Results, 1991 ARRL June VHF **QSO Party**

There was a little something for everyone in this one. -Larry Filby, K1LPS

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J Contest Manager Assistant Contest Manager

arry spoke the truth in more ways than one when he penned the opening quote. This year's June VHF contest offered us more than the usual excitement. Band conditions thrilled the masses and two recently introduced operating categories paved the way for new kinds of operation that made things more fun for all of us.

In the propagation department, sporadic E was—as usual in June—the staple. The entire North American continent was treated to long openings and even double-hop propagation for most of the contest. An unusually good aurora spiced things up further on Saturday night for the northern US and Canada. Sunday night's coastal tropo treated the East Coast and nearby areas with another kind of excitement. WAIT summed it up: "We had aurora, tropo and E_S all at once. Does it get any better?'

One of our goals in administering the VHF QSO Parties and VHF Sweepstakes is to make them interesting and enjoyable so that participation will remain high. This requires periodic adjustments, as technology and times change. This year, we added two categories to the ARRL June VHF QSO Party: Rover and Limited Multioperator. Good intentions are one thing, but the proof is in the pudding. Both categories proved extremely popular, with the Limited Multiop class providing the bigger draw of the two. The Contest Branch received an impressive 88 Limited Multiop logs-50 more than the 38 Multioperator logs—showing that there's widespread interest in smaller multioperator stations and in traditional huge, dozen-plus-band efforts. Roving, too, suits participants-Rovers and non-Rovers alike. Perennial roving operator Hal, WØMXY, operated from four states and 10 grids, proclaiming, "I can't wait until next year!" N8UM finds the Rovers "an excellent addition to the contest." Scores in all classes were up this year, indicating that conditions and the new categories stimulated activity.

The multitude of stations on the air and propagation enhancement drove scores higher in most categories this year. Past winner Rick, K5UR, put in an outstanding single-operator effort, winning the first-place plaque with more than 307k points, marking the first time a single-op station has broken the 300k mark



Mike, WA3TTS, operates 220 MHz at W3KWH from grid EN90 in Western Pennsylvania.

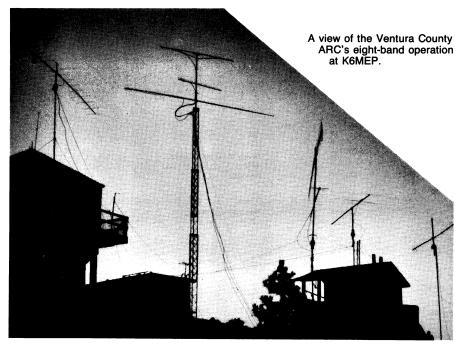
Division Leaders Single Operator

Division	Call	Score
Atlantic Canada Central Dakota Delta Great Lakes Hudson Midwest New England Northwestern Pacific Rocky Mountain Roanoke Southeastern Southwestern West Gulf	K1RZ VE5UF WA9R/9 WA9BWE K5UR *WD8ISK N2CEI NØLL WA2TEO KE7CX K7ICW N5JHV K2UOP/4 WS4F W84F W84F WB6FCS WD5BKV	175,720 50,299 98,010 91,182 307,784 152,802 213,597 270,712 55,860 19,153 50,240 100,848 73,350 17,756 223,916

Multioperator

Division	Call	Score
Atlantic	K1TR/3	832,734
Canada	VE3ONT	344,112
Central	WØUC/9	407,008
Dakota	WØOHU	7.735
Delta	KC4YO	143,775
Great Lakes	N4EQT	230,100
Hudson	WD3R	261,360
Midwest	WQØP	166,278
New England	W2SZ/1	1.240.048
Northwestern	NU7Z	57,596
Pacific	K6AAW	53,390
Rocky Mountain	*NØKV	153,090
Roanoke	WJ8G	228,473
Southeastern		
Southwestern	K6MEP	207,358
West Gulf	WQ5S	183,481

Limited Mult	ioperator	
Division	Call	Score
Atlantic Canada Central Dakota Delta Great Lakes Hudson Midwest New England Northwestern Pacific Rocky Mountain Roanoke Southeastern Southwestern Southwestern West Guilf	*KZZS/3 *VE3BQN *AA9D *KBØZQ *W4BFB *WA8NJR *AB2I *WBØDRL *WTKZ *KTCW *KIGCG *WØKEA *W4IY *W4IY *W4QL *W47JTM *K5CM	192,050 83,620 345,477 210,392 101,672 91,948 9,800 468,470 133,956 59,649 59,200 150,552 185,571 24,108 58,310 290,928
*denotes new divis	ion record	



144 MHz									
177 101112		220 MHz		432 MHz		902 MHz		1296 MHz	
0 K1TR/3	599	W2SZ/1	128	W2SZ/1	266	W2SZ/1	56	W2SZ/1	97
'8 W2SZ/1			122		197		43	K1TR/3	59
	455	W3CCX	121	N2WK	176	N2WK	40	W3CCX	58
7 N2WK	400	K1TR/3	107	W3CCX	140	K1TR/3	38	N2WK	53
io WD3R	352	AE6E	103	K3YTL	112	K3YTL	19	WW8M	31
9 WJ8G	338	K6MEP	100	K6MEP	112	K1WHS	17	K1WHS	29
e6 WØUC/9	273	WW8M	62	WD3R	91	WD3R	17	WD3R	28
5 K1WHS	266	WD3R	56	AE6E	89	WW8M	15	K2BWR	25
7 K3YTL	247	WJ8G	56	WW8M	89	K3LNZ/8	14	W3KWH	24
IS VE3ONT	245	K3YTL	51	K1WHS	85	W3KWH	12	K6MEP	24
11 AE6E	237	K3LNZ/8	44	WJ8G	84	WJ8G	9	WQ0P	24
9 WW8M	237	K1WHS	43	K3LNZ/8	78	VE3ONT	9	K3YTL	23
8 K6MEP	232	VE3ONT	41	K6AAW	76	N4EQT	6	K6AAW	19
2 N4EQT	228	K6AAW	38	VE3ONT	74	WQ5S	5	VE3ONT	19
S2 K6AAW	198			WØUC/9	69	WB5VYE	4	K3LNZ/8	18
8170965751982	W2SZ/1 W3CCX N2WK WD3R WJ8G W0UC/9 K1WHS K3YTL VE3ONT AEGE WW8M K6MEP N4EQT	W2SZ/1 519 W3CCX 455 N2WK 400 WD3R 352 WJ8G 338 W0UC/9 273 K1WHS 266 K3YTL 247 VE3ONT 245 AEGE 237 WW8M 237 K6MEP 232 N4EQT 228	W2SZ/1 519 N2WK W3CCX W3CCX	W2SZ/1	W2SZ/1 519 N2WK 122 K1TR/3 W3CCX 455 W3CCX 121 N2WK N2WK 400 K1TR/3 107 W3CCX WD3R 352 AE6E 103 K3YTL WJ8G 338 K6MEP 100 K6MEP W0UC/9 273 WW8M 62 WD3R K1WHS 266 WD3R 56 AE6E K3YTL 247 WJ8G 56 WW9M VE3ONT 245 K3YTL 51 K1WHS AE6E 237 K3LNZ/8 44 WJ8G WJ8G	W2SZI	W2SZ1	W2SZ/1 519 N2WK 122 K1TF/3 197 W3CCX 43 W3CCX 455 W3CCX 121 N2WK 176 N2WK 400 K1TF/3 107 W3CCX 140 K1TF/3 38 WD3R 352 AE6E 103 K3YTL 112 K3YTL 19 WJ8G 338 K6MEP 100 K6MEP 112 K1WHS 17 W0UC/9 273 WW6M 62 WD3R 91 WD3R 17 K1WHS 266 WD3R 56 AE6E 89 WW8M 15 K3YTL 247 WJ8G 56 WW8M 89 K3LNZ/8 14 W2SONT 245 K3YTL 51 K1WHS 85 W3KWH 12 AE6E 237 K3LNZ/8 44 WJ8G 84 WJ8G 9 WW8M 237 K1WHS 43 K3LNZ/8 78 VE3ONT 9 K6MEP 232 VE3ONT 41 K6AAW 76 NAEQT 6 NAEQT 228 K6AAW 198 W98U/9 69 WBSVYE 4 W9SU/9 MSVYE MSVYE MSVXWH MSU/9 MSVYE 4 W9SU/9 MSVYE 4 W9SU/9 MSVYE MSVXWH MSU/9 MSVYE MSVXWH MSU/9 MSVXWH MSU/MSU/9 MSVXWH MSU/MSU/9	W2SZ/1 519 N2WK 122 K1TR/3 197 W3CCX 43 K1TR/3 W3CCX W3CCX 455 W3CCX 121 N2WK 176 N2WK 40 W3CCX N2WK 400 K1TR/3 107 W3CCX 140 K1TR/3 38 N2WK MD3R 352 AE6E 103 K3YTL 112 K3YTL 19 WW8M WJ8G 338 K6MEP 100 K6MEP 112 K1WHS 17 K1WHS W0UC/9 273 WW8M 62 WD3R 91 WD3R 17 WD3R K1WHS 266 WD3R 56 AE6E 89 WW8M 15 K2BWR K3YTL 247 WJ8G 56 W88M 89 K3LNZ/8 14 W3KWH W23ONT 245 K3YTL 51 K1WHS 85 W3KWH 12 K6MEP AE6E 237 K3LNZ/8 44 WJ8G 84 WJ8G 9 WQ0P WW8M 237 K1WHS 43 K3LNZ/8 78 VE3ONT 9 K3YTL K6MEP 232 VE3ONT 41 K6AAW 76 N4EOT 6 K6AAW N4EOT 228 K6AAW 198 W85VYE 4 K3LNZ/8 K5AAW M36C M36CVYE K6AAW M36C M36CVYE M36C

Multioperate	or Multipl	lier Leaders By	Band								
50 MHz		144 MHz		220 MHz		432 MHz		902 MHz		1296 MHz	
WØUC/9 VE3ONT K1TR/3 WQ5S WQ5S/1 NØKV W2CRS K1WHS W3CCX N4EQT WQ0P KC4YO KCØOQR K9VGE WD3R	243 192 181 180 172 164 155 154 149 147 143 133 128 118	WØUC/9 N4EQT WJ8G K1TR/3 WW8M K3LNZ/8 W3CCX W3KWH VE3ONT W2SZ/1 K9VGE K3YTL WD3R N2WK K6MEP WQØP	77 72 72 63 56 56 53 52 51 50 49 47 45 42	K1TR/3 W3CCX N2WK WJ8G WW8M W2SZ/1 WD3R K3YTL N4EQT K3LNZ/8 VE3ONT K1WHS WO0P K2BWR N8HNS	34 33 32 32 30 28 25 25 23 23 20 20 19	W2SZ/1 K1TR/3 WW8M K3LNZ/8 N4EQT N2WK WJ8G W3CCX K3YTL WQ0P W0UC/9 VE3ONT W3KWH WD3R WQ5S	45 43 40 39 37 36 36 32 31 30 27 26 25	W3CCX K1TR/3 K3YTL N2WK W2SZ/1 K1WHS W3KWH WW8M K3LNZ/8 WD3R VE3ONT WJ8G N4EQT NU7Z WQ5S WB5VYE	21 20 19 18 17 11 11 10 9 8 7 3 3 2 2	W2SZ/1 K1TR/3 W3CCX N2WK WW8M WQ0P W3KWH VE3ONT K3YTL K1WHS WD3R K2BWR N4EQT K6MEP K6AAW	22 22 22 21 19 19 17 14 13 12 11 11 11 10

in the June contest since 1987—a year when conditions were so good that 23 Division records were broken. Placing second was another past single-op winner and frequent top-tenner, Jeff, WA2TEO, who defeated third-place Stan, KA1ZE, by less than 1800 points. That's just a bit more than six tenths of a percent! The top three single-ops would have finished in the Multioperator top 10. Outstanding efforts, guys! Sporadic E is known as "the great equalizer" for a reason; this year it allowed single operators from seven call sign areas to make the top 10.

The QRP-Portable class is most popular in the June contest. This year, N1DJB scored a decisive victory over second-place KM4MP. WA2HFI/Ø, W2XL and KVØR rounded out the top five in this geographically diverse group.

In the Multioperator category, the Mt Greylock group, W2SZ/1, scored another win, with more than 1.2 million points, down slightly from last year. The up-and-coming K1TR/3 group, operating from Eastern Pennsylvania, mounted a bigger effort this year and narrowed the gap between first and second with their 832k points. W3CCX followed with an excellent 648k effort from a location close to K1TR/3. N2WK was fourth with 476k and the WØUC/9 team's 407k efforts shows how important 6 meters is from the Midwest, with an amazing 630 QSOs and 243 grids for the far-and-away best multioperator showing on that band.

Competition in the Limited Multioperator class was good, with the always-high-finishing team at WBØDRL turning in a 468k winning score. The groups at AA9D and K5CM followed with 345k and 290k, respectively.

An interesting aspect of this June's top finishing scores was the gulf between long-time roving operator Dean, WAØTKJ, and the rest of the entrants in the new Rover category. Dean's 263,725-point score was more than 200k points ahead of second-place KJ4BF, showing what Rovers can do in the June contest with good preparation and propagation! He certainly provided an outstanding benchmark for others interested in multilocation VHF-contest operating! The new Rover class brought 50 entries, with representation by those using 1-10 bands (WA3UGP and KC1EB put in 10-band efforts).



Wayne, KH6WZ, operating at NI7T. Through the courtesy of Kenwood USA Corporation, he helped sponsor some of the plaques awarded in this year's contest.



Tony, KC4AUF, made a three-band DXpedition to Virginia Beach, Virginia, in rare grid FM26.



Bob, VE3RKK, operating in Ontario on 144 and 432 MHz in the QRP-portable category.

50 MHz		144 MHz		220 MHz		432 MHz		902 MHz		1296 MHz	
NØLL KM5X NSUD WD5K NØFFO KSUR WBSYWI WA2TEO W1GCI N5HHS N8UM WAØCSL K1DAT K1ISJ N5JHV	480 459 401 354 353 352 333 319 303 301 205 288 283 283	WAZTEO KA1ZE WB2QOQ WA3FFC WG8Q KSUR K1RZ K2SMN N2CEI K5MA/1 KFØAU W3ZZ AA8Q W3IP W9JGV VE3BGH	282 273 255 221 207 204 203 200 195 185 176 161 159 158 155	N2CEI WA2TEO KA1ZE K5UR W2XG K1RZ K2AN W3IP W3ZZ WD8ISK W1GCI WD5BKV WA2BAH WB2ELB WA1HYN N2BFJ	62 61 61 55 52 44 42 37 37 37 34 33 32 32 31 31	K1FO KA1ZE WA2TEO K5UR N2GHR W2HRW K1RZ N2CEI K2SMN WA8EUU W3ZZ W2XG WA3FFC N4HB WD5BKV	155 112 104 97 93 85 84 74 73 72 70 66 66 64 63	WAZTEO N2CEI KA1ZE N2GHR K2SMN WA3FFC N2BFJ WA2ONK W3IP K2UOP/4 N1DPM N4HB K2AN WD8ISK WA8EUU	22 22 21 18 17 16 15 13 13 13 11 11 10 9	WA4VHF N2GHR K2SMN KA1ZE K5UR WD5BKV W3IP K2LME WA2TEO N2CEI K1RZ WA3FFC K1FO N2BFJ W5UGO	5444999999999999

Single Oper	ator Multi	plier Leaders B	y Band								
50 MHz		144 MHz		220 MHz		432 MHz		902 MHz		1296 MHz	
NØLL KM5X VESUF K5UR WD5K N5UD WB5YWI WD5BKV WAØCSL NØFFO NTØV W1GCI N5JHV WA8FTA/9 WA7KHO	192 183 179 165 164 156 155 155 150 150 142 142 140 139	KFØAU K5UR KU8U WA3FFC WG8Q AA8Q WD5BKV K1RZ KAØGGI VE3FGU WB9OJR W9JGV WF9M WA2TEO WA9LWJ	59 57 56 54 54 54 50 49 49 49 48 47 46 44	K5UR WD5BKV WD8ISK N2CEI K1RZ KA1ZE KE8FD WA2TEO W3IP NØLL W3ZZ W3ZFC W1GCI WB2ELB N2BFJ K2SMN K2UOP/4 N4HB	30 29 26 25 25 24 22 21 21 20 17 17 16 16 16	K5UR WD5BKV WB9OJR K1FO WA3FFC K1RZ WA8EUU KBØHH KA1ZE WD8ISK N2GHR N2CEI W5UGO WA2TEO K2SMN K4QIF KE8FD	42 42 42 35 32 31 31 30 29 28 28 27 27 27	WA2TEO N2CEI WA3FFC K2SMN KA1ZE N2BFJ N2GHR WA2ONK W3IP K2UOP/4 N4HB WA8EUU N1DPM K2AN WD8ISK	13 13 12 11 10 8 8 8 8 8 8 8 7 7	WD5BKV K5UR WA4VHF W3IP W5UGO KBØHH N2GHR K2SMN K1RZ WA3FFC WDBISK NØLL K2LME N2CEI K5SW	28 22 21 18 18 17 16 16 16 16 15 14 14

Only time will tell if the Rover and Limited Multioperator categories will be successful in the September and January contests, but indications are that they'll be around for a long time in the June fray (these categories were second and third, respectively, in numbers of entries received for this year's contest).

We'll see how things were distributed in September in the 1991 ARRL September VHF QSO Party results next month. Next is the VHF Sweepstakes, January 18-20. See you then!—Rus Healy, NJ2L

SOAPBOX

This was the best I'd done working grids in one contest on 6 meters (WA9LZM). We had a fantastic coastal tropo opening Sunday night (K1FO). The sun came through! This was the most fun I've had since '87! (N1ABY). After being off 6 meters for 25 years, it was great to get back on in time for the good band opening (K1WVX). My satellite station worked great for terrestrial contacts. The opening Sunday on 6 meters was super! (KD1AO). K1WHS, K2SMN and AA2U deserve the "best ears" award for hearing my 100 milliwatts and 3-element beam at more than 100 miles (K1ZZ). I blew the towermounted GaAsFET preamp three hours before the contest, and boy, did I miss it (NY1E). The growing interest in rare grids prompted my DXpedition to a hunting/fishing camp in the north woods of Maine. Saturday's spectacular light show with an aurora, made it difficult to concentrate on the contest (W1AIM). There were good openings on 6 but little activity on 2 meters here (WB1APD). We had a fabulous time! Our view of the aurora Saturday night distracted us from our operating duties! (K1JW). My home-brew 6-meter amplifier helped on the double-hop E_S QSOs. We had aurora, tropo and E_S all at once. Does it get any better? (WA1T). Although I'd only operated three hours, I had a great time (WB1DWK). This was my first time on 6 meters and conditions rolled out the welcome mat (KA1FVG). This was the first contest I entered seriously. There were great band openings both days to different parts of the coun-(WE1P). This was my first VHF QSO party and I had a blast! I worked a lot of new grids. My best experience was working Argentina for my first DX contact on 6 (N1GPY). This contest showed many members that there's more to VHF/UHF than FM repeaters. The new limited-multioperator class was a perfect category for us. Everything was near perfect this year (W1TKZ). This was my first VHF contest using SSB and I had a world of fun, more so than on FM (N1FUS). The gods of propagation were good to us this year. The mosquitoes, however, were huge and vicious (N1DJB). 6 meters sure did come alive! (WA2UYL). Band conditions were down from January (WB2OEE). The weather was beautiful! Activity above 432 seemed down this year (KT2B). I enjoyed 6 meters, it was the best I've heard it for a long time. 2 meters was slightly above average (WA2SLY). There are strong similarities between fishing for bluefish and sporadic E on of meters, When you hit it right, it's really good and you have no time to think. When it's bad, there's plenty of time to catch up with the paperwork and QSLing (WB2AMU). I still enjoy running the bands to give out multipliers (WA2UDT). The confusion between 220 versus 222, coupled with a general disgust over what happened to 220-222, reduced activity. Like last year, 6 meters dominated the activity for a large part of the contest, with no major tropo event to help the activity on the higher bands (K2SMN). Things were slow on 2 meters Saturday, but picked up on Sunday (N3FUJ). This was my highest score ever, even with little time to operate (WA3CSP). It was a good contest with plenty of participants. There seemed to be a shield blocking anything to New England (K3YDX). We improved

Top Rover Scores					
Call	Score				
WAØTKJ	263,725				
KJ4BF	58,891				
KBØCY (+WA6TTY)	55.510				
WØMXY` ´	49,856				
KD2YB (+WD4RDZ)	38,610				

our score from last year and learned a few lessons we'll apply next year (WI2T). I'm still figuring out how to use the computer logging program. Maybe I'll have it down by September (NW3C). I highly recommend mountaintopping (KC4IUK). Limited Multioperator is a great new category, as it gives us small-scale mountaintoppers a chance to compete (KZ2S). I've been a ham for 18 years, but got on 2- and 6-meter SSB only two months ago. I enjoyed the contest more than any other ham-related activity I've ever participated in (WA4FCM). I wonder how many contacts weren't made on 222 because of having equipment tuned for different frequencies (N5AYD). I wish I could have operated the whole contest, as conditions were great here (AB4RU). It was great to have super E_S openings during a contest weekend for a change (WIJA). It was great to have 6 open this year (K4KAZ). The people with 6 meters cleaned up (N4YZJ). Two meters was flat all weekend. The line noise here was horrendous at times, limiting the stations we could hear (WB4KPD). This was the best contest I've ever been in! Six meters was great. My goal was to make 50k; little did I know that I'd beat that figure by 18k (KK4NO). Band conditions were poor (K4KCF). Now I know why they call it *sporadic* E! and 2 were sporadic from here in SW Florida (WB2QLP). The contest should have started three hours earlier, when 6 meters was open (WB4BKC). I never knew there were so many other hams in my grid! (W4OO). We didn't know that there was a major flare until it was too late (WM2C). Wow It was one of the best contests ever! I had a ball! (AD4F). I hope to have CT running by next year to help with the logging and after-contest chores (K2UOP/4). Things got pretty quiet here without 6 meters (AB4SF). My 8 watts didn't set any records, but I had fun (AC4AC). The weather was perfect for mountaintopping and 6 meters was good for high scores. My biggest thrill is still making contacts on 1296 (KM4MP). We had several good $E_{\rm S}$ openings on 6, but most of them were restricted to the same geographic area (N7JJS/5). I missed the first six hours of the contest, but I had fun (W5FYZ). This was the best contest I've worked so far (WD5CCA). I was chased off the mountain by a lightning storm at noon Sunday (KN5S). My thanks to the portable and Rover stations for their

Plaque Winners

Single Operator

Position	Winner	Score	Donor
1st 2nd 3rd	K5UR WA2TEO KA1ZE		Mt Greylock Expeditionary Force, W2SZ/1 Bald Knob VHF Contest Group Kenwood USA Corporation
4th 5th 6th 7th 8th	WD6BKV NØLL N2CEI K1RZ WA3FFC	223,916 213,597 188,892 175,720 169,404	Terry E. Netzley, W8NJR Delaware Valley VHF Society Ed Parsons, K1TR Eastern VHF/UHF Society W1TKZ Contest Crew, in memory of WB1BUM
9th 10th	W1GCI WD8ISK	155,232 152,802	ARRL ARRL

QRP-Portable—Single Operator

Position	Winner	Score	Donor
1st	N1DJB	34,424	K2RIW and K2OVS
2nd	KM4MP		Peter Putman, KT2B
3rd	WA2HFI/Ø	19,992	Contest Committee—LIMARC
4th	W2XL	17,784	West Coast VHFer Newsletter
5th	KVØR	12,852	Keith Ballinger, VE3IMT

Score Donor

Rover

Position	Winner	Score	Donor
1st	WAØTKJ	263,725	Rus Healy, NJ2L

Multioperator Position Winner

i osidon	**********	000/0	Donor
1st	W2SZ/1	1,240,048	Randy Stegemeyer, W7HR
2nd	K1TR/3	832,734	N2LIV, N2GHR, N2BFJ Contest Team
3rd	W3CCX	648,846	Angle Linear, N6CA
4th	N2WK	476,857	Kenwood Employees RC, WD6DJY
5th	WØUC/9	407,008	Mt Airy VHF RC
6th	VE3ONT	344,112	Jon K. Jones MD, NOØY
7th	K1WHS	309,540	Mark Wilson, AA2Z
8th	WD3R	261,360	ARRL
9th	K3YTL		Rochester VHF Group
10th	N4EQT	230,100	W1XX (+WB1AVA,K1GX,K1JX) Contest Team

Limited Multioperator

Position	Winner	Score	Donor
1st	WBØDRL	468,470	W3EP, K9AKS, W9IP
2nd	AA9D	345,477	Kenwood USA Corporation
3rd	K5CM	290,928	Kenwood USA Corporation
4th	KBØZQ	210.392	WA2TEO, KA1FVG, W2GKR
Eth	K720/2	102 050	ADDI

Marine Mobile

Position	Winner	Score	Donor
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VE3YRA 6,844 Wayne Yoshida, KH6WZ

DX Single Operator

Position Winner Score Donoi

YB2OK 8,330 W3EP, K9AKS, W9IP

DX Multioperator

Position Winner Score Donor

WA4VCC/ VP9 46,494 Robert J Carpenter, W3OTC

special efforts (KM5X). Conditions were good this year. It was too bad I blew up some gear halfway through the contest (AA5C). If 6 hadn't been so good, this contest would have been boring (WQ5S). Thanks to 6, this is our best score ever! (AA5IB). Conditions were excellent on all bands (WD5BKV). Six meters was great, and 2 and 432 were flat. It was probably a good thing, though, or I wouldn't have had time for coffee. I wish more satellite users would get on the horizon (KBSIUA). There were great openings on 6 meters. The Rovers added excitement on all the bands and I had my first QSOs ever on 1296! (W5AL). We had problems with 220 which cost us dearly on QSOs (K6MEP). This still is a fun contest, even when propagation is poor (WA6HRK). There was a lot of activity and I had fun, even though I had only a few hours to operate (NI6L). Conditions were poor on 6. When it finally opened, there were only two hours left in the contest (KI6CG). I only heard one grid square I wasn't able to work (K6QM). Starting off with a 6-meter opening made my QRP-portable operation more enjoyable than ever (KB6MEG). Where was everyone? (WA6KLK). I'm happy, I needed nine more new grids to reach 300, and I worked 10 (W71DZ). The aurora opening Saturday night the latest my care (M7TEM). We had great conditions with avera Saturday night. night helped my score! (W7FHI). We had great conditions, with aurora Saturday night and E-skip Sunday (W7ID). My score may not reflect it, but the weekend was awe-some (KF7CQ). I made my first 432 aurora contacts during the contest. We had three double-hop 6-meter openings during the contest (WA7AKD). The huge solar flares during the contest turned 6 meters into a madhouse for the last four hours (K7ICW). This was the most activity I've ever seen. The Rover class is terrific for those so inclined (KE7CX). The new Rover class is a winner. The aurora was so strong Saturday night that we could aim our antenna by looking at it! (WA7TDZ). Six meters opened for only two hours, which left time for bug swatting (WA4GPM). Six opened in the last 90 minutes of the contest and it got like a basement sale at Macy's! (KA7HLB). Wow What a contest! This was my best coors (KPS!I). I had a contest! What a contest! This was my best score (KBSJI). I had a great time on 6 meters, but conditions were poor on UHF (K8MD). I had a great time and was surprised by what such a small antenna array could do! (N8LMT). It was another contest with mediocre conditions, but at least it wasn't raining (WA8EUU). It seems that every second contest my rotator control dies (KU8Y). I swear by the "armstrong" rotator: Hear 'em, find 'em and work 'em! It's fast! (N8KWX). I took advantage of aurora Saturday evening, as the long-haul tropo wasn't there (AA8Q). I had bad line noise both days, but it got better after dark. The current belief with my said count (WARCO). but it got better after dark. The aurora helped with my grid count (W8RQQ). Band conditions on 6 meters were good; the band was open much of the time (WA8SVV). Conditions were fair and so was the activity (WA8NPX). This was my first QRP-portable operation and it won't be the last. It was more fun that just racking up QSOs from my home station (WB8K). The 432 propagation and activity was disappointing (WA9GCR). Conditions were super on 6 meters Sunday. My highlight was working WA4VCC/VP9 for country no. 37 on 6 (N9BJG). Sunday morning was dismal, but, wow! What an opening on 6 meters! (KC4KK/9). I never thought I'd break 25k points with my antennas at 31 feet or below. Six meters was hot, though, and that helped my score (WB8YFE). Band conditions were good, especially with the aurora Saturday night. My family helped me by visiting in-laws during the contest (WF9M). All we needed was an extended tropo opening! (WA9LWJ). Wow! A 40-meter inverted V and 8 watts introduced me to 6 meters with nearly 100 QSOs. Results like that will keep me coming back (K9OSH). Fifty MHz showed its fascinating self with the different modes of propagation. Conditions were tremendous for contesting (K7VNU/0). My thanks to the people who were out on the road putting those rare grids on the air (KDØSU). It's amazing what signals you can hear at 12,000 feet (NØHAX). It would have been a better contest if Murphy hadn't shown up (WBØCQO). This was the best aurora I've ever seen in a contest (KFØAU). It's hard to work aurora with a QRP rig (NØGAD). Six-meter propagation was the best we've had in five years of VHF contesting here in Iowa (WØRPK). The new Rover category sure helped my score (NØLL). The contest was fun this year (WØRT). Thanks to the new Rover class, I was able to work new grids on all the bands (WQØP). I had a great time and look forward to having additional band capability in the next one (AJØK). At times I didn't know where to point the 6-meter beam (WA2HFI/0). The June VHF contest is always entertaining and over the years, I've learned that the 2-meter band doesn't often offer "normal" expectations (KAØGGI). It was nice to get VUCC and more on 6 meters during the contest (NTØV). This was my fifth consecutive year operating QRP portable and it only gets better! (KVØR). Where were all the US ops? (VEIAHM). I made a special trip to FN11, but conditions were poor (VEIMQ). The aurora and sporadic E on 6 made for an exciting contest (VE2DUB). Despite 40 mi/h winds Saturday night, we enjoyed the activity (VE2UMS).

Scores are listed by ARRL/CRRL Sections and DXCC country. Within each Section, single-operator scores are listed first, followed by QRP-portable, multioperator, and limited-multioperator scores. Rover scores are listed by division. From left to right, each line lists: call sign, score, QSOs, multipliers, class (S = single-operator, Q = QRP-portable, M = multioperator, L = limited mulitoperator) and bands worked (A = 50 MHz, B = 144 MHz, C = 220 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2.3 GHz, G = 3.4 GHz, H = 5.7 GHz, I = 10 GHz, J = 24 GHz, K = 48 GHz, L = Light). Among single-operator stations, single-band with bend with band later(s) in baddies a single-band with board with sections. winners are noted with band letter(s) in boldface print indicating the band won.

1							K1ZZ	147	17	7	7 S	ВС	K5MA/1	5,180	185	28	s	В	
Connecticut							N1EXG	2.562	144	14	ı o	BD	NZ1D	5.044	96	52	S	ABC	
00111100000	•						NILIV	1,022	66			BCD	W1GXT	1.922	61	31	Š	AC	
WA2TEO	270,712	821			ABCD9E		N1BAH	209	19			AB	N1CSG	144	16		š		
KA1ZE	268,956	794	241	s	ABCD9EF		K1XA (+ K1J			•		A-0	WB1U (+ AE1						
K2LME	20,865	190	65	s	BCDE		KIAA (+KI		400										
W1QK	19.522	204	88	Š	ABCD			4,386	129	34	ł L	A	WB8TSK)	51,612	333	132	м	ABCDE	
K1FO	15,785	180			DE								N1FDX (+N1					_	
NIABY	13.035	165			AB		Eastern Mas	sachusett	8					1,232	88	14	L	В	
KIWVX		64			ABD		N1BWT	53.055	355	131	ıs	ABCD9							
	1,972						K1ISJ	51,987	403			AB	Maine						
KD1AO	1,380	54			ABD		KIDAT	33,120	288		S						_		
K10QG	1,207	71	17										NY1E	41,762	314			AB	
W1WHL	665	35	19	s	Α		KB1KM	25,300	231			ABDE	KA1ZX	17,325	175		S		
NX1Q	492	41	12	s	В	•	WB1FKF	25,192	178			ABCD9EFGI	W1AIM	11,398	139	82	S	AB	
N1GVV	336	34	8	s	BD		KX1C	15,925	192			ABCD	WB1APD	2,460	60	41	s	AB	
			_	_			K1MBO	7.261	136	53	S	ABC					_		

K1WHS (+ AF1T,AV1S,K1MNS,KY1K,N1HFE,WA1s NIE,THQ,W3HQT) 309,540 875 268 M ABCD9EFGI K1JW (+ KA1IOD,N1GEV,WK1R,K82EVL) 4,752 118 36 L ABC

New Hamps	him						
KA1CDZ	23,594	221	94	s	ABCDE		
WA1T	15,936	182	83	s	A B D		
AC1J	3,528	81	36	s	ABCD		
W1JR	975	39	25	s	AB		
KA1LMR	10,584	172	54	Q	ABCD		
WB1DWK	663	35	13	Q	BCD		
W1XX (+K1s GX,JX,XA,WB1AVA)							
	75.036	420	148		ARCD		

WA1ZYX (KA1s MTM,QFA,N1BAC,WK1P,ops)	N2IQU 23,144 186 88 S ABDE	W4FSO 19,008 163 96 S ABD9	AA5IB (+N5DZS,WA8ZBT)
4,524 155 26 L BCD	W2XG 8,625 257 23 S ABCD	KS4S 12,375 165 75 S A	103,376 436 208 L ABCD
Rhode Island	NZ2N 4,674 102 41 S ABD KE2GD 4,116 147 28 S B	KI6MS 2,948 67 44 S A N4YZJ 2,125 67 25 S BCDE	Oklahoma
WA1GYL 13,585 199 65 S ABD	W2UAD 2,852 92 31 S B W2WGL 2,345 51 35 S BD	WA4WZP 784 49 16 Q B N4HSM (+ W6JKV)	WD5BKV 223,916 545 308 S ABCDEF
WA1HYN 12,561 163 53 S BCD	N2DM 1,178 38 31 S A	19,383 213 91 L A	WB5YWI 98,262 438 206 S ABD
A11K 3,750 150 25 S B	WA2ROW 441 49 9 S B	W4DW (KA3PSK,K4SAN,KB4VYP,KC4s GFR,	W5UGO 32,508 171 126 S ABDE
W1KCS 1,305 87 15 S B	KB2HSH 1 1 1 S B	THW,KN4AQ,WA4LHE,WD4MYM,K9PM,NOØT,	K5SW 21,582 155 99 S ABDE
KC1RL 301 43 7 S B	W2XL 17,784 160 78 Q ABCDE	ops) 16,716 198 84 L ABD	K5CM (+WM4Z,KB5PLX,N5s CG,KW,WØRRY)
KA1FVG 8,835 144 57 Q ABD	N2WK (+K1JUL,K2s OEQ,OS,KA2s AAP,HSK,	WB4KPD (+ KC4YLE)	290,928 852 319 L ABCD
W1OP (K1DS,KZ1K,N1s AKO,JDA,W1EYH,ops)	KB2SE,KE2WK,N2DKP,W2HPF,WA2s LAQ,MOP,	2,070 69 30 L AB	
22,865 210 85 M ABCD9E W1AQ (K1s AGA,GBU,KA1YMQ,KM1X,N1IBC,	TMC.WB2QCJ.KD5RO)	·	South Texas KB5IUA 55,332 325 159 S ABD
NO1U,ops) 37,169 312 109 L ABD	476,857 1093 281 M ABCD9EFGHI	Northern Florida	N5HHS 39,130 301 130 S A
	WA2AAZ (KB2LEP,KE2RP,N2s CMA,COJ,MKR,	N4QEK 18,090 185 90 S ABD	W5OZI 26,691 217 123 S AB
Vermont	MKT,MLF,WA2SOK,WB2JSB,ops)	WB4JEM 17,672 170 94 S ABDE	WD5ERG 4,428 77 54 S ABDE
K1LPS 24,080 192 112 S ABCD	9,204 150 59 L ABD	W4WHK 14,960 170 88 S A	
WE1P 5,452 94 58 S A	WR2Y (+ KE2UR) 3,876 102 38 L AB	N4TWX 12,874 147 82 S ABD WA4JNE 9,570 136 66 S ABD	N5KZP 1,562 71 22 S B
N1DIQ 4,800 80 60 S A	N2HLT (+KB2DMK)	WD4FAB 5,151 75 51 S ABDE	N5LFH 1,071 51 21 S B
KA1VLH 4,452 84 53 S A	1,628 72 22 L BD	N4CYV 4,888 94 52 S A	WB5VYE (+ K5BYS,WA5ZKO)
W1EXZ 2,990 65 46 S A N1GPY 2,478 59 42 S A	3	N4ZFH 2,050 50 41 S A	71,996 372 164 M ABCD9E KA5TJI (+KB5HAB)
KA1BSZ 126 18 7 S B	Delaware	South Carolina	21,945 194 105 L ABD
W1TKZ (KA1s DHV,NOI,KC1US,N1s CPE,FXG,	N3FUJ 4,704 147 32 S B		KG5ND (+ KB5FIO)
GMS,HXO,IBG,NT1s L,M,NY1J,WN1N,WO1G, WA2TIF,ops)	•	KK4NO 68,392 356 166 S ABDE N1BOY/4 70 10 7 S A	7,623 109 63 L ABD
133,956 603 183 L ABCD	Eastern Pennsylvania KZ3X 4,365 76 45 S ABD	Southern Florida	West Texas W5AL 49,588 258 161 S ABCDE
Western Massachusetts W1GCI 155,232 550 224 S ABCD9EF	WB3LNZ 3,000 77 30 S ABD9 WA3CSP 1,872 48 39 S A	WD4MGB 26,378 232 109 S ABD K4KCF 9,610 139 62 S ABD	NV1Q 1,530 51 30 S A
N1DPM 90,112 371 176 S ABCD9EF	WA2FGK (K2LNS,op) 48 4 3 S G	WB2QLP 9,585 135 71 S AB WB4BKC 6,615 116 49 S AB C D	6
N1FUS 1,840 104 16 S BD	W2EA 9,420 157 60 Q AB K1TR/3 (+ K1EA,KA1GD,NR1E,N2NT,NJ2L,W2GD,	W4OO 4,080 102 40 S A	East Bay NR6E 2.414 69 34 S ABD
WM2Y/1 1,104 45 16 S ABCD	K3II,KM3T,K5ZD,KH6CP)	W4FNR 2,652 78 34 S A	WA6LHD 2,310 77 30 S B
WA1WRM 798 42 19 S AB	832,734 1597 378 M ABCD9EFGHU	WD4AHZ 1,738 59 22 S BD	WB6LRV (+ KC6SSN,WB6PFJ)
K1JG 350 25 14 S B	W3CCX (WA1YHO,N2LIV,WB2YEH,K3s EOD,ESJ,	N4TL 1,392 48 29 S A	17,980 238 58 L ABCD
N1DJB 34,424 260 104 Q ABCDE	KD3VI,N3s BBI,CX,EVV,EXA,ITT,WA3s AXV,JUF,	WM2C (+ N2AWM,WS4E)	
WB2JSJ 1,748 67 19 Q ABCD KR1R 350 50 7 Q B	NUF,YUE,WB3JYO,WØRSJ,ops) 648,846 1313 339 M ABCD9EFGHIL	726 33 22 L AB	Los Angeles
W2SZ/1 (K1s DH,NKR,KA1s FZY,JFW,PRT,UTU,	K3YTL (WA1MKE,NA2T,WA2GBC,KA3s EEO,	Tennessee	WA6BIL 4,865 115 35 S ABCD
WA1s UGE,ZMS,K2TR,KA2s FWN,WRG,KE2TP,		N8UM 80,017 457 161 S A BD	WA6RAY 2,214 68 27 S ABD
N2s BNY,CJJ,DÙ,GXH,HPA,HUC,İKZ,WA2s AAÙ,	UXW,KB3QI,W3DZH,WA3s YON,YYC,WB3s FAA,	WB4JGG 56,980 345 148 S ABD	K6HLH 851 37 23 S B
SCA,SPL,WB2s JSJ,KMY,WF2B,WM2Y,WS2B,	FKQ,FYT,IWZ,ops)	NS4W 14,950 173 65 S BCD	KI7F/6 780 60 13 S B
KD3NC,WG3I,AK4L, N4FFD,G7FRE,ops)	248,239 715 251 M ABCD9EFG	N4MW 14,196 121 91 S ABCD9E	AE6E (+ AD6C,AF6O,N6s DX,MI)
1,240,048 1857 388 M ABCD9EFGHU	W3HZU (+ ops)		118,150 630 139 M ABCDE
NQ1C (+NM1K)	27,027 258 91 L ABCD	K4RWP 12,528 144 87 S A	
30,115 276 95 L ABCD	N3ADC (+ KA2RRK,KA3YUA)	AD4F 9,198 126 73 S A	
30,113 270 93 E ABOD	18,285 208 69 L ABDE AC3I (KE2DN,KA3s UBG,WSY,YHB,KC3OY,N3s	KC4BWG 8,896 139 64 S A KA4AHU 735 35 21 S A	Orange WB6FCS 17,756 162 92 S ABCD
2	IHK,IPR,W3GF,WM3L,ops)	WA4UCE KA5GFJ,op) 544 34 16 S B	K6IBY 15,688 161 74 S ABCD
Santarra Marra Vanta	15,890 227 70 L AB		N6NJI 4,437 78 51 S ABCD
Eastern New York WA2BAH 44,080 313 116 S ABCD	K3UZY (+ N3AHF)	KC4YO (+ KD4XJ,KM4XW,N4s RJY,TCF,	KI6FF 3,072 128 24 S B
	7.452 162 46 L B	WA4GBE,WB4DAJ,WD4EWX)	W6XD 570 38 15 S AB
WB2VVQ 10,857 141 77 S A	N3HHG (+ops) 312 24 13 L AB	143,775 546 225 M ABCD9E	W6HCC 252 9 7 S I
WA2UYL 7,684 113 68 S AB		W4BFB (+ ops)	W6SX 30 10 3 S B
WB2WHD 6,528 161 32 S BCD WA2FUZ 4,648 83 56 S A	Maryland-DC	101,672 488 179 L ABCD N4RFV (+KA4OAK,KB4VRE,KC4s MFB,RQU,	WA6FIT 1,950 67 25 Q ABD
K2CT (KA2TFM,op)	K1RZ 175,720 574 230 S ABCDE	RRD,W4TZG)	Pacific
1,840 85 16 S ABCD		18,088 238 76 L AB	KH6HME 375 59 5 S ABD
KB2HPW 1,652 48 28 S ABC W2VDI 1,274 46 26 S ABC	W3IP 128,115 448 195 S ABCD9EFI W3ZZ 110,517 452 187 S ABCDE	Virginia	KH6B 3 3 1 S B
KG2H 1,235 65 19 S B	K3ZO 27,280 248 110 S AB	K2UOP/4 100,848 407 176 S ABCD9EF	Santa Barbara
WB2ECL 1,183 91 13 S AB	K3AKR 25,745 222 95 S ABCD	N4HB 90,630 386 171 S ABCD9E	
WY2H 638 49 11 S BD	W3AZ 7,980 114 70 S AB	KB4OLM 42,746 295 134 S ABCD	WB6AAQ 10,092 147 58 S ABDE
WB2OEE 611 47 13 S B	KA3VLG 7,865 121 55 S ABC	WB4CTW 38,316 265 124 S ABCD	KC6TJV 12 4 3 S B
KA2MCU 396 26 12 S ABCD	KA3NTX 3,584 90 32 S BD	W4DO 20,825 182 85 S ABCDE	K6MEP (+WB2ODH,N6s LHZ,QOA,RMJ,NS6X,
K2XA 243 27 9 S B	WA4VHF 3,213 51 21 S E	W4DR 20,196 198 102 S A	WA6s DJS,EJO,JOX)
N2JBI 200 40 5 S B	K3YDX 1,278 71 18 S B	K4QIF 17,219 173 67 S BDE	207,358 699 199 M ABCD9EIL
KA2AUQ 138 23 6 S B	WA3GYW 660 33 20 S AB	KC4AUF 17,204 196 68 S ABD	N6ENU (+ N6HBI,WA6PZL)
N2LPW 77 11 7 S B	W6AXX 645 43 15 S B	K4FTO 15,522 177 78 S ABD	53,856 333 132 M ABDE
WA2OYV 44 11 4 S AB	NQ3Y 348 29 12 S B	WA4OVW 12,236 152 76 S ABD	
WA2FME 28 7 4 S AB	KD3SW 190 19 10 S B	WA4SBC 10,168 110 62 S ABCD	Santa Clara Valley N6FV 3,100 87 31 S ABCD
KB2FTX 24 6 4 S A	WI2T (+KA3QPG,N3JYL,W3EKT,WB3JRU)	WB4BVY 6,380 112 44 S BDE	
WD2AJS 16 8 2 S B	12,375 162 55 M ABCDEI	K9OYD/4 6,248 86 44 S BDE	WD6EPV 2,898 95 23 S BCD
WB2LXC 8 3 2 S BC		KV4P 4,624 136 34 S B	WA6HRK 624 48 13 S AB
W2XM 1 1 1 S B WB2DST 8,874 106 58 Q ABCDE	Western Pennsylvania WA3FFC 169,404 538 228 S ABCD9EF	AB4SF 3,564 82 36 S BD	NI6L 319 29 11 S B WB2UQT 45 9 5 S A
KT2B 6,042 90 38 Q BCD9E WB2KVO 120 10 6 Q C	NW3C 38,920 278 140 S AB N3FYD 38,608 247 127 S ABCD	N4MM 1,860 60 31 S AB	KN4DG 1,298 46 22 Q ABCD KI6CG (+ NU6S)
NX2Q (+KA2AYR,KB2BLE,KT2K,N2s	K3EAV 4,437 71 51 S ABDE	AC4AC 1,462 43 34 S A	59,200 457 100 L ABCD
AAM,CZL,DXP,FHC,KGC,NJ2Y,W2DMM,WA2CRF)		W4MFZ 1,064 48 19 S BD	W6AMT (KB6OWN,WB6s ASR,RAL,WD6E,ops)
66,555 388 145 M ABCD9E AB2I (+ AB2J,W2AWX,WN2Y)	KC4IUK 473 43 11 Q B W3KWH (KA3KSD,N3EQP,W3SVJ,WA3TTS, WB3EML,ops)	N4BG 629 37 17 S B KM4MP 29,370 236 89 Q ABCDE	25,665 239 87 L ABDE K3QM (+ KA3ETI)
9,800 135 50 L BDE WD2V (+ N2s HWV,JHJ,WA2s KPF,ZNU,WB2EQO)	121,589 436 199 M ABCD9EFGHI	W4IY (K4HWG,KA4s CKI,RRU,WB4s NFS,RDV, KØRI,ops) 185,571 641 237 L ABCD	7,785 149 45 L ABD
684 34 18 L ABD	KZ2S/3 (+KA2AEV,KA3JNN,N4HY,NZ4K,	KB4NT (+KA3VFT,AB4L,KA4VHR,KC4s CTS,	AA6PA (+KD6LI,N6XEQ)
	WD8IXE) 192,050 681 230 L ABCD	UWT,WIC,KI4CY,KJ4s Y,QQ,N4ZHN,WA4LPR,	2,666 66 31 L BDE
NYC-Long Island	N3FJN (+KA3STN)	WB4YJC) 65,130 341 167 L ABCD	WA6OYS (+ WB6YQN)
	4,500 87 45 L ABD	WF4U (+K3SS)	2,516 67 34 L ABCD
N2BFJ 80,960 346 160 S ABC D9E N2GHR 63,504 350 112 S A BD9E	4	720 48 15 L B	San Diego
WA2SLY 7,656 132 58 S AB	Alabama	5	WA5BNH 2,322 64 27 S BCD
K2KM 7,497 120 51 S ABD	WB4AXQ 61,623 329 167 S ABDE	Arkansas	W6OYJ 1,679 57 23 S BCDI
WA2EIO 4,350 87 30 S BDE	KA2DRH 50,132 332 151 S AB	K5UR 307,784 746 316 S ABCDE	K6QM 1,445 85 17 S B
WB2AMU 2,132 52 41 S A	WB8RDY 14,018 163 86 S AB	WB5IGF 91,605 407 197 S ABDE	W6PFE 462 36 11 S ABCD
Northern New Jersey	KB4OOW 4,399 81 53 S ABD N4VC 3,772 69 46 S ABD		KB6MEG 8,575 131 49 Q ABCD WB6DTA (+ K6DYD)
N2CEI 188,892 610 212 S ABCD9EFG	WA4FCM 3,120 65 48 S AB KB4FAI 2,175 75 29 S B	Louisiana N7JJS/5 36,448 268 136 S A B	13,288 144 88 L ABD
N2CKH 21,238 206 82 S ABCD	WA4VUG 24 8 3 S B	W5FYZ 10,164 132 77 S AB	San Francisco
	KE4BM 480 32 15 Q B	KB5LiU 9,176 124 74 S A	N6OLD 3,483 74 27 S BDEI
WB2QQQ 8,925 255 35 S B	N5AYD (+ KK4PF)	K5TNP 1,586 61 26 S B	WA6KLK 1,008 25 18 S DE
WA2UDT 6,916 107 52 S ABCD	4,872 79 56 L ABCD	KA5ULI (+ N5KWB)	
K4BNC 4,356 79 44 S ABD KA2IVS 2,300 100 23 S B		37,050 262 130 L ABCD	
WA2LTM 252 9 7 S F W2PHW 102 17 6 S B	Georgia WS4F 73,350 370 163 S ABCD9EF	Mississippi WD5CCA 14,774 161 89 S ABCD	San Joaquin Valley WB6YIY 10,146 139 57 S ABCD
KE2SO 1,265 55 23 Q AB	AB4RU 14,000 175 80 S A	WN2E 7,198 122 59 S A	WB4AYE 7,968 127 48 S ABCD
WD3R (KA1LHZ,K2BJG,KX2O,N2s AAZ,EWV,HMM,	NA4I 11,745 131 81 S ABCD		W6DPD 520 22 20 S ABCD
WM,NO2G,KA3VGD,ops)	K4CKS 11,011 143 77 S A	N5JYX 4,984 75 56 S ABD	Sacramento Valley
261,360 837 240 M ABCD9EFI	WD4AFY 7,035 98 67 S ABD	N5KDA (+ N5JBZ)	
Southern New Jersey	W1JA 5,376 96 56 S A W4VHH 4,114 67 34 S BDEF	19,500 195 100 L AB	WA6IKE 17,384 176 82 S ABCDE
K2SMN 138,798 486 198 S ABCD9E	K4KAZ 3,600 75 48 S A	New Mexico	N6KBX 2,240 80 28 S B
W2HRW 41,900 334 100 S ABD	W4AQL (KC4ZUB,WD4DWN,N7FYT,N9HZQ,KØDI,	N5JHV 50,240 309 160 S ABD	K6AAW (+ N6EGN, W68 HBU, JEX, WB6FJE,
W2FIRW 41,900 334 100 5 ABD W2EIF 14,976 141 78 S ABCD9E K2YY 12,127 140 67 S ABCDE	ops) 24,108 235 98 L ABD	KNSS 9,324 120 74 S ABD K5MAT 7,616 107 64 S ABCD	KA7DGL) 53,390 410 95 M ABCDE
WB2OYC 11,448 143 72 S ABD	Kentucky	W5IXR 3,216 59 48 S ABCD NK5F 5,278 91 58 Q AB	7 Arizona
WA2ONK 1,998 48 27 S B9	AB4CR 16,224 160 96 S ABD KC4EG 9,315 100 69 S ABCDE	North Texas	N7FJM 1,700 44 34 S ABD W7GZ (+ KB7CI)
K2BWR (+K2ZRJ)	KN4OL 1,050 50 21 S B	KM5X 139,464 557 234 S ABCD	32,750 223 131 M ABCDEIJ
52,003 252 133 M ABCDEF	N4EQT (+ KJ4VH, N4TY, KA8s SSB, YYT, KB8KMG,		WA7JTM (N7AMA,WW7B,ops)
K2AA (W2s ORA,PAU,ops)	N8MFZ,W8ULC,WF8Z)	N5UD 74,648 434 172 S AB	58,310 338 170 L ABD
17,892 195 84 L ABD	230,100 649 295 M ABCD9E	WD5K 58,056 354 164 S A	WA7KLK (+ KA7TEZ,WA7KPH,DL2UF)
Western New York	North Carolina	AA5C 43,361 228 131 S ABCD9EFGHI K9MK 38,750 266 125 S ABD9E	5,494 82 67 L AB
WB2ELB 65,600 314 160 S ABCDEI	N4DT 41,654 255 118 S ABCDEFI	KF5PE 1,026 33 18 S BE	Eastern Washington
K2AN 63,784 315 134 S ABCD9E	WA1EHL 33,235 219 115 S ABCDE	WQ5S (+AA5AM,KY5N)	
	KJ4SO 28,928 214 113 S ABDE	183,481 609 251 M ABCD9EFG	N7JGO 8,584 107 74 S ABD

W7IDZ 3,315 65 51 S A W7PQE 2,535 65 39 S A	W8FK 525 25 21 Q A	KAØVYB (+G1XRL,G4JEC)	DX
W7FHI 1,484 53 28 S B W7KQU 1,232 44 28 S A	WJ8G (+KA8s ZKL,ZXP,KB8s EUN,KDS,KV8S, N8s GGU,HON,KYV,KYW,LON,MYT,WD8IBN) 228,473 711 257 M ABCD9E	6,534 98 54 M ABCDEI KBØZQ (+KBØCV,NØHJZ,WA2PHW,WBØGGM) 210,392 677 289 L ABDE	St Martin FS/KA3B 192 16 12 S A
Idaho W7ID 13,764 125 93 S ABDE	K3LNZ/8 (K3s DUA,ICH,WA3s EOQ,NZL,OYW, K4LHB,W4PSJ,ops) 183,840 580 240 M ABCD9E	Missouri KMØA 54.236 275 182 S ABCD	Belglum ON8WN 1 1 1 S B
KD7IY 7,383 98 69 S ABD KF7CQ 2,430 54 45 S AB	N8FWL (+WF1G,AA8BC,KB8s OTX,EQC,GDU, GGG,KF8LR,N8s KUR,MRD,NHA,NMR,OMV,	NØJRN 53,592 283 168 S ABCD	Bermuda
W7ZRC 1,920 45 30 S BDE WAØDYU (+ KB7FUV,KC7IJ) 27,875 223 125 L AB	WB8CNN,WD8QNJ,WU8Q) 32,922 241 118 L ABCD	WØJRP 47,571 266 157 S ABCD WØZZQ 42,180 262 148 S ABD WØFY 37,200 216 155 S ABCD	WA4VCC/VP9 (+ AA4s R,SC,K4MQG) 46,494 378 123 L AB
Montana	9 Illinois	KBØGR 9,779 127 77 S A KØCB 6,160 88 70 S AB KAØGGI 5,831 119 49 S B	Indonesia
WA7KHO 42,771 265 159 S ABD W7HAH 28,067 221 127 S AB	WA9FTA/9 36,820 263 140 S A WA9GCB 27,306 208 111 S ABD	KØTLM (+AJØE) 141,680 505 253 L ABCD	YB2OK 8,330 125 49 S ABDE Jameica
AA7BG 1,748 46 38 S A WA7PDC 238 17 14 S A	WB9OJR 23,028 152 101 S ABCDE WD9FBL 21,518 159 106 S ABCDE N9BJG 13,580 131 97 S ABD	NØLBM (+KB3HF,KØECH,KAØOFH,KBØV,NØs AMH,CLF,DJY,WØOGS,WAØQQD) 9,248 112 68 L ABD	KB4CRT/6Y5 285 19 15 S A
Nevada K7ICW 19,153 164 107 S ABD	NC9F 11,016 130 72 S ABCD KA9RQC 9,516 107 78 S ABD	North Dakota	Rovers Atlantic
KF7UV 1,127 41 23 S ABD NW7O (+ WB5RQY,KB7IRF,W7TVF)	W9JGV 7,285 155 47 S B W9VA 5,500 100 55 S AB	NTØV 54,282 311 166 S ABDF WAØCSL 45,430 295 154 S A	KD2YB (+WD4RDZ) 38,610 129 117 R ABCD9EFG
11,165 127 77 M ABDEI WA7JUO (+N5TX)	WB9GKA 4,266 73 54 S ABD N9AQ 2,664 72 37 S AB K9LCR 1.064 28 19 S D	WBØOAJ 3,055 65 47 S A KVØR 12,852 153 84 Q A	W2HG 6,027 77 49 R BCD9 WA3UGP 4,323 44 33 R BCD9EFGHIJ
2,736 67 38 L ABD NF7P (+N5PLF)	K9LCR 1,064 28 19 S D WB9MXX 77 11 7 S AB AA9D (+ K9s PW,RO,KA9s CKI,JYI,KB9FFK,	KØALL (+ KNØA,WAØZOK) 50,464 294 166 L ABD	K2KWK 2,208 76 23 R BC WB3W 1,254 66 19 R B
1,281 61 21 L B	N9EDT,W9WI,WB9S EEA,SNR) 345,477 774 361 L ABDE	Nebraska	N1AFQ 800 22 20 R ABCD9G K2SSB 784 41 14 R BCD
Oregon KE7CX 55,860 308 147 S ABCD9 E	Indiana	NØAJU 20,825 175 119 S AB KFØY 20,580 210 98 S A	K3IVO (WA3s KZR,TID,ops) 644 31 14 R BDEI
W7JXU 26,857 216 107 S ABCDE WA3RMX 12,768 135 57 S ABCDEFGHUK	WA8R/9 98,010 387 198 S ABCD9E KC4KK/9 26,574 206 129 S AB	KØUS 11,223 129 87 S A KDØHE 6,336 96 66 S A	N3AOG +WB3DNI) 440 13 10 R 9EFGH
WA7TDU 7,434 95 63 S ABDE KG7FV 2,080 80 26 S B	WB8YFE 25,400 184 127 S ABD WD9ENR 10,956 116 83 S ABCD	WAØBOK 4,200 75 56 S A KCØQR (+WA2JIM,KØNG,KAØJGH,KBØGWS,	Central
K7HSJ 1,025 37 25 S ABCDE W7VOK 182 20 7 S ABCD K7CW (+ WA7UQV)	WF9M 8,001 127 63 S AB W9CSF (K9s DZE,ET,URA,KA9PGC,KB9s FES,	NØUS,WBØs JWQ,QIY,WKR) 75,361 333 187 M ABCDEI	KE9QT 36,188 211 166 R ABDE N9KC (+ KE9SA)
VACTOZ (+AA6TT,NØXX)	FET,NA9N,NY9B,WB9YHH,WD9s BDW,EIX,ops) 75,504 366 176 M ABCDE	NN9K (+K9AKS,W9UD) 158,710 563 269 L ABCD	7,686 65 63 R ABCDE
53,630 322 155 L ABDI NI7T (+KH6WZ,KB7JWM,N7s ONC,QWR,	W9YB (KA9s CCN,CCR,KC9RG,ops) 12,312 130 81 L ABCD	South Dakota	Dakota W7XU 12,193 108 89 R ABCDE
WD8JFR) 39,712 250 146 L ABCD WA7IOH (+ KE7IK,N7OBQ)	Wisconsin	WBØHHM 2,904 58 44 S ABD NØKRX 644 28 23 S B	KFØGX 2,040 51 40 R AB WA2VOI 896 30 28 R ABD
1,550 50 25 L ABCD	WA9LWJ 63,162 348 174 S AB D K9OSH 15,834 164 91 S ABD	VE	Delta
Utah KE7NS 7,070 94 70 S ABD	WA9KVS 13,195 145 91 S AB WA9LZM 12,103 133 91 S A	Maritime-Newfoundland VE1XDX 9,174 139 66 S A	WA5JWU 6 3 2 R B
WA4GPM 5,525 76 65 S ABD W7VXW 2,419 54 41 S ABD	N9OO 3,636 101 36 S B WD9EGE 2,686 44 34 S B DE	VE1BVL 1,548 43 36 S AB VE1AHM 336 19 14 S BD	Great Lakes KK7B 1,431 36 27 R ABD9EFGH
NJ7A 1,767 48 31 S ABD WA7PXD (+WB7VLJ)	WA1UJU/9 1,404 52 27 S B W5ONL/9 1,392 48 29 S AB	VE1MQ 104 13 8 S B VE1ING 9 3 3 S B	Hudson
4,860 77 54 L ABDE	AA9AO 1,176 35 28 S ABD N9GNQ 816 51 16 S B WA9OKB 800 32 25 S AB	Quebec	KB2HQ 18,830 143 70 R BCD9EFGIJ WA1ZYV 2,574 64 18 R BC9EFGHI
Western Washington W7FN 26,091 211 117 S ABD	WA9OKB 800 32 25 S AB W9YCV 264 12 11 S D N9CIQ 7,452 108 54 Q BD	VE2DUB 12,642 131 86 S ABCDE VE2FUT 7,194 87 66 S ABCD9E	WB2BEJ 88 16 4 R ABCD K2BST 14 7 2 R AB
W7FI 23,793 231 103 S AB WB7UUP 8,235 126 45 S ABCD9E	WØUC/9 (+KA9FOX,WB9QNX,KØFVF,NØs AKC, BSH) 407,008 997 368 M ABCD9EF	VE2XL 1,665 45 37 S A VE2PJ 44 11 4 S B VE2TH 9,315 115 87 Q A	Midwest
KA7HLB 2,912 91 32 S AB NU7Z (+ K7ND)	K9VGE (N9KS,WF9X,WS9E,ops) 102,555 412 215 M ABCDE	VE2UMS (VE2s BAP, DRW, MLX, XE, ops) 1,653 79 19 L BD	WAØTKJ 263,725 473 385 R ABCDE AJØE (+KØTLM)
57,596 375 119 M ABCD9EF K7SS (+ AA7FT, W7AWA)	WJ9H (+ KA9JPZ) 420 21 20 L B	Ontario	20,648 136 116 R ABCDE WYØC 624 26 24 R B
25,668 276 93 L AB	0	VE3FGU 48,944 294 152 S AB D VE3BGH 32,816 293 112 S AB	NFØQ 375 20 15 R BD
Wyoming WA7KYM (+KDØGS,WØKYJ,SII)	Colorado K7VNU 21,658 176 119 S ABD	VE3EYR 22,969 186 103 S ABCDE VE3EWP 22,950 197 102 S ABD	New England KC1EB 33,284 163 106 R ABCD9EFGHI
123,384 521 212 L ABDE	NØZA 19,380 190 102 SAB WØETT 9,920 108 80 SABD	VE3VD 21,930 175 86 S ABDE VE3SMA 14,212 156 68 S ABCDEGI	N1ISB 9,800 80 56 R BCD9EFGHI KA1WER 3,473 108 23 R BCD
Michigan	KDØSU 3,774 74 51 S A KDØGD 3,650 73 50 S A	VE3PFC 11,410 153 70 S ABCGI VE3WCB 7,228 111 52 S ABE	KJ4KB/1 104 13 8 R B
KB8JI 47,728 269 152 S ABCD KU8U 43,615 272 143 S ABD K8MD 37,592 241 127 S ABCD9E	WBØZ 1,120 40 28 S A KBØNN 1,020 34 30 S A KØCS 420 30 14 S B	VE3PRF 6,930 90 66 S ABDI VE3BFM 2,765 64 35 S ABD	Northwestern KA7MCX 4,796 109 44 R A
K8MD 37,592 241 127 S ABCD9E N8LMT 34,968 282 124 S AB N8JTB 17,808 168 106 S AB	WA7NWP 15 5 3 S B NØKV (+WA1JHK,NØBZ)	VE3DSS 2,460 61 30 S ABCDE VE3EZP 2,079 77 27 S B VE3SST 2,072 52 37 S ABC	N7DB 3,910 83 46 R ABD KI7Z 3,103 82 29 R BD
WA8EUU 12,168 102 52 S D9E WG8Q 11,178 207 54 S B	153,090 638 210 M ABCD9EFI W2CRS (+ KAØKAN)	VE3DIR 1,273 32 19 S ABDE VE3FVW 1,159 39 19 S ABDE	Pacific Colon 155 110 P. 100P
WB8TGY 5,148 101 44 S BCF WB8OGM 4,332 114 38 S B	109,011 483 203 M ABCDEFI WØKEA (+ W1XE,WB5JAR,NØs BRI,DVL)	VE3DJ 976 45 16 S BDE VE3RKK 2,871 79 33 Q BD	K6LMN 20,068 155 116 R ABCD KF6CU 8,268 123 52 R ABCD NC7K 384 24 16 R B
WA8WPI 3,726 69 54 S A AC8W 2,210 65 34 S B	150,552 583 246 L ABDE WBØITG (+WAØEDW)	VE3ONT (VE3s ASO,FN,KDH,KA2RDO,W3EP, W9IP,ops) 344,112 838 321 M ABCD9EFI	Rocky Mountain
WBBAAX 936 39 24 S B WW8M (+K8VQN,KC8Z,N8s ERM,NQS,OBT,	16,900 165 100 L ABD NØHAX (+KFØKR)	VE3BQN (+ VE3s EHS,RBS) 83,620 410 185 L ABCD	KBØCY (+ WA6TTY) 55,510 278 182 R ABD
NEBI,WABVPD) 225,000 654 250 M ABCD9EF N8HNS (+ KC4OXG,KB8s KQB,MFZ,N8s IMO,	4,880 87 40 L BCD WØIA (KAØDXM,NØFZB,WØJF,OZ1,JIW,ops) 4,879 101 41 L ABCD	VE3SAU (VE3s FHU,OJN,ops) 12,900 139 86 L ABD	W6MXY 49,856 172 164 R ABCDE WB7REL (+ N7LPP)
JTV,LUG,MUZ,WA8TON,WB8EET) 50,544 277 144 M ABCDE	4,879 101 41 L ABCD	Manitoba	1,353 37 33 R ABD
KU8Y (+ KA8TBW, NQ8A) 60,261 328 159 L ABCD	NØCIH 26,100 190 116 S ABCD9E WBØCQO 22,458 197 114 S A	VE4AQ 11,590 116 95 S ABDE	Roanoke KJ4BF (AJ4N,KC4YJC,ops)
N8MKH (+N8OMN) 10,010 130 77 L AB	KFØAU 10,384 176 59 S B WDØFOY 8,892 106 78 S ABD	Saskatchewan VE5UF 50,299 281 179 S A	58,891 235 179 R ABCDEFI KD4BCV (+ KD4BCT)
N8KWX (+ WK8L) 1,275 51 25 L B	KDØZY 6,555 95 69 S AB KØJQA 1,830 61 30 S B	VE5LY 8,190 105 78 S AB	3,567 84 41 R BD
Ohio	KDØBT 816 36 17 S BD WØRAP 75 5 5 S E	Alberta VE6NOV 21,312 204 96 S ABD	Southeastern KB4KKG 2,301 59 39 R AB
WD8ISK 152,802 489 234 S ABCD9EFGI KE8FD 62,156 306 164 S ABCD	NØGPD 4,320 80 54 Q A WØRPK (+KØS IQR,VM,NØS FIB,JAS,JEG,NOU,	VE6TA 16,610 145 110 S ABD VE6BOJ 7,250 110 58 S ABD	K1FJM/4 465 29 15 R ABD
N8AXA 14,507 138 89 S ABCD AA8Q 8,586 159 54 S B	WAØJFS,WBØOEU,WRØG) 146,594 486 259 L ABCD	VE6AFO 1,734 45 34 S ABD VE6AFO 1,734 45 34 S ABD VE6GIL 500 25 20 S A	Southwestern WB9AJZ (+ N6RPM)
W8RQQ 5,655 145 39 S B N8CCC 5,459 94 53 S ABCD WD8DCX 4,268 83 44 S ABD	Kansas	VE6JW (+ VE6JY) 23,920 224 92 L ABDE	9,420 136 60 R ABDE WA6EJO (+WA6JOX)
W8OUD 3,395 97 35 S B WA8SVV 3,300 75 44 S AB	NØLL 213,597 629 293 S ABCDE KBØHH 101,016 403 207 S ABDE	British Columbia	782 17 17 R BCDIL K6KAA 736 46 16 R ABC
KB8JVH 2,208 69 32 S B W8LHV 1,560 52 30 S B	NØFFO 74,822 388 179 S ABDE NØJEQ 11,692 120 74 S ABDE WDØG 4,872 84 58 S A	VETXF 8,322 127 57 S ABD VETBLF 5,082 100 42 S ABCD	WA6IJZ 480 24 20 R A
WB8JAY 1,368 48 24 S BD W8HBG 1,300 48 25 S BD	WAØCFQ 3,311 77 43 S A WØRT 2,415 49 35 S BD	VE7ASI 1,748 57 23 S BCD VE7PRC (VE7s ASY,ASZ,BEE,DAN,EHF,EHO.	West Gulf N5DZS 48 6 4 R C
WASRCN 1,260 45 28 S A WBXT 1,200 46 24 S ABCD	KØVUA 703 26 19 S BD WQØP (+KWØT)	FUR,KEV,KMD,QP,RJ,ops) 5,605 95 59 L AB	Canada
K8MR 946 43 22 S B WABNPX 680 34 20 S B	166,278 518 259 M ABCDE WBØDRL (+ KFØM,KXØO,NØKSC,NOØY)	VETSKA (+VETFEI) 2,100 64 30 L ABD	VE3NPB (+ VE3OIL) 10,626 127 77 R ABD
K8WW 546 21 13 S D K3ZAP 369 33 9 S ABCD KA8PQC 286 22 13 Q B	468,470 1013 395 L ABDE	VETVHF (VE7s BPB,CIM,FYM,PTR,ops) 1,088 43 17 L BDE	VE3NJK 646 17 17 R BCDEI VE6NOW 200 21 8 R BD
WASNJR (+ KBSHLL) 91,948 408 181 L ABCD	Minnesota WAØBWE 91,182 426 182 S ABCD9E	VE7KPB (+ VE7ZAC) 180 16 10 L BD	nv.
KE9I (+ KA9ZFG,N9QX,WD8LLR,WM9M) 37,373 246 133 L ABCD	AJØK 15,582 159 98 S AB KØIR 14,280 137 85 S ABCDE	Marine Mobile	DX Mexico
West Virginia	WA2HFI 19,992 204 98 Q AB NØMWH 78 10 6 Q BD WØOHU (+ NØBSG)	VE3YRA/MM (VE3s AAY,OXD,SST,WHY,ops) 6,844 106 59 L ABD WA2GEZ/MM (+WA2TMF,WB2DGM)	XE2/N6CW 4,293 81 53 R AB
W8TN 14,444 146 92 S ABD K2PQI 1,050 42 25 S B	7,735 89 65 M ABCDE	3,404 92 37 L AB	Checklogs: KA2MCU, WA3AXV, WA6JYU
WB8K 5,830 100 55 Q ABD			