

Results, June VHF QSO Party

Double your pleasure, double your score — with double-hop E-skip, you'll be begging for more.

By Tom Frenaye,* K1KI

Everybody has been asking why contest weekends always seem to coincide with mediocre propagation, at least until recently. Last September saw one of the best tropo openings of recent years, which satisfied many 144-, 220- and 432-MHz operators. More elusive has been the wide open sporadic E opening on 6 meters, with several disappointing contest weekends during the sunspot maximum. Well, the June Contest put an end to the long string of low scores with a very good opening. The action wasn't just on 6 meters either, as the lower Mississippi River valley experienced a good 2-meter opening to top everything off.

One of the more interesting bits of information culled from the 506 entries is that a full 25% of the entries were from multioperator stations, up from 20% last year. Those 506 logs show a total of 1142 operators, slightly more than in 1979. Many DX stations were noted in the logs, with C6ACY finding his way into the logs of most who were on 6 meters. Other DXCC countries noted were KG4, KP4, KV4, (all counting as the ARRL West Indies section), FM7, HH, HI, HP, KH6, PJ2, TI, VP5, VP9 and XE. One LU was heard but not worked.

It's always tough to point out the best efforts in a vhf contest because propagation and differing population densities play such an important part in determining the final scores. This year the outstanding 6-meter propagation allowed WB4OSN and WA4LOX to really build up their scores, with 6 meters staying open past 2 A.M.! WB4OSN did edge out WA4LOX in South Florida, but who would have guessed that 780 QSOs and 71 multipliers (all states but Alaska!) were possible in a 6-meter-only entry? Farther to the west, the group at K5LZO set a new West Gulf Division record with outstanding 6- and 2-meter multipliers (65 and 18, respectively).

In the far west, those at WA7LYI caught 50 multipliers on 6 meters and WA1JXN/7 caught 13 on 2 meters from Montana. K6ZMW managed a 340-mile QSO on 1296 (and was heard in New Mexico, 525 miles away), and despite poorer Es conditions in the northern states, W7WKR found 262 stations in 34 sections to work from Idaho.

The traditional battle of big guns in the northeast saw three scores in the 200k-plus category, with the W1FC multi-multi leading the pack, again putting to good use their expertise in microwaves. The single-operator battle for number one was won by N6NB/1, putting to good use his mountaintop QTH in Vermont

Division Leaders

Single Operator

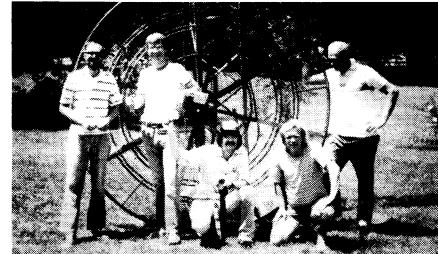
Call	Score	Division	Call	Score
K3SXA	39,216	Atlantic	W3BBS	214,336
W9IP*	38,304	Central	W0OHU/9*	60,639
KØVXM*	29,127	Dakota	WØSD	54,201
WB4JGG*	36,936	Delta	WB4LHD/5	72,800
WD8CTX	21,952	Great Lakes	WA8ONQ*	111,111
WB2WIH	22,444	Hudson	K2XR*	186,538
WBØTEM*	30,304	Midwest	ABØI	27,832
N6NB/1*	86,254	New England	W1FC*	250,194
K7KOT	10,791	Northwestern	N7NW	29,600
N6CT	28,270	Pacific	WA6EJO	43,452
N4CD	39,732	Roanoke	K3LNZ/8	52,965
ADØR	15,582	Rocky Mountain	WA7ADK	11,178
WB4OSN*	55,380	Southeastern	WA4OYH*	85,500
WB6NMT	15,433	Southwestern	W6XJ	60,138
WA5VJB	32,235	West Gulf	K5LZO*	92,106
VE1ASJ*	26,277	Canadian	VE3AEA	9717
TI2NA*	1460	DX	VP5AA*	29,526

*New Record

Top Ten

Single Operator Multioperator

Call	Score	Call	Score
N6NB/1	86,254	W1FC	250,194
K1FO	74,550	W3BBS	214,336
WA1MAO	63,578	W2SZ/1	206,398
WB4OSN	55,380	W3CCX/3	189,630
WA4LOX	49,956	K2XR	186,538
N4CD	39,732	WA2SNA	141,132
K3SXA	39,216	W2YX	118,553
W9IP	38,304	WA8ONQ	111,111
WB4JGG	36,936	WA2TIF	94,656
K1FJM/4	35,620	K5LZO	92,106



Family portrait of the WA8ONQ crew, with (l to r) W9OEH, WA8OGS, WA3OJX, WA8NJR, K8VVV. Well, half the family anyhow.



KC2X, WB2WIH and K2JWE, of the up and coming K2XR multioperator station.

*Assistant Communications Manager, ARRL

Multiplier Leaders

Single Operator

50 MHz	144 MHz	220 MHz	432 MHz	1296 MHz
K1TOL - 47	K1ZZ - 22	K1FO - 16	K1PXE - 19	K1FO - 10
WA2CWA - 42	K2LNS - 21	N6NB/1	K2RIW - 25	W2VC - 9
K2OVS (three) - 41	K3SXA - 21	W2CNS - 9	K3SXA - 18	WD5FZM - 1
WB4OSN - 71	WA4IPI - 20	K3SXA - 15	WA4SBC - 13	K6ZMW - 6
N5TX - 58	WB6NMT - 15	K4LHB - 8 (five) - 1	WD5FZM - 10	N6CA
N6CT - 45	WA1JXN/7 - 13	K4JSI/6 - 7	WB6NMT - 11	W7TYR - 1
WA7KYM - 41	WD8CTX - 18	WA7TDU - 3	(four) - 3	WB7DTI
WB8BGBY - 42	N9AZC - 21	WD8CTX - 5	K8WW - 19	WB8PAT - 1
K8GQB	WØRT - 17	K9RO - 5	W9IP - 13	WB9SNR - 2
W9IP - 47	WØRWH	WBØTEM - 4	WBØTEM - 9	VE2BBK - 1
WBØTEM - 57	VE2DFQ - 20	VE2DFO - 4	KØVXM	VE3CRU
VE1ASJ - 46	VE3FGU	VE3CRU	VE2DFO - 11	VE3FN
T12NA - 20				

Multioperator

50 MHz	144 MHz	220 MHz	432 MHz	1296 MHz
W1FC - 51	W2SZ/1 - 24	W2SZ/1 - 18	W2SZ/1 - 23	W2SZ/1 - 11
K2XR - 57	W2YX - 23	WA2SNA - 17	WA2SNA - 21	K2XR - 9
W3CCX - 51	(three) - 23	W3BBS - 21	W3CCX - 23	W3BBS - 14
WA4OYH - 66	WD4CXU - 18	WA4WZQ - 6	K4WO - 16	WA6EJO - 6
WB4LHD/5 - 65	WB4LHD/5 - 18	WD5GNW - 1	WB4LHD/5 - 8	WA6EJO - 9
K5LZO	K5LZO	WA6EJO - 9	WA6EJO - 9	N7NW - 2
W6XJ - 45	W6XJ - 15	WA7LYI - 5	N7AKB - 6	WA8ONQ - 2
WA7LYI - 50	WA7LYI - 8	K3LNZ/8 - 13	K3LNZ/8 - 19	W8DJY
W8DJY - 64	WA8ONQ - 26	WØOHU/9 - 7	WØOHU/9 - 11	WB9NTL - 1
WØOHU/9 - 54	WØOHU/9 - 14	VE7ASM - 1	VE3AEA - 8	WØOHU/9
VE3AEA - 19	VE3AEA - 14			
VE7ASM				
VP5AA - 57				

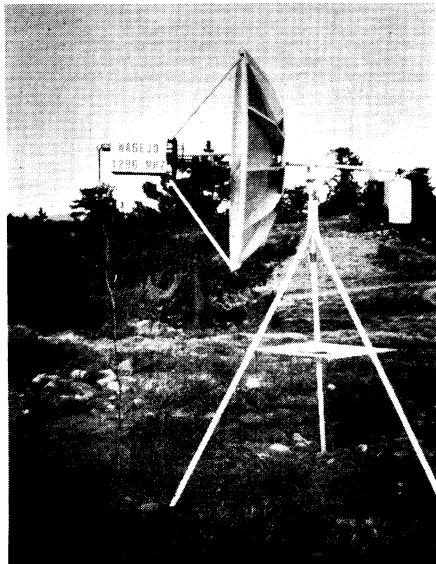
to edge out K1FO. Not too far behind was WAIMAO, making a steady climb toward the top. N6NB claims this will be his last try from the East Coast for a while — after all he now holds the national scoring records in both the June and September contests, among too many Division titles to list.

Not to be outdone, the upper midwest had its share of big scores. W9IP and KØVXM grabbed new single-operator Division records, while the WØOHU caravan invaded Wisconsin to establish a third Division record.

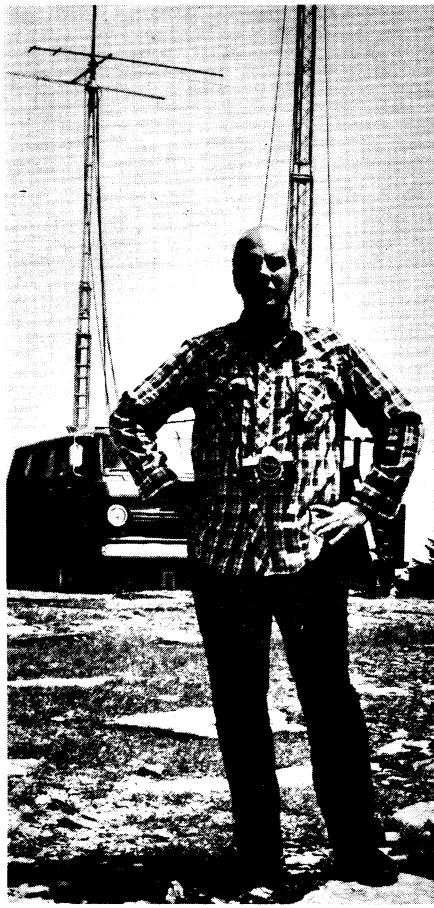
Since the scores do vary so much, as mentioned before, the listing of Division leaders probably gives the best indication of the top operators across the country. A total of 14 records were set this year, with the biggest improvements turned in by WA4OYH (multiop Southeastern Division) and WB4JGG (single operator Delta Division).

Wouldn't it be nice to see a big Es opening happen at the same time as a big tropo opening, or are the two mutually exclusive? Don't forget the September VHF QSO Party — the weekend of September 13-14!

P. S. Many thanks to those of you who are sending in computerized dupe sheets — sure makes it easier for us.



The stunted pine trees in the background attest to the height of the WA6EJO Mount Pinos QTH. Best 1296-MHz QSO was better than 250 miles, to the San Francisco Bay area.



Despite many successful contest efforts from the East Coast, N6NB still keeps the camera handy to assure the competition he's really just a tourist.

SOAPBOX

Almost lost the 1296 tower and dish in a windstorm on Sunday night. Got so we could make a "pit stop" on the generator in five minutes (W3BBS). For this contest, we ventured into Wisconsin to an excellent hilltop site, and think that we might have come away with a new Division Record. If so, it would be the third Division in which we hold the June QSO Party record (K9AKS/WØOHU). Meteor scatter was worth three extra sections on 144 MHz. Viva the daytime Perseids (W6XJ). The best contacts of the contest to me were the multi-hop to Hawaii on 6 meters and the Oklahoma QSO on 432 (WA4OYH). Six meters was "bleeping" outstanding (WB2RJL/4). The Saturday of this year's June 'test' was Flag Day. In honor of the event, I flew Old Glory from atop Mount Equinox, in Vermont, some 3848 feet above sea level (KB2M/1). Late on Sunday afternoon, 6 meters went wide open. I was keeping a rate of 80 QSOs per hour when my wife reminded me that we had to go to our natural childbirth classes. When we got home, three hours later, the band was still open. . . So far, I'm the only contesteer on 220 MHz in N. Texas. I picked up 30 QSOs on 220 — sure hope the others don't find out! (WA5VJB). Would anyone like to buy a contest station? (WA8ONQ). One of our "secret weapons" is a "bucket truck" or cherry-picker. Not only was this machine invaluable for antenna installation, but it also came in handy for getting the microwave gear above the trees (K1KA/W1FC). Some of the worst signals heard in recent years were on in this contest. Between the cranked-up speech processors, overdriven amplifiers and key clicks, things sounded mighty poor at times on 2 meters (ACIT). Would like to see a single-band, 6- or 2-meter contest someday — like the

W21 IHM LVT NPT,WA25 EKM JSW JUC MVQ STO UPK WFF, WB2s ARS JCP LHQ QEA PFB RLW YMW, WD25 AAU, W3V 141-132-1016-114-ABCD	K3s RYA TP, WA3F YJY, WB3s BRY EML, oprs) 34-091- 431- 73-ABD	WA5MUE 861- 41- 21-A WA5WUX(+K5RDN, WD5HLD) 14,728- 263- 56-ABD	WA6IJZ/7(+K6s ELQ VMN) 5040- 134- 35-ABCD	W9TC 1364- 62- 22-A W9CGI 660- 44- 15-AB
K26E(K2s KFE MS PG YSR, KA2s BCS CYZ FQG JBI KB2s FE MT, W2s AZL TIN, WA2s CHN FCW FXB NXW OJH SAJ, WB2s ANM NXX OMA SNN UYX, K3GNZ, W0OG, oprs)	WB3PIE(KA4P, WA3s EK, W3B WAU, WB3s CBB JHC JNP, oprs) 30,690- 461- 66-ABD	WB5MFK(+W4AUX, WD4EPN) 5280- 160- 33-AB	Idaho K7MM 8908- 262- 34-A 88- 22- 4-B	WB9KYE 490- 37- 14-A N9AZC 441- 21- 21-B K9UNM 187- 17- 11-B WB9NTL(+K9XA, KA9AZK, N9NC, WD9AH5) 20,178- 321- 59-ABCD
K26F(K2s KFE MS PG YSR, KA2s BCS CYZ FQG JBI KB2s FE MT, W2s AZL TIN, WA2s CHN FCW FXB NXW OJH SAJ, WB2s ANM NXX OMA SNN UYX, K3GNZ, W0OG, oprs)	K3HKK(+K3s CM EZS RBH, KA3DBT, N3BHB, WA3s EBL IFC ZPW, WB3s AEI, WN3VAW, LA1SP, LA4LN) 12,400- 239- 50-AB	New Mexico W5FF 11,685- 204- 57-ABC K5MAT 8586- 198- 44-ABC WB5CAG 8201- 169- 39-ABC WB5CAG 1514- 133- 38-ABC W5IXR 1380- 58- 23-ABC W5IXS 1144- 50- 22-ABC WB5AOX 770- 77- 10-B WB5GWN(+W9ZYF) 105- 34- 3-BC	Montana W7KNT 6272- 224- 28-AB KB7Q 4587- 139- 33-ABC WA7PDC 2046- 93- 22-ABC WA1JXN/7 377- 29- 13-B K7CPC 4- 2- 2-A	Wisconsin K9XY 4902- 114- 43-AB W9YT(W9WI, oprs) 1725- 69- 25-AB
K26G(K2s KFE MS PG YSR, KA2s BCS CYZ FQG JBI KB2s FE MT, W2s AZL TIN, WA2s CHN FCW FXB NXW OJH SAJ, WB2s ANM NXX OMA SNN UYX, K3GNZ, W0OG, oprs)	4	WB5GWN(+W9ZYF) 105- 34- 3-BC	Nevada KA7DVR 2632- 94- 28-A WB7AXB 846- 47- 18-A N7AKB(+K7s BCP CVV, KB7BZ, K7s ICW ZOK, N7BPA, WA7JUO) 1279- 52- 52-ABCD	WB9OPD 1320- 60- 22-A WD9ACY 576- 64- 9-B N9TD 558- 62- 9-B WA9LZM 492- 41- 12-AB KA9CHZ 392- 49- 8-B W9HR 90- 18- 5-B WB9WFJ 48- 16- 3-B
K26H(K2s KFE MS PG YSR, KA2s BCS CYZ FQG JBI KB2s FE MT, W2s AZL TIN, WA2s CHN FCW FXB NXW OJH SAJ, WB2s ANM NXX OMA SNN UYX, K3GNZ, W0OG, oprs)	WB2AH(+N2A1) 19-950- 269- 70-ABD	Alabama WA4CQG 26,696- 360- 72-ABD WA4EWA 12,545- 183- 65-ABD	Northern Texas WA5VJB 32,235- 444- 65-ABCD WD5PFN 30,056- 392- 68-ABDE	W9OHU(9+AE9M, K9s AKS CHZ, W9UD, WB9QPI, AK9P) 60,639- 632- 87-ABCD
N2BOW(+N2BMP) 1725- 196- 37-AB	KA4AOK(+KA4CFZ) 16,872- 296- 57-A	Georgia N4QH 22,374- 339- 66-AB WD4RCO 11,781- 231- 51-B W4ISS 672- 32- 14-ABD	K9DFH 6580- 136- 47-ABD K5FSP 5247- 137- 31-AB KB5FP 825- 75- 11-B WB5KTC(+AD51) 24,614- 386- 62-ABD	K9IMM(+W9NP, XM, WA9s ACI) ETW(GQ)21,280- 354- 56-ABCD
N2BMN(+KA2A1) 4473- 213- 21-B	Kentucky KC4EG(WB4NYX, oprs) 13,035- 250- 55-ABCD	North Carolina WA41PI 11,281- 150- 37-ABCD K4UKI 812- 14- 14-B W45MU 224- 31- 7-BD WA4KMG(WA4CS CBX KYS OHG, WD4s EKA GSM) 9881- 233- 41-ABCD	WA5DHF 17,278- 326- 53-A KB5XG 126- 21- 6-B N5KK(+N5KWB5, V8 THA) 49,410- 593- 81-ABD	Oregon WA7GCS 3624- 136- 24-ABCD K7HJS 3151- 112- 23-ABCD WA7TDU 3042- 112- 26-ABCD K7WT 432- 36- 12-AB N7DB(+WA1GFM, N7BCS, WB7UDM, WA7s BAC ECY, WB7PMP) 13,330- 286- 43- ABCDFGH
K27A(K2s KFE MS PG YSR, KA2s BCS CYZ FQG JBI KB2s FE MT, W2s AZL TIN, WA2s CHN FCW FXB NXW OJH SAJ, WB2s ANM NXX OMA SNN UYX, K3GNZ, W0OG, oprs)	WB2EWV(K2DLJ, K2BF2E, N2GA, W2EWS, WA2s HMO MIS OCN ORN, oprs) 7668- 212- 36-ABD	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA7DHU(+WB7RFA) 88- 44- 2-B	AD9R 15,582- 318- 49-AB WB9IKJ 5790- 165- 46-AB W0ETT 2600- 100- 26-AB WD9BZA 200- 19- 10-AB
Southern New Jersey WB2VEH 14,905- 257- 55-ABC WA2KOK 13,542- 202- 61-ABCD N2RM 10,142- 243- 44-AB W2HWR 7567- 161- 47-AB K2JF 6642- 141- 41-ABC W3CXU/2 6480- 72- 35-BCDE WA2RVE 13,299- 37- 37-A K2BWR(+K2ZKJ) 32,040- 295- 90-ABCD	N4QH 22,374- 339- 66-AB WD4RCO 11,781- 231- 51-B W4ISS 672- 32- 14-ABD	North Carolina WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2WV 12,012- 219- 52-ABE	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2AWX 10,340- 220- 47-AB	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
K2TMC 4120- 206- 20-B	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
K2OEV(+WA2s YRG YTM, WB2IEY, SM6CZG) 273- 69-ABCD	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
K2OEQ(+WA2s YRG YTM, WB2IEY, SM6CZG) 273- 69-ABCD	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA4HGG) 42,744- 503- 72-ABCD	WA7ADK(+WB7QVZ) 11,178- 241- 46-ABCD	Iowa WB9TEM 30,304- 358- 81-ABCD WD9FOY 1566- 56- 27-ABCD WB9SWD 1014- 78- 13-B WB9RWM(+WB9NVB) 6952- 158- 44-AB
WB2PSI(W2AV, K2s RJP, SPO, KA2CFK, N2s AJX AJY, WA2ZKD, oprs)	K4AOK(+KA4CFZ) 16,872- 296- 57-A	WA4ZIA 16,492- 241- 62-ABCD WA4AAV 4284- 123- 34-ABD WD4ODS 3900- 100- 39-AB K4ROM 3366- 102- 33-AB WA4WZQ(WA4HCA, WA4HKK, WA4WPZ, WA4HIC, WA		