ 1,491 71 21 A AB	KF2XF 1,720 86 20 A B WB2TPS 1,128 47 24 A AB	N3ITT, N3NGE, N4HY, WØRSJ, W2PED, WA3DRC, WA3GFZ, WA3NUF, WA3YUE, ops)
		991,935 1854 335 MABCD9EFGHIJKP
N1BC 1,071 57 17 A ABD	WM2Z 810 44 18 A ABD KC2GJU 28 7 4 B B	K3EAR (K1UHF, KA1ZE, KC3VO, KN4SM, N1NLR,
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N1BC 1,071 57 17 A ABD K1RV 960 48 20 A AB N1EKV 848 43 16 A ABCD K1VU 748 38 17 A ABD WV1K 504 42 12 A A ABD WV1K 504 42 12 A A ABD WV1K 504 42 12 A ABD W1CZ 240 30 8 A A ABCD W1CRK 120 15 8 A ABD W1CRK 120 15 8 A ABD W1GHZ 49,456 353 88 B ABCD9E K1DAT 9,917 194 47 B ABD W1JHR 2,250 68 25 B ABCD9E K1KEY 200 20 10 B AB N1ZMB 144 17 8 B BD N1ZGY 15 3 3 Q BCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) 7,144 154 38 L ABCD W1BQ 29,337 267 77 A ABCD9E K1TOL 10,230 165 62 A ABCD W1BQ 29,337 267 77 A ABCD9E K1TOL 10,230 165 62 A ABCD W1BQ 44,935 380 95 M ABCD9E K1TOL 10,230 165 62 A ABCD W1KVI, KB1GRS, N1UEJ, KB9IJB, ops) ABCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) ABCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) AABCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) AABCD9E K1TOL 10,230 165 62 A ABCD9E K1TOL 10,230 165 62 AABCD9E K1TOL 10,230	KC2GJU	K3EAR (K1UHF, KA1ZE, KC3VO, KN4SM, N1NLR, N1ROZ, N2YHK, N3EMF, N3OPM, N3PBH, WG3E, WZ1V, ops) 986,250 1800 375 M ABCD9EFGHIJKLP
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N1BC 1,071 57 17 A ABD K1RV 960 48 20 A AB M1EKV 848 43 16 A ABCD K1VU 748 38 17 A ABD W1K 504 42 12 A ABD W1K 504 42 12 A ABD W1CZ 240 30 8 A ABCD W1CRK 120 15 8 A ABCD W1CRK 120 15 8 A ABCD W1CRK 120 15 8 A ABCD W1GRZ 49,456 353 88 B ABCD9E K1DAT 9,917 194 47 B ABD W1JHR 2,250 68 25 B ABCD9E K1KDY 15 3 3 Q BCD W1ZGY 15 3 3 Q BCD W1ZGY 15 3 3 Q BCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) 7,144 154 38 L ABCD W1M (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) 7,144 154 38 L ABCD W1ACW 1,625 65 25 A AB KV1J (+KO1I) 44,935 380 95 M ABCD9E K1TOL 10,230 165 62 A A ABCD9E K1TOL 10,230 165 62 A A ABCD9E K1TOL 10,230 165 62 A ABCD9E K1TOL 10,230 365 B ABCD9E K1TOL 10,545 41 77 A ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 51 52 50 3 55 B ABCD9E K1TOL 10,545 5	KC2GJU	K3EAR (K1UHF, KA1ZE, KC3VO, KN4SM, N1NLR, N1ROZ, N2YHK, N3EMF, N3OPM, N3PBH, WG3E, WZ1V, ops) 986,250 1800 375 M ABCD9EFGHIJKLP Maryland-DC A13Z 38,493 309 91 A ABCD9E W3ARS 11,466 148 63 A ABCD N3UM 5,850 130 45 A AB WA4PRR 2,924 85 34 A ABD K3DSP 2,376 66 36 A ABD W3RAR 2,211 61 33 A ABD W6AXX 1,554 74 21 A B K3BKAQ 1,403 61 23 A AB N3FNE 629 37 17 A A WA3FAE 616 44 14 A A A KB3KXX 377 29 13 A AB W3LL 54 9 6 A A W3FAY 1 1 1 A A KB3KXX 377 29 13 A AB W3FAY 1 1 1 A A KB3KXX 377 29 13 A AB W3FAY 1 1 1 A A KB3KXX 377 29 13 A AB W3LL 54 9 6 A A W3FAY 1 1 1 A A KB3KXX 377 29 13 B ABCD9EFGHI K3DNE 175,536 624 184 B ABCD9EFGHI K3DNE 175,536 624 184 B ABCD9EF N3HBX 126,846 649 162 B ABCD9EF N3HBX 126,846 649 162 B ABCD9EI K3ZO 38,223 411 93 B AB WB3IGR 1,829 48 31 B ABCD N3OC 86,400 419 135 B ABCD N3SO (W3BTX, K3IXD, AISM, W3PAW, W3SF, W3TEF, W3YOZ, WR3Z, K4VV, W9NET, ops) 310,464 1075 231 L ABCD W3KWH (N3LL, WA3TTS, KB3IWX, KB3DPU,
N1BC 1,071 57 17 A ABD K1RV 960 48 20 A AB N1EKV 848 43 16 A ABCD K1VU 748 38 17 A ABD WV1K 504 42 12 A A ABD WV1K 504 42 12 A ABD WV1GRK 120 15 8 A ABCD W1GRK 120 15 8 A ABCD W1GRK 120 15 8 A ABCD W1GRK 120 15 8 A ABCD W1GRZ 49,456 353 88 B ABCD9EI K1DAT 9,917 194 47 B ABD W1JHR 2,250 68 25 B ABCD9E K1KEY 200 20 10 B AB N1ZMB 144 17 8 B BD N1ZGY 15 3 3 Q BCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) W1MM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops)	KC2GJU	K3EAR (K1UHF, KA1ZE, KC3VO, KN4SM, N1NLR, N1ROZ, N2YHK, N3EMF, N3OPM, N3PBH, WG3E, WZ1V, ops) 986,250 1800 375 M ABCD9EFGHIJKLP
N1BC 1,071 57 17 A ABD K1RV 960 48 20 A AB N1EKV 848 43 16 A ABCD K1VU 748 38 17 A ABD W1K 504 42 12 A A ABD W1K 504 42 12 A A ABD N1CZ 240 30 8 A A ABCD W1CRK 120 15 8 A ABCD W1CRK 120 15 8 A ABCD W1GRZ 49,456 353 88 B ABCD9E K1DAT 9,917 194 47 B ABD W1JHR 2,250 68 25 B ABCD9E K1KEY 200 20 10 B AB N1ZMB 144 17 8 B BD N1ZGY 15 3 3 Q BCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops) Maine W1BQ 29,337 267 77 A ABCD W1XM (KB1CGZ, KD1KY, KB1GRS, N1UEJ, KB9IJB, ops)	KC2GJU	K3EAR (K1UHF, KA1ZE, KC3VO, KN4SM, N1NLR, N1ROZ, N2YHK, N3EMF, N3OPM, N3PBH, WG3E, WZ1V, ops) 986,250 1800 375 M ABCD9EFGHIJKLP Maryland-DC A13Z 38,493 309 91 A ABCD9E W3ARS 11,466 148 63 A ABCD N3UM 5,850 130 45 A ABD K3DSP 2,376 66 36 A ABD K3DSP 2,376 66 36 A ABD W3ARR 2,924 85 34 A ABD K3DSP 2,376 66 36 A ABD K3DSP 2,376 66 36 A ABD W3ARA 2,211 61 33 A ABD W6AXX 1,554 74 21 A B KB3KAQ 1,403 61 23 A ABD N3FNE 629 37 17 A A W3FAE 616 44 14 A A KB3KXX 377 29 13 A AB W3LL 54 9 6 A A W3FAY 1 1 1 A A K1RZ 321,525 837 225 B K3DNE 175,536 624 184 B ABCD9EF N3HBX 126,846 649 162 B ABCD9EF N3HBX 126,846 649 162 B ABCD9EF N3HBX 126,846 649 162 B ABCD9E N3OC 86,400 419 135 B ABCD9EF N3HBX 126,846 649 162 B ABCDE N3OC 86,400 419 135 B ABCD9E N3OC 86,400 419 135 B AB

4	KG4OLG 1,457 47 31 A AB WA4YRK 1,127 38 23 A ABDE	W5LUA 3,185 55 35 B AB CD9EI
Alabama KU4WW 11,139 113 79 A ABCD	W9WI 300 18 15 A ABCD K4KO 130 13 10 A AB	Oklahoma NE0P 10,707 125 83 A ABD
K4ZGB 6,370 98 65 A A W4NTI 552 23 24 A A K4WI 156 13 12 A A	W4TDB 66 11 6 A A KD4HIK (+K4JNY, KO4WT)	NBØHH
K4WI 156 13 12 A A AF4OD 14,260 138 92 B ABCD W4CCF (+KV4T, W4RDA, KF4DGS)	` 7,599 110 ´51 L ABCD KE4OAR (+KM4H)	South Texas
15,640 159 92 L ABD W4CUE (N4JF, KB4FKN, WA4UHC, ops)	253 18 11 L ABD AG4V (+packet)	W5ZL 12,300 164 75 A A KB5ZFO 9,798 138 71 A A
1,152 44 24 L ABD KB7BSA (+KI4CPT, KB4BSA, W4OZK)	35,088 205 129 M ABCDE WB4WEN (+K4EJQ)	AJ4F 5,684 98 58 A AB KM5RG 3,655 81 43 A ABD
14,250 150 75 M ABCDE	26,187 200 87 M ABCD9EFGHI	KZ5CW 2,470 63 38 A ABD KA5WSS 260 20 13 A AB
Georgia N4GG 1,995 56 35 A A BD	Virginia W4SHG 87,768 412 138 A ABCD9EFG	NØQFV 195 15 13 A A W5PR 122,286 687 178 B A
NN4RR 1,248 39 32 A A A W4DD 1,127 48 23 A ABD	KC4AUF 22,950 221 85 A ABCD N4KFT 10,962 132 63 A ABCD	W3UUM 64,464 392 158 B A BCD K5IX 22,089 198 111 B ABD
W4ATL 527 31 17 A AB W4AMP 435 26 15 A ABCD	K4FTO 6,674 114 47 A ABCD K3TEZ 3,780 83 36 A ABD	W5UC 120 12 10 B B K5TR (+WM5R, KE5C, KG5U, N5RZ)
K4JRB 154 14 11 A A KG4QDZ 153 17 9 A AB	K4MTS 2,912 82 32 A ABD AD4TJ 2,769 63 39 A ABD	205,273 828 233 L ABCD W5KFT (+K5PI, KI5DR, K5TWJ, KD5SFK)
KF4JVD 150 15 10 A AB K4BAI 28 7 4 A A	N4DWK 2,550 75 34 A AB KG4QIV 1,075 43 25 A AB	81,672 493 164 L ABCD K5QE (+K5PFE)
KG4YUM 1 1 1 A A KD4K 11,316 134 69 B ABCD	K4MAU 817 38 19 A ABD K4FPF 646 38 17 A A	117,192 397 228 M ABCD9E
W4PDZ 403 31 13 B A K4NGA (WB4AEG,K4AEK,ops)	K4PUA 204 17 12 A AB NA4MA 200 20 10 A B	West Texas N5XYO 3,456 70 48 A ABD
11,592 143 72 L ABD	AF4NT 184 23 8 A AB KQ4RH 63 8 7 A BD	AE5B 3,876 69 51 B ABCD W8CM 1,320 44 30 Q A
Kentucky W4FVQ 9,045 106 67 A ABCDE	N4JED 40 10 4 A B KI4EVA 28 7 4 A B	KM5TY 30 5 6 Q AB W5LCC (KC5OBX, KB5KYJ, KD5QMN, KB5UOP,
K4SAC 28 5 4 A BD	KB5YNG 24 4 4 A ABCD W4NEZ 24 4 4 A ABCD	KC5ZRQ, KE5BL, ops) 44,280 294 135 M ABCDE
North Carolina N4HN 8,890 119 70 A ABD	KE2N 48,950 400 89 B ABCDEF N4MM 26,052 305 78 B ABD	6 Foot Boy
K3KO 2,108 62 34 A A WA4SSP 1.344 45 24 A AB D	K4WYS 4,675 75 55 B ABD N4OHE 2,838 47 33 B ABCD 9 E GHI	East Bay W6OMF 8,046 94 54 A ABCDE K6RE 2,312 47 34 A ABCD9I
W4FRA 924 33 28 A A W4FAL 620 28 20 A ABD	W2YE 2,752 86 32 B A A W4NFT 1,508 42 29 B ABCD	K6RE 2,312 47 34 A ABCD9I K6JAT 1,105 53 17 A ABDE K6DF 930 69 10 A BD
K7VO 576 32 18 A AB K4QI 112,868 428 203 B ABCDE	K2EVW 640 32 20 B AB W4IY (+W4NF, KA4CKI, WA0DYJ, W7IY, W4RM,	K6MI 31,034 351 59 Q ABCD9EIP
NG4C 26,070 201 110 B ABCD K2IUK 77 11 7 B A	W4DAV, WA4TK, N3WSO, K5VG, N4NRO, AA4SI, KG4URI, W4CE, KG4TVL, K5OF, N4DSL, WA4HR,	Los Angeles KG6GIQ 18,426 161 83 A ABCDE
AA4ZZ (+AA4S, K2SD, K4MQG, K8YC, W4GRW, W4MW, W4VHF)	W4DC, KE4BUS, KG4UHO) 277,911 1020 219 L ABCD	K6LMN 3,782 107 31 A ABCD KG6DHQ 3,710 75 35 A ABDE
232,878 879 222 L ABCD W4NH (K4EA, K4SZ, K5AND, KE4PJW, N8JLZ,	N3NYC (+N3GLZ) 3,456 90 32 L ABD N4HB (+ W4RCB, N4ZJ, AB4SF)	WA6OWM 1,254 48 22 A ABCD W6ELI 1,140 50 20 A ABD
NX9O, NY4N, W4KXY, W4RLW, W4SKI, WG8S, WW8RR, ops)	105,099 450 159 M ABCD9E	WB6JCD 1,008 30 18 A ABCDE KJ6NO 518 31 14 A ABD
267,972 801 274 M ABCD9EF	West Central Florida K4GKD 6,042 106 57 A A	KG6SQU 420 34 12 A ABD K6HLH 18,876 153 78 B ABCDEFI
Northern Florida W2BZY 29,430 240 109 A ABCD9EF	KO4MA 1,518 42 33 A ABC WD4MGB 40,500 368 108 B ABD	KQ6EE 3,850 102 25 Q ABCDE AD6IJ (+ KF6XA, AC6TK)
KE4KVW 19,200 200 96 A AB N4JK 16,524 204 81 A AB KU4WD 15,170 177 82 A ABCD	5 Arkansas	43,092 394 81 L ABDE K6MJU (+WA6DWL)
KE4YYD 840 36 20 A BD NW5E 135,790 688 185 B ABCDE	KD5RUJ 4,420 76 52 A ABD KB5YIO 36 4 4 A BD9F	9,438 162 39 L ABCDE
Puerto Rico	KC5BYT 36 4 4 A BD 9E W5ZN 114,289 297 203 B	Orange KC6UIX 4,136 77 44 A ABD
NP3CW 90 14 6 A ABD	ABCD9EFGHIJ	KG6EG 3,210 48 30 A AB C DI KN6VR 2,208 71 23 A BD
South Carolina N4UFP 8,840 114 65 A ABCD	Louisiana N5ASA 7,474 101 74 A A B	W6QE 442 27 13 A ABD AF6O 95,976 441 172 B AB CD9E
N4TSS 888 37 24 A AB KR1ST 144 12 12 A A	K5ER 4,558 74 53 A A BD N5HMH 84 14 6 A A	K6TSK 25,346 266 58 B AB CDE K6IBY 1,584 36 22 B CD
KE8FD 98,637 428 183 B ABCD9EF W4WRL 14,570 155 94 B AB	WA5KBH 360 20 18 B AB	KH6WZ 1,185 27 15 Q BCDI KG6TGI 88 11 8 Q A
Southern Florida	Mississippi KN4QS 4,524 85 52 A ABD	W6SBA (KG6JKJ, KF6DNJ, WA6NIA, ops) 9,541 106 47 M ABCDEI
NJ2F 66,048 480 129 A ABCD W4BP 51,528 449 114 A ABD	KJ5RC 576 24 24 A A	Santa Barbara WB6AAG 32,100 233 100 A ABCD9EF
NL7AU 34,170 335 102 A A KØVXM 27,416 212 92 A ABC D9EFGHJ	New Mexico NK5W 12,395 161 67 A ABD	W9EC 2,001 50 29 A ABCD9E KE6RCI 1,312 69 16 A BD
N4GM 24,990 250 98 A ABD K4QQT 24,057 297 81 A A	N6ZZ 4,840 88 55 A A A A A A A A A A A A A A A A A	KQ6NO 96 16 6 A AB N6VMO 8,280 116 60 B A BDE
	K5RHR 960 39 16 A AB C DE K5AM 72,150 390 185 B AB	KC6NBI 5,217 111 47 B AB W6FM (+W6WE, K6YR, W6NS, AE6EQ)
N4BP 16,929 209 81 A AB W4DTA 13,148 173 76 A AB		
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A	K5ARM (N2IC, NA5S, K7IA, ops) 7,884 108 73 L AB	226,080 904 180 M ABCDE KG6TBR (+K6WLC KØBGL WA6PZK)
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A ARCD N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE	7,884 108 73 L AB North Texas	226,080 904 180 M ABCDE KG6TBR (+K6WLC, KØBGL, WA6PZK) 21,021 218 77 M ABCD9EF
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE KB2SFA 17,228 217 73 B ABCD K4MM (+W4IX) ABCD ABCD ABCD ABCD	7,884 108 73 L AB North Texas WQ5W 71,068 420 163 A ABD NØRQ 11,832 136 87 A AB	KG6TBR (+K6WLC, KØBGL, WA6PZK)
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE KB2SFA 17,228 217 73 B ABCD K4MM (+W4IX) 143,888 762 184 L ABD	7,884 108 73 L AB North Texas WQ5W 71,068 420 163 A ABD NØRQ 11,832 136 87 A AB NM5M 10,638 159 54 A ABCDEI WA8ZBT 6,318 117 54 A A	KG6TBR (+K6WLC, K0BGL, WA6PZK) 21,021 218 77 M ABCD9EF Santa Clara Valley
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE KB2SFA 17,228 217 73 B ABCD K4MM (+W4IX) 143,888 762 184 L ABD Tennessee K1LH 11,480 140 70 A ABD	7,884 108 73 L AB North Texas WQ5W 71,068 420 163 A ABD NØRQ 11,832 136 87 A AB NM5M 10,638 159 54 A ABCDEI WA8ZBT 6,318 117 54 A A W5WJP 1,053 38 27 A ABD KC5POV 700 28 25 A AB	KG6TBR (+K6WLC, K0BGL, WA6PZK) 21,021 218 77 M ABCD9EF Santa Clara Valley NU6S 37,184 348 83 A ABCDE AJ6T 22,800 304 75 A AB K2RD 11,374 208 47 A ABD W6GYD 9,408 120 56 A ABCDE KF6MXK 4,191 105 33 A ABCD
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE K82SFA 17,228 217 73 B ABCD K4MM (+W4IX) 143,888 762 184 L ABD Tennessee K1LH 11,480 140 70 A ABD AD4F 5,096 86 49 A ABCD W4BCU 4,446 80 38 A ABCDE	7,884 108 73 L AB North Texas WQ5W 71,068 420 163 A ABD NØRQ 11,832 136 87 A AB NM5M 10,638 159 54 A ABCDEI WA8ZBT 6,318 117 54 A A W5WJP 1,053 38 27 A ABD KC5POV 700 28 25 A AB	KG6TBR (+K6WLC, K0BGL, WA6PZK) 21,021 218 77 M ABCD9EF Santa Clara Valley NU6S 37,184 348 83 A ABCDE AJ6T 22,800 304 75 A AB K2RD 11,374 208 47 A ABD W6GYD 9,408 120 56 A ABCDE K76MXK 4,191 105 33 A ABCD KG6HUM 9 3 3 A A K6KLY 32,336 319 94 B ABCD
W4DTA 13,148 173 76 A AB K4ADR 7,644 135 52 A ABCD WA4BWI 1,260 42 30 A A N4IS 123,546 659 177 B ABCDE KF4FAJ 17,739 202 81 B ABCDE KB2SFA 17,228 217 73 B ABCD K4MM (+W4IX) 143,888 762 184 L ABD Tennessee K1LH 11,480 140 70 A ABD AD4F 5,096 86 49 A ABCD	7,884 108 73 L AB North Texas WQ5W 71,068 420 163 A ABD NØRQ 11,832 136 87 A AB NM5M 10,638 159 54 A ABCDEI WA8ZBT 6,318 117 54 A A W5WJP 1,053 38 27 A ABD KC5POV 700 28 25 A AB NSTIF 220 22 10 A AB KC5ECO 156 13 12 A	KG6TBR (+K6WLC, K0BGL, WA6PZK) 21,021 218 77 M ABCD9EF Santa Clara Valley NU6S 37,184 348 83 A ABCDE AJ6T 22,800 304 75 A AB K2RD 11,374 208 47 A ABD W6GYD 9,408 120 56 A ABCDE K76MXK 4,191 105 33 A ABCD KG6HUM 9 3 3 A A

San Diego	AA7IH 304 24 8 A ABCD E	K8GP (K1HTV, K1RA, K1TR, W1RT, K3CB, W3ZZ,
KG6IYN 12,285 171 63 A ABCDE KF6NKC 10,127 160 41 A ABCDE	W7SST 130 20 5 A BD K7RAT (N6TR, op) 71.040 399 148 B A B C DE	N4UK, W4XP, K8ISK, ops) 740,037 1809 339 L ABCD
WA6MHZ 9,990 162 54 A ABCD K6VCR 8,800 149 55 A ABD WB6MFW 1,080 45 24 A AB	71,040 399 148 B ABC DE W7EW 55,297 366 121 B A B CDE K7TM (+N7LKA)	9 Illinois
KF6JBB 1,863 58 27 B ABCD W6DTA (+K6DYD)	31,414 215 113 M ABC DE K7HSJ (+W7ZSL)	K2DRH 235,470 634 235 A ABCD9EF WO9S 41,690 296 110 A ABCDE
22,542 194 102 L ABCD	3,649 63 41 M ABCD9E	AA9MY 32,330 209 106 A ABCDE K9ZO 29,694 249 101 A ABD AB9H 17,686 219 74 A ABD
San Francisco K6RIM 1,495 65 23 A A	Utah NJ7A 14,040 168 65 A ABCDE NUTA 1410 141 5 0 ABCDE	AB9H 17,686 219 74 A ABD NV8V 15,600 210 65 A ABD N9TZL 6,992 128 46 A ABD
WA6KLK 28,350 235 90 B ABCDE W6XU 4,601 107 43 B A WA6JYU 560 25 14 B BDE	WJ7L 110 11 5 Q D Western Washington	K9IJ 4,680 78 45 A ABCDE K9CS 2,988 82 36 A ABD
San Joaquin Valley	N7CFO 29,304 283 72 A ABCDEFGI N7MWV 23,625 201 75 A ABCD9EF	W3HDH 1,782 54 33 A A W9LYA 473 37 11 A ABD
KF6KDA 11,088 147 63 A ABCD KF6CNV 3,317 88 31 A ABCD	W7GLF 18,120 202 60 A A BC D9 E N7UK 2,736 70 38 A ABD	KC9AEC 242 20 11 A ABD KG9N 209 17 11 A ABD NØICV 4 2 2 A AB
N6KOG 390 30 13 A B K6YK 15,960 180 76 B ABCD	K7UU 2,496 53 26 A ABCD9E KD7TJC 2,106 78 27 A AB	N0ICV 4 2 2 A AB WB9Z 193,802 662 218 B ABCDE WB9SNR 21,238 169 74 B ABCD 9 E
KR7O 14,016 192 73 B A KF6YYV (+KØDI) 30,528 233 96 M ABCD9E	K7MQF 1,482 53 26 A ABCD K7NWS (W7VXS, op) 836 38 22 A A	W9XA 17,394 181 78 B ABCDE K9SM 13,176 129 61 B ABCD9E F
Sacramento Valley	K7UIR 400 43 8 A ABD AC7KY 198 18 11 A AB	W9VA 6,450 116 50 B ABCD N2BJ 5,074 72 43 B ABCD9EF
KC6ZWT 30,976 253 88 A ABCD W6DWI 2,262 68 29 A ABD	K7FL 102 34 3 A B N7AM 63 7 3 A E	W9SE 3,818 82 46 B ABD KRBL 3,465 57 45 B ABCD
NT6K 1,683 50 33 A ABD WA7PDC 1,404 54 26 A A	WA7TZY 26,268 273 66 B A BD E AA7VT 17,980 186 62 B AB C D 9 EF	WA9DBJ 3,306 99 29 B ABD W9JGV 2,349 87 27 B B NG9U 108 17 6 B BD
WA6LMZ 513 27 19 A AB W6KBX 46,726 277 122 B ABCDE W6YM 8,330 144 49 B ACE	W7FI 14,058 198 71 B AB K7IEY 9,454 135 58 B ABCD W7MGC 7,439 142 43 B ABCD	W9SZ 2,080 38 32 Q BCD9E K9NS (K9DX, K9HMB, K9PW, K9XW, KO9A,
7	W7VB 2,750 110 25 B AB W87BST 840 35 8 B E	W9RM, ops) 583,041 1481 327 L ABCD
Arizona WJ0F 13,778 163 83 A ABD	W7ERH 490 38 10 B BD KU7M 1,974 74 21 Q ABCDE	N9TF (+KC9ETU) 19,034 245 62 L ABCD
K7ZD 3,560 89 40 A AB WA7BTG 700 28 25 A A KF7JS 154 14 11 A AB	KI7T 6 2 2 Q AD W7MRG (WB7FJG, N4SL, KB7TYY,ops)	NG9R (+N9JF) 13,870 166 73 L ABD W9GKA (+K9ZA)
AA7A 59,094 363 147 B ABCD E KE7NR 11,385 141 69 B ABCDE	6,562 163 34 L ABD KI7EL KI7EL N7XKJ KB7PSG 816 52 12 L ABCD	2,263 63 31 L ABCD W9RVG (+WD9EXD)
N7IR 17,088 168 89 Q ABCDE K7MWD (+K0CAO)	8	58,575 281 165 M ABCD9E
16,362 197 81 L ABD WA7JTM (+WW7B, N7AMA, K7TOP)	Michigan KB8U 77,250 390 150 A ABCD9EF	Indiana KB9NKM 21,505 253 85 A AB
34,524 256 126 M ABCDE Eastern Washington	W8RU 8,384 106 64 A ABCD K8MM 5,000 84 50 A ABD N8IA 2,952 70 41 A ABCD	WA1MKE 19,780 179 92 A AB CD9E AC9X 11,376 158 72 A AB N9DR 4,214 83 49 A ABD
W7GHZ 9,912 94 56 A A BCD9EFGI K7AWB 5,341 95 49 A ABCD	W8LON 2,312 55 34 A ABD N8ZVB 2,201 71 31 A A	K9SG 3,128 74 34 A ABD WB9DRB 2,952 57 41 A ABCDE
W6LLP 1,219 43 23 A ABCD KF7CN 25 5 5 A AB	N8SDQ 1,581 51 31 A AB KC8HZM 1,431 49 27 A ABD	NN4H 2,664 71 37 A ABD W8DQ 1,075 40 25 A ABCD
W7WKR 16 4 4 A A W7JGO 1,300 40 26 B ABCD	N8LIQ 850 34 25 A AB WA8YLZ 168 13 12 A ABD K8MD 105,984 442 184 B A BCD9E	NM9P 943 39 23 A ABD N9LF 420 30 14 A AB WM9M 315 21 15 A A
K7CW (+KE7V, VE7DXG, N7EPD, K7ND, W7YOZ, K7WIA) 203,451 675 219 MABCD9EFGHIP	K8MD 105,984 442 184 B A BCD9E K8EB 101,652 399 172 B A BCD9EF K2YAZ 44,323 200 127 B ABCD9EF GI	WM9M 315 21 15 A A KC9DFU 80 13 5 A BCD K9EA 61,005 315 147 B ABCDE
Idaho W7ID 7,616 97 64 A ABCDE	KB8ZUZ 23,316 250 87 B ABD9 N8OC 8,378 109 71 B ABD	K8LEE 27,937 307 91 B A WC9C 3,182 74 43 B AB
W7USB 9,052 119 62 B ABCDE KB7QFE (+KI7BP)	K8RS 8,030 100 55 B ABCD9E N8PVT 960 33 24 B ABCD	KB9WSL 1,170 43 26 B ABD K9FOH 300 25 12 Q AB
615 33 15 L ABCD KØIP (+N7IJ, N7YYY, W7DRF) 24,617 225 103 M ABD	K8CC (+K8KS, N8UUP, WX3M) 187,616 756 208 L ABCD	W9IMS (K9RU, N9KZJ, W9SU, W9IND, WY9T, N9KT, ops) 13,728 155 78 L ABCD
Montana ADD	Ohio K8MR 64,092 352 147 A ABCD	Wisconsin K9MU 77,688 355 166 A A BCD 9E
W7YM 3,621 70 51 A AB D KI6CG 3,276 89 36 A AB D	WN8R 10,488 119 69 A ABCD W8DD 7,239 116 57 A ABD	N9ISN 49,794 303 129 A ABCD N9DG 46,224 318 108 A ABCD
K7BG 1,200 50 24 A AB W7KNT 10,132 149 68 B A	K8AB 3,939 79 39 A ABD KB8UUZ 1,620 60 27 A A	N9LLT 17,408 203 68 A ABCD W9RAY 7,014 106 42 A ABCD9E
AA7GS 525 25 21 Q AB Nevada	WA8GMT 1,408 64 22 A A K8WW 966 30 23 A ABCD WD8EKH 480 30 16 A AB	K9DQ 2,700 66 30 A ABCD K9VS 2,592 94 24 A ABD KB9Q 2,350 69 25 A ABCD
K7ICW 14,364 136 84 A ABCDE W7GK 6,363 97 63 A ABD	KC8YIF 299 22 13 A ABD W8CRZ 130 13 10 A A	N9NDP 1,738 65 22 A ABCD W9JOT 1,416 46 24 A ABCD
N7WVZ 2,760 60 46 A AB KQ6MU 814 35 22 A ABD	KB8TCK 4 2 2 A A K8ROX 72,329 424 151 B ABD	K9AIH 288 29 8 A ABD KB9MZD 24 6 4 A B
W6EIO 216 17 8 A BCD K1NV 1,595 50 29 B ABD	WA8RJF 69,762 293 154 B ABCD 9EFG K8TVD 15,385 136 85 B ABCDE	KC9ECI 6 2 2 A BD W9GA 129,926 516 167 B ABCD9E NØAKC 45.720 257 120 B ABCD9E
W7OJT 465 24 15 B AB D K7EH 2,850 72 25 Q BCDE K7XC (+KD7KKO, NS9E)	WA8RCN 11,376 237 48 B AB N8XA 7,747 100 61 Q ABCD9EI N8ZM (+KD8FO, W8PLZ)	KB9PJL 32,274 215 99 B ABCD9E
9,636 109 73 M ABCDE	32,100 286 107 L ABD K8FH (+KC8QAE)	O Colorado
Oregon K7YO 18,304 220 64 A ABCD	22,140 219 90 L ABD	W6OAL 54,766 316 139 A ABC D 9EFGHI W0ETT 10,070 155 53 A ABD WV0H 6,929 131 41 A ABDI
KA0TP 12,375 185 55 A A BCD KA6T 7,920 138 45 A ABCD KI7JA 4,902 108 38 A ABCD	West Virginia N8II 2,201 71 31 A A K8KFJ 1,617 49 33 A A	N0POH 3,531 79 33 A ABCD KB0YH 1,740 58 30 A A
KI7JA 4,902 108 38 A ABCD W7KKE 1,050 37 25 A ABD WR7X 920 36 23 A ABD	K8KFJ 1,617 49 33 A A K8DXN 748 34 22 A AB KC8KSK 336 19 16 A AC	KCØPZD 299 23 13 A AB KIØII 184 19 8 A ABD
K7VIT 810 49 15 A ABD N7DB 580 44 10 A ABCD	KC8KBY 170 17 10 A AB K2UOP 8,798 100 53 B ABCD9EF	KØGU 137,600 554 215 B ABCDE NØKE 30,160 238 116 B ABCDEI

KØRI																
NOLICY		141	86	В	ABD	VA3KA VE3HHT	1,920 1,836	41 50	30 27	A A	ABCDE ABCD	KB1EKZ (+KB1EN\		F0	D 0	ADODOFFOLL
NØUGY KØNR	2,166 4,235	61 91	19 35	B Q	ABCDEI ABCD	VE3LFS	1,404	51	27	Ā	A BD	19,822 KB1EAA (+KB1EU		53	н 8	ABCD9EFGH
WØLSD (+N			Z)	_		VA3TSG	720	36	20	A	Α	17,980	234	58	R 5	
	18,905		95	L	ABD	VA3NU VE3VJ	540 432	36 27	15 16	A A	AB	N1JFU 16,112		53	R 3	
WØEEA (+N	9KC, WS		(H5J) 176	М	ABCD9EFGIJ	VE3V3 VA3DF	336	14	12	A	A C	W1AUV 13,511 KT1VT 9,359		59 49	R 6	
WØKVA (+N						VA3OR (V					· ·	KR1TD 3,834	58	27		ABCD9EFGHIJ
	21,567		79	M	ABD9EFI	\/E00D\\/	266	19	14	A	A	,				
lowa						VE3SPW VE3TFU	240 71,250	20 302	12 150	A B	B ABCD9E	Northwestern K3UHF 57,772	403	101	R 14	ABCD9E
KØIO	775	31	25	Α	A B	VL011 O	71,200	002	100		ADODSE	W7DHC (+ logger)	403	101	N 14	ABCD9E
KCØRAD	693	30	21	Α	ABD	Saskatch					_	57,716		94		ABCD9EFGI
	55,210	480	282		ABCD9EFGHIJ	VE5UF	10,439	143	73	Α	Α	K3UHF 51,450		98	R 13	
WØVAN KØCNN (+K¢	840 CØAYG)	40	21	В	Α	Alberta						K7MDL 27,800 WI7F 8,103		50 37	R 7	
1001111(110	667	26	23	L	ABF	VA6AN	28,028	285	98	Α	A BD	W7ZZT 5,832	91	36	R 5	
NØMA (KX9						VE6BMX	4,840	110	44	A	AB	NW7MT (NW7O, W				
	3,840	81	40	М	ABD9E	VE6JY VE6TN	774 680	36 40	18 17	A A	AB D AB	3,198 N7WLO (+N7ZLM)	79	39	R 7	ABD
Kansas						VE6VPD	4	2	2	A	Ä	2,678	65	26	R 6	ABCDEP
	53,301	253	163	Α	ABCDE	D :::: 1: 0						AD7BK 2,400	89	24	R 2	
WØRT NØKQY	3,344 8,610	53 92	44 70	A B	ABCDE ABCDE	British Co	37,149	311	87	Α	ABCDE	W7HDD 684	21	12	R 2	ABCDEFGHI
AEØG	696	29	24	В	ABODE	VE7CMK	2,660	61	38	AABD		Pacific				
NØJK	1,178	37	31	Q	ABD	VA7DX	1,272	53	24	ВА		K6EU (+NU6T)				
KCØAHN (K					, KCØNJK, ops)	VA7MM VE7AAO	60 522	5 29	4 18	B E Q A		14,716		52	R 8	
	6,200	77	62	М	ABCDE	_	322	29	10	Q A		W6QI 13,056 KE6QR 9,684		48 36	R 2	
Minnesota						Rovers						KB7YEL 5,742		33	R 3	
		193	101	Α	ABCD9EFGHI	Atlantic K2QO	43,127	265	101	R 8	ABCDEI	AE7DX 760	31	20	R 6	ABCDE
	28,296 16,560	211 182	108 80	A A	A BC D ABD	N1XKT	35,003	230	71		BCD9EFGHIJ	Roanoke				
		141	73	Ā	ABCDE	K1DS	27,145	190	61	R 7A	BCD9EFGHIJ	W3IY (+ON4IY)				
KBØLYL	5,400	216	25	Α	В	K3LFO (+	(A31NY) 20,520	268	57	R 6	ABDE	318,159	1022	159	R 11	
KBØTZA	2,288	73	22 31	A	ABCDE	W3HMS	15,138	144	58		BCD9EFGHI	KOCD 10.005	145	45		CD9EFGHI
NGØE KG6GMT	1,333 1,107	43 40	27	A A	AB ABD	KE3HT	13,275	126	59		BCD9EFGH	K9SP 12,285	145	45	R 5	ABCD9EFGHI
KCØREO	1,104	48	23	Α	AB	WA3PTV W3BBO	11,172 1,248	125 44	49 24	R 4 R 3	ABDEGI ABD	W4WNT 504	26	18	R 3	
WØJLF	936	52	18	A	AB	KA3TCC	240	14	16	R 4	ABD	B I. M				
N9QDZ KCØPBY	560 24	28 8	20 3	A A	AB AB							Rocky Mountain KIØSK (+NØBAF)				
	75,888	305	144		ABCD9EFGHIJ	Central	70 100	400	00	D 11	ARCDOE	13,200	200	48	R 12	ABCD
	23,004	191	81	В	ABCDE	KØPG K9ILT	73,108 72,520	480 474	98 98	R 11 R 11	ABCD9E ABCD9E	N7MLD 8,732		74	R 6	
	22,272 10,340	176 109	96 55	B B	ABCDEI ABC9EF	W9FZ	57,594	388	87	R 9	ABCD9EFI	KCØTW 3,384 KU7Z 2,516	78 62	36 34	R 4	
WØAUS	3,762	78	33	В	ABCDEI	K9JK	48,204	347	78	R 10	ABCD9E	AC5TS 2,275	71	25	R 6	
WØYC (NØY						WB8BZK	46,878	331	78	R 10	ABCD9E	NA3J 1,275	44	25	R 5	ABCD
						K97E	12 720	175	ണ	R 4	ΔRD					
,	10	4	2	В	BD	K9ZF NØEDV	12,720 1,288	175 39	60 28	R 4 R 7	ABD ABD	WB2FKO 884	34	26	R 3	
NØAT	44	9	4	Q	ABD	NØEDV Dakota	1,288					WB2FKO 884				
NØAT	44 LBS, VE	9	4	Q		NØEDV	1,288 -NGØR)	39	28	R 7	ABD		34			AB
NØAT NØEO (KBØI ops) KFØQ (+KBØ	44 LBS, VE 6,783 (THN)	9 3KRF 110	4 , KØM 57	Q VJ, I L	ABD NØBNG, AAØAW, ABD	NØEDV Dakota WØAMT (-	1,288 -NGØR) 86,496					WB2FKO 884 Southeastern KU8E 272	34	26	R 3	AB
NØAT NØEO (KBØI ops) KFØQ (+KBØ	44 LBS, VE 6,783)THN) 51,972	9 3KRF 110 268	4 , KØM 57 122	Q VJ, I L	ABD NØBNG, AAØAW, ABD ABCD9E	NØEDV Dakota	1,288 -NGØR) 86,496	39	28	R 7	ABD	WB2FKO 884 Southeastern KU8E 272 Southwestern	34 17	26	R 3	AB
NØAT NØEO (KBØI ops) KFØQ (+KBØ	44 LBS, VE 6,783 THN) 51,972 EEMB, N	9 3KRF 110 268	4 , KØM 57 122	Q VJ, I L	ABD NØBNG, AAØAW, ABD ABCD9E	NØEDV Dakota WØAMT (+ KØSQ (+N	1,288 -NGØR) 86,496 ØUR)	39 467	28	R 7	ABD ABCD9EFG	WB2FKO 884 Southeastern KU8E 272	34 17	26 16	R 3	AB
NØAT NØEO (KBØI ops) KFØQ (+KBØ	44 LBS, VE 6,783 THN) 51,972 EEMB, N	9 3KRF 110 268 ØRPM	4 , KØM' 57 122 I, KCØ	Q VJ, I L M YT,	ABD NØBNG, AAØAW, ABD ABCD9E ops)	NØEDV Dakota WØAMT (+ KØSQ (+N	1,288 -NGØR) 86,496 ØUR) 714	39 467	28	R 7	ABD ABCD9EFG	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132	34 17 593	26 16 161	R 4	AB AB AB ABCD9EFGHIL
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5	44 LBS, VE 6,783 THN) 51,972 SEMB, N 7,560	9 3KRF 110 268 ØRPM 137	4 , KØM 57 122 I, KCØ 40	Q VJ, I L M YT, M	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E	NØEDV Dakota WØAMT (+ KØSQ (+N	1,288 -NGØR) 86,496 ØUR) 714	39 467	28	R 7	ABD ABCD9EFG	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ)	34 17 593	26 16	R 4	AB ABCD9EFGHIL
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri	44 LBS, VE 6,783 THN) 51,972 SEMB, No 7,560 1,863	9 3KRF 110 268 ØRPM 137 62	4 , KØM' 57 122 I, KCØI 40 23	Q VJ, I M YT, M M	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768	39 467 29 282 254	28 102 21 90 82	R 7 R14 R 3 R15 R 4	ABCD9EFG ABCD9E ABCD9EF	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640	34 17 593 568	26 16 161 160	R 4 R11 R11	AB ABCD9EFGHIL ABCD9EFGHIL
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ	44 LBS, VE 6,783 THN) 51,972 EMB, N 7,560 1,863 6,344 1,530	9 3KRF 110 268 ØRPM 137 62 97 39	122 1, KCØI 40 23 61 30	Q VJ, I M YT, M M	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E ABCD ABD ABDE	NØEDV Dakota WØAMT (KØSQ (+N Delta N5KDA (+ N4OFA N4FLM	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768 17,301	39 467 29 282 254 165	28 102 21 90 82 79	R 7 R14 R 3 R15 R 4 R 4	ABCD9EFG ABCD9E ABCD9EF ABCD9EF ABCD	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248	34 17 593 568 197 101	26 16 161 160 45 41	R 4 R11 R11 R 4 R 7	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABCDEFI ABD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK	44 LBS, VE 6,783 THN) 51,972 SEMB, No 7,560 1,863 6,344 1,530 578	9 3KRF 110 268 ØRPM 137 62 97 39 34	122 1, KCØI 40 23 61 30 17	Q VJ, I M YT, M M	ABD ABCD9E ops) ABCD9E ABCD ABD ABDE A	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768	39 467 29 282 254	28 102 21 90 82	R 7 R14 R 3 R15 R 4	ABCD9EFG ABCD9E ABCD9EF	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109	34 17 593 568 197 101 82	26 16 161 160 45 41 19	R 3 R 4 R11 R11 R 4 R 7 R 2	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABCDEFI ABD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP	44 LBS, VE 6,783)THN) 51,972 SEMB, NI 7,560 1,863 6,344 1,530 578 323	9 3KRF 110 268 ØRPM 137 62 97 39 34 17	4, KØM' 57 122 I, KCØI 40 23 61 30 17	Q VJ, I YT, M A A A	ABD ABCD9E ABCD ABD ABD ABDE ACC	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768 17,301 1,392	39 467 29 282 254 165	28 102 21 90 82 79	R 7 R14 R 3 R15 R 4 R 4	ABCD9EFG ABCD9E ABCD9EF ABCD9EF ABCD	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k	34 17 593 568 197 101 82 (G6CL	26 16 161 160 45 41 19 IK, ops	R 3 R 4 R11 R11 R 4 R 7 R 2	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABCD BCD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK	44 LBS, VE 6,783 DTHN) 51,972 EMB, Ni 7,560 1,863 6,344 1,530 578 323 320 4,998	9 3KRF 110 268 ØRPM 137 62 97 39 34	4, KØM' 57 122 1, KCØI 40 23 61 30 17 17 16 51	Q VJ, I M YT, M M	ABD ABCD9E ops) ABCD9E ABCD ABD ABDE A	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL)	39 467 29 282 254 165 44	28 102 21 90 82 79 29	R 7 R14 R 3 R15 R 4 R 4 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109	34 17 593 568 197 101 82 (G6CL	26 16 161 160 45 41 19	R 3 R 4 R11 R11 R 4 R 7 R 2	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA	44 LBS, VE 6,783 OTHN) 51,972 5EMB, Ni 7,560 1,863 6,344 1,530 578 323 320	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20	4, KØM' 57 122 I, KCØI 40 23 61 30 17 17 16	Q J, I YT, M M A A A A A	ABD NØBNG, AAØAW, ABD ABCD9E OPS) ABCD9E ABCD ABD ABDE AC AC AB	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak	1,288 -NGØR) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805	39 467 29 282 254 165	28 102 21 90 82 79	R 7 R14 R 3 R15 R 4 R 4	ABCD9EFG ABCD9E ABCD9EF ABCD9EF ABCD	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, K 1,504 WA6TMY 775	34 17 593 568 197 101 82 (G6CL 69	26 16 161 160 45 41 19 IK, ops 16	R 3 R 4 R11 R11 R 4 R 7 R 2 s) R 4	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS	44 LBS, VE 6,783 57THN) 51,972 SEMB, NI 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995	9 3KRF 110 268 ØRPN 137 62 97 39 34 17 20 96	4, KØM' 57 122 1, KCØI 40 23 61 30 17 17 16 51	Q VJ, I YT, M M A A A A B	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E ABCD ABD ABDE A AC AB ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+	1,288 -NGØR) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805	39 467 29 282 254 165 44	28 102 21 90 82 79 29	R 7 R14 R 3 R15 R 4 R 4 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD	WB2FKO 884 Southeastern 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf	34 17 593 568 197 101 82 (G6CL 69	26 16 161 160 45 41 19 IK, ops 16	R 3 R 4 R11 R11 R 4 R 7 R 2 s) R 4	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC	44 LBS, VE 6,783 57THN) 51,972 SEMB, NI 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20 96 85	4 , KØM' 57 122 1, KCØ 40 23 61 30 17 17 16 51 55	Q, I YT, M YT, M M AAAABQ A	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E ABCD ABD ABDE A AC AB ABCD ABCD ABCD ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU)	39 467 29 282 254 165 44	28 102 21 90 82 79 29	R 7 R14 R 3 R15 R 4 R 4 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD ABCD9E	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, K 1,504 WA6TMY 775	34 17 593 568 197 101 82 (G6CL 69 24	26 16 161 160 45 41 19 IK, ops 16	R 3 R 4 R11 R11 R 4 R 7 R 2 s) R 4	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV	44 LBS, VE 6,783 7THN) 51,972 EMB, Nr 7,560 1,863 6,344 1,530 578 323 323 323 329 4,998 5,995 ta 888 3,780	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20 96 85	4 KØM' 57 122 I, KCØI 40 23 61 30 17 17 16 51 55	Q,, VJ,L MYT, MM AAAABQ AB	ABD NØBNG, AAØAW, ABD ABCD9E OPS) ABCD9E ABCD ABD ABDE A AC ABD ABCDE ABCD ABCD ABCD ABCD ABCD ABCD ABCD ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204	39 467 29 282 254 165 44 126 12	28 102 21 90 82 79 29	R 7 R14 R 3 R15 R 4 R 4 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD ABCD9E	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 2,109 W6YV (WB2TVB, K 1,504 775 West Gulf N6NB (+KG6TOA) 1,292,382	34 17 593 568 197 101 82 (G6CL 69 24	26 16 161 160 45 41 19 9 9 9 9 18, ops 25	R 3 R 4 R11 R11 R 4 R 7 R 2 S) R 4 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF	44 LBS, VE 6,783 DTHN) 51,972 SEMB, Ni 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995 ta 888 8,780 1,140	9 3KRF 110 268 ØRPN 137 62 97 39 34 17 20 96 85	4 , KØM' 57 122 1, KCØ 40 23 61 30 17 17 16 51 55	Q, I YT, M YT, M M AAAABQ A	ABD NØBNG, AAØAW, ABD ABCD9E ops) ABCD9E ABCD ABD ABDE A AC AB ABCD ABCD ABCD ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204	39 467 29 282 254 165 44 126 12	28 102 21 90 82 79 29	R 7 R 14 R 3 R 15 R 4 R 5 R 8 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD ABCD9E	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA)	34 17 593 568 197 101 82 (G6CL 69 24	26 16 161 160 45 41 19 9 9 9 16, ops 16 25	R 3 R 4 R11 R11 R 4 R 7 R 2 R 8 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV	44 LBS, VE 6,783 DTHN) 51,972 SEMB, Ni 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995 ta 888 8,780 1,140	9 3KRF 110 268 ØRPN 137 62 97 39 34 17 20 96 85	4 KØM' 57 122 I, KCØI 40 23 61 30 17 17 16 51 55	Q,, VJ,L MYT, MM AAAABQ AB	ABD NØBNG, AAØAW, ABD ABCD9E OPS) ABCD9E ABCD ABD ABDE A AC ABD ABCDE ABCD ABCD ABCD ABCD ABCD ABCD ABCD ABCD	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+ AL1VE	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,763 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,8014	39 467 29 282 254 165 44 126 12	28 102 21 90 82 79 29 65 17	R 7 R 14 R 3 R 15 R 4 R 5 R 8 R 5	ABD ABCD9EFG ABD ABCD9E ABCD9EF ABCD ABD ABCD9E ABD	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 2,109 W6YV (WB2TVB, K 1,504 775 West Gulf N6NB (+KG6TOA) 1,292,382	34 17 593 568 197 101 82 (G6CL 69 24 1804 1744	26 16 161 160 45 41 19 9 9 9 9 18, ops 25	R 3 R 4 R11 R11 R 4 R 7 R 2 R 8 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ Nebraska	44 LBS, VE 6,783 0THN) 51,972 EMB, Nr 7,560 1,863 6,344 1,530 578 323 323 323 323 329 5,995 ta 888 3,780 1,140 OAJ,op) 90	9 3KRF 110 268 0RPN 137 62 97 39 34 17 20 96 85	4, KØM 57 122, KCØ 40 23 17 17 16 51 55 24 45 20 9	Q,I VJL MYMM AAAAABQ ABB B	ABD ABCD9E OPS) ABCD9E ABCD ABCD ABD ABD ABD ABCD ABCD ABCD AB	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 26,044 B2VVQ)	39 467 29 282 254 165 44 126 12 225 246	28 102 21 90 82 79 29 65 17	R 7 R14 R 3 R15 R 4 R 4 R 5 R 8 R 5 R 8 R 7	ABD ABCD9EFG ABCD9EF ABCD ABCD9EF ABCD ABD ABCD9E ABCD9E ABCD9E ABCD9E ABCD9E ABCD9E ABCD9E ABCD9E	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 775 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156	34 17 593 568 197 101 82 (G6CU 69 24 1804 1744 1738	26 16 161 160 45 41 19 16 25 263 239 234	R 3 R 4 R11 R11 R11 R 4 R 7 R 2 R 2 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ Nebraska	44 LBS, VE 6,783 DTHN) 51,972 SEMB, Nr 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995 ta 888 3,780 1,140 OAJ,op) 90	9 3KRF 110 268 0RPN 137 62 97 39 34 17 20 96 85 35 79 57 10	4 , KØM 57 122 , KCØ 40 23 61 30 17 17 16 55 24 45 20 9	Q J L MT, MM AAAAABQ ABB B A	ABD NØBNG, AAØAW, ABD ABCD9E ABCD9E ABCD ABD ABDE AC AC AC AC ABD ABCD A	NØEDV Dakota WØAMT (+ KØSQ (+N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+ AL1VE	1,288 -NGØR) 86,496 ØUR) 714 K5MQ) 36,360 34,763 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,8014	39 467 29 282 254 165 44 126 12	28 102 21 90 82 79 29 65 17	R 7 R14 R 3 R15 R 4 R 4 R 5 R 8 R 5 R 8 R 7	ABD ABCD9EFG ABCD9E ABCD9EF ABCD ABD ABCD9E ABD	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720	34 17 593 568 197 101 82 24 1804 1744 1738 80	26 16 161 160 45 41 19 18, ops 16 25 263 239	R 3 R 4 R11 R11 R11 R 7 R 2 R 8 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ Nebraska WØTA WAØJCE	44 LBS, VE 6,783 9THN) 51,972 IEMB, Nr 7,560 1,863 6,344 1,530 4,998 320 4,998 5,995 ta 888 3,780 OAJ,op) 90 1,394 1,221	9 3KRF 110 268 ØRPN 137 62 97 39 34 17 20 96 85 35 79 77 10	4, KØM 57 122 1, KCØ 40 23 61 30 17 17 17 16 51 55 20 9 34 33	Q J L M T M M A A A A A B Q A B B B A A	ABD NØBNG, AAØAW, ABD ABCD9E OPS) ABCD9E ABCD ABD ABDE A AC AC AB ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE ABD ABCDE AB ABCD ABCDE AB ABCD ABCDE AB ABCD ABCDE AB	NØEDV Dakota WØAMT (+ KØSQ (+ N N N N N N N N N N N N N N N N N N	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 26,044 B2VVQ) 22,968	39 467 29 282 254 165 44 126 12 225 246 161	28 102 21 90 82 79 29 65 17 87 68 72	R 7 R14 R 3 R15 R 4 R 5 R 8 R 5 R 6 R 7 R 6 R 7	ABD ABCD9EFG ABCD9EFABCD ABCD9E ABCD9E ABCD9EFGHI ABCD9EFGHI	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL)	34 17 593 568 197 101 82 (G6CL 69 24 1804 1744 1738 80 G)	26 16 161 160 45 41 19 K, ope 16 25 263 239 234 34	R 3 R 4 R11 R11 R4 7 R 22 R 8 R20 R 20 R 20 R 20	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ Nebraska WØTA WAØJCE WØKT	44 LBS, VE 6,783 DTHN) 51,972 SEMB, NI 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995 ta 888 3,780 1,140 OAJ,op) 90 1,394 1,221 54 6,804	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20 85 79 57 10 39 98	4, K0M 57 122 1, KC0l 40 23 61 30 17 16 51 55 24 45 20 9	QJL MYMM AAAAABQ ABB B AAAB	ABD ABCD ABCD ABCD ABCD ABCD ABCD ABCD A	NØEDV Dakota WØAMT (+ KØSQ (+ N Delta N5KDA (+ N N N N N N N N N N N N N N N N N N	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 20,905 40,044 B2VVQ) 22,968 15,840 12,926	39 467 29 282 254 165 44 126 12 225 246 161 165 115	28 102 21 90 82 79 29 65 17 87 68 72 66 46	R 7 R14 R 3 R15 R 4 R 5 R 8 R 5 R 6 R 7 R 6 R 7	ABD ABCD9EFG ABCD9EF ABCD9EF ABCD9E ABCD9E ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL-2,376 K5WO 2,376	34 17 593 568 197 101 82 (G6CL 69 24 1804 1744 1738 80 G) 48 57	26 16 161 160 45 41 19 19 16, opt 16 25 263 239 234 34 33 36	R 3 R 4 R11 R11 R11 R 4 R 7 R 2 R 2 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KDS NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ NEDRASKA WØTA WAØJCE WØKT	44 LBS, VE 6,783 7THN) 51,972 EMB, Nr 7,560 1,863 6,344 1,530 578 323 323 320 4,998 5,995 ta 888 3,780 1,140 OAJ,op) 90 1,394 1,221 54	9 3KRF 110 268 ØRPN 137 62 97 39 34 17 20 96 85 35 79 57 10	4 , KØM 57 122 122 140 23 61 30 17 17 17 16 51 55 24 45 20 9 34 33 6	QJL MYMM AAAAABQ ABB B AAA	ABD NØBNG, AAØAW, ABD ABCD9E Ops) ABCD9E ABCD ABD ABD ABCD ABCDE ABD ABCDE AB	NØEDV Dakota WØAMT (+ KØSQ (+ N Delta N5KDA (+ N M4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+ AL1VE KJ1K (+ W N2MH	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 26,044 B2VVQ) 22,968 15,840 12,926	39 467 29 282 254 165 44 126 12 225 246 161 165 115 12CEI,	28 102 21 90 82 79 29 65 17 87 68 72 66 46 ops)	R 7 R14 R 3 R15 R 4 R 5 R 8 R 5 R 6 R 7 R 6 R 7 R 6 R 7 R 6 R 7	ABD ABCD9EFG ABCD ABCD9EFABCD ABD ABCD9E ABCD9EFGHI ABCD9E ABCD9EFGHI ABCDE ABCD9EFGHI ABCDE ABCD9EFGHI ABCDE	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, K 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL-2,376 K5WO 2,376 AF5Q 616	34 17 593 568 197 101 182 (G6CL 69 24 1804 1744 1738 80 G) 48 57 26	26 16 161 160 45 41 19 8K, ops 16 25 263 239 234 34 33 36 22	R 3 R 4 R11 R11 R11 R4 R7 R2 R20 R20 R20 R20 R20 R20 R20 R20 R20	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KDS NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ NEDRASKA WØTA WAØJCE WØKT WØBJ KØRPT	44 LBS, VE 6,783 9THN) 51,972 EMB, Nr 7,560 1,863 6,344 1,530 4,998 320 4,998 5,995 ta 888 3,780 OAJ,op) 90 1,394 1,221 54 6,804 2,925	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20 85 79 57 10 39 98	4, K0M 57 122 1, KC0l 40 23 61 30 17 16 51 55 24 45 20 9	QJL MYMM AAAAABQ ABB B AAAB	ABD ABCD ABCD ABCD ABCD ABCD ABCD ABCD A	NØEDV Dakota WØAMT (+ KØSQ (+ N Delta N5KDA (+ N N N N N N N N N N N N N N N N N N	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 26,044 B2VVQ) 22,968 15,840 12,926 32ONA,18 9,312 8,547	39 467 29 282 254 165 44 126 12 225 116 115 12CEI, 76 114	28 102 21 90 82 79 29 65 17 87 68 72 66 46 46 48 33	R 7 R14 R 3 R15 R 4 R 5 R 7 R 6 R 7 R 7 R 6 R 7 R 7 R 6 R 7 R 7 R 7 R 7 R 7 R 7 R 7 R 7 R 7 R 7	ABD ABCD9EFG ABCD9EFABCD ABCD9EFABCD ABD ABCD9EFGHI ABCD9EFGHI ABCDE BCD9EFGHIK ABCD9EFGHII	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL-2,376 K5WO 2,376	34 17 593 568 197 101 182 (G6CL 69 24 1804 1744 1738 80 G) 48 57 26	26 16 161 160 45 41 19 19 16, opt 16 25 263 239 234 34 33 36	R 3 R 4 R11 R11 R11 R11 R 4 R 7 R 2 R 8 R 20 R 20 R 20 R 20 R 2 R 8 8	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
NØAT NØEO (KBØI ops) KFØQ (+KBØ KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØ Nebraska WØTA WAØJCE WØKT	44 LBS, VE 6,783 9THN) 51,972 EMB, Nr 7,560 1,863 6,344 1,530 4,998 320 4,998 5,995 ta 888 3,780 OAJ,op) 90 1,394 1,221 54 6,804 2,925	9 3KRF 110 268 ØRPM 137 62 97 39 34 17 20 85 79 57 10 39 98	4, K0M 57 122 1, KC0l 40 23 61 30 17 16 51 55 24 45 20 9	QJL MYMM AAAAABQ ABB B AAAB	ABD ABCD ABCD ABCD ABCD ABCD ABCD ABCD A	NØEDV Dakota WØAMT (+ KØSQ (+ N Delta N5KDA (+ N4OFA N4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+ AL1VE KJ1K (+W N2MH N2GXH K2GE (WI KC2HIZ N2CQM	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS) 36,801 26,044 B2VVQ) 22,968 15,840 12,926 32ONA, N 9,312 8,547 5,764	39 467 29 282 254 165 44 126 12 225 246 161 165 115 12CEI, 76 114 77	28 102 21 90 82 79 29 65 17 87 68 72 66 46 ops) 48 33 44	R 7 R14 R 3 R154R4 R 5 R 8 R 7 R 6 7 R 6 7 R 7 A 7	ABD ABCD9EFG ABCD9EFABCD ABCD9EFABCD ABD ABCD9E AB ABCD9EFGHI ABCD9EFGHI ABCD9EFGHI ABCD9EFGHII ABCD9EFGHII ABCD9EFGHII ABCD9EFGHII ABD9EFGHII	WB2FKO 884 Southeastern Z72 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, K 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL-2,376 K5WO 2,376 AF5Q 616	34 17 593 568 197 101 182 (G6CL 69 24 1804 1744 1738 80 G) 48 57 26	26 16 161 160 45 41 19 8K, ops 16 25 263 239 234 34 33 36 22	R 3 R 4 R11 R11 R11 R4 R7 R2 R20 R20 R20 R20 R20 R20 R20 R20 R20	ABCD9EFGHIL ABCD9EFGHIL ABCDEFI ABD BCD BD ABD ABCD9EFGHI
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NØAT NØEO (KBØI ops) KFØQ (+KBØI KØSGI (KD5 NØUK Missouri WØFY KOØZ WAØFQK WØJRP KIØHA KØETC K9AKS North Dako KØUD NTØV KCØHXF NØUD (WBØI NEBRASS NORTH WØFY KØBJ KØRPT South Dako KØHW Quebec VA2IC VE2HDQ VE2PIJ VE2XX Ontario	44 LBS, VE 6,783 DTHN) 51,972 EMB, NI 7,560 1,863 6,344 1,530 578 323 320 4,998 5,995 ta 888 3,780 OAJ,op) 90 1,394 1,221 544 2,925 bta 3,168 670 198 1,008 252	9 3KRF 110 268 N 268 N 27 N 137 62 97 39 34 17 20 96 85 79 57 10 39 37 9 98 65 64 67 22 26	4 K0MM, 57 122 122 130 17 17 16 16 130 17 17 16 16 16 16 16 16 16 16 16 16	QJL MT,MM AAAAABQ ABB B AAABB A AAB	ABD NØBNG, AAØAW, ABD ABCD9E OPS) ABCD9E ABCD ABCD ABCD ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE ABCD ABCDE AB	NØEDV Dakota WØAMT (+ KØSQ (+ N Delta N5KDA (+ N M4FLM WA4JA Great Lak K8DOG (+ WE2BAD Hudson WA2IID (+ AL1VE KJ1K (+ W N2MH N2GXH K2GE (WI KC2HIZ N2CQM WB2LLP KC2IRO AB2KT W2DHT Midwest NØDQS NØLD	1,288 -NG0R) 86,496 0UR) 714 K5MQ) 36,360 34,768 17,301 1,392 es KF8QL) 12,805 (+N8NU) 204 KB2SSS; 36,801 26,044 B2VVQ) 22,968 15,840 12,926 32,0NA, N 9,312 8,547 5,764 5,764 5,764 5,764 5,764 5,764 5,764 5,7737 900	39 467 29 282 254 165 44 126 12 225 246 161 165 115 12CEI, 76 114 77 76 46 38 7	28 102 21 90 82 79 29 65 17 87 68 72 66 46 46 ops) 48 33 44 27 17 23 7	R 7 R 14 R 3 R 15 4 4 R 5 R 8 R 5 R 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7	ABD ABCD9EFG ABD ABCD9EFABCD ABD ABCD9EFABCD ABD ABCD9EFABCD ABD ABCD9EFABCD ABCD9EFAB	WB2FKO 884 Southeastern KU8E 272 Southwestern N6TEB (+KE6HPZ) 195,132 N6DN 184,640 N6RMJ 17,055 N6ZE 5,248 KG6HSQ 2,109 W6YV (WB2TVB, k 1,504 WA6TMY 775 West Gulf N6NB (+KG6TOA) 1,292,382 N6VI 1,156,760 N6MU 1,131,156 W5LL 2,720 KC5MVZ (+KD5UL-2,376 K5WO 2,376 AF5Q 616 AA5AM 42 Canada VE3NPB (+VE3OIL 75,096 K2LDT (+K2LDU) 23,482 N2LBT (+N2OJY)	34 17 593 568 197 101 82 (G6CL 69 24 1804 1738 80 G) 48 57 7 26 7	26 16 161 160 45 41 19 18, opt 16 25 263 239 234 34 33 36 22 6	R 3 R 4 R111 R111 R111 R 47 R 2 R 8 R 20 R 20 R 20 R 20 R 11 R 8	ABCD9EFGHIL ABCD9EFGHIL ABCD9EFGHIL ABCD9EFGHI ABCD9EFGHIJ
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