

Results, 1992 ARRL June VHF QSO Party

Six meters sounded like 20 meters in the November Sweepstakes!—John, NE0P

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

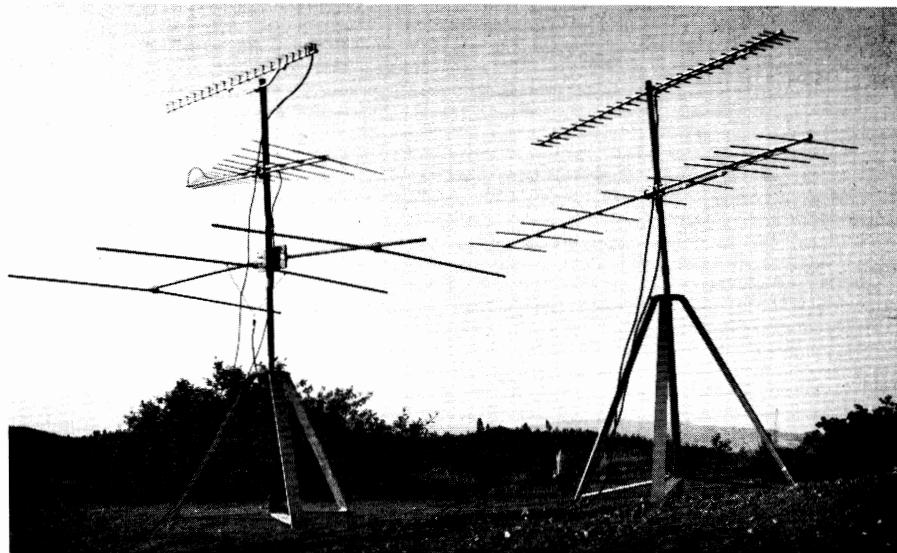
Even for those of us who've come to expect sporadic-E propagation to be the major source of excitement in the June VHF QSO Party, this year's contest was a treat that we'll not soon forget! Several participants described the contest as the wildest multiregional E-skip event in recent history, and the logs certainly support that conclusion. For instance, of WB0DRL's 976 6-meter QSOs and absolutely incredible 278 grids, several QSOs came from Japan and other juicy DX locations! The W0UC/9 crew was second to 'DRL on six with 832 Qs and 272 grids.

Two meters also wowed the crowd with widespread sporadic-E openings. N0KV in Colorado worked almost two dozen grids on this mode, and many other stations reported 10 or more extra multipliers thanks to the openings. Reports of E-skip QSOs also came from Cuba, the Southeast, Ohio, and as far north and west as Idaho and Manitoba. It's safe to say that it may be years before this year's propagation treats on 6 and 2 meters are repeated!

The result of the fabulous 6-meter conditions, last seen at this level in the 1987 June contest, was a very tough choice for single operators: "Do I stay here on 6 meters, or do I head for the other bands to work all the people I'm missing?" Many operators made the decision to stay on six at the expense of the other bands, which was probably the right decision. Number ten single op K5CM showed that this approach was successful with an amazing 846 6-meter QSOs and 256 grids. Wow! Fourth-place N0LL was close behind on six with 739 Qs and 249 grids.

The contest's conditions and great activity brought about 17 new Division records, including all-time scoring records in four of the five operating categories: Single Operator (K5UR), Multioperator (W2SZ), Limited Multioperator (WB0DRL), and Rover (KJ4BF). Only K1JX's QRP-Portable record stood.

Great 6-meter conditions often open the door for widely scattered competition,



KF6CU's home-brew tripods and simple antennas helped him to a third-place Single Operator finish in the Santa Clara Valley Section.



The record-setting Limited Multiop WB0DRL crew, left to right: Christopher, N0SGL; Alan, WB0DRL; Lauren, KX0O; Jon, NO0Y; Dean, WA0TKJ; and Philip, W0MXY.

Single Operator QSO Leaders By Band

50 MHz	432 MHz
K5CM	846
N0LL	739
N5HHS	663
K1LL/0	648
N5UD	643
AB4RU	602
KM5X	602
WD4MGB	593
K5UR	576
WD5EW	570
KB5QKS	568
W2CRS	555
W3XO/5	535
W5OZI	533
KM1H	530
144 MHz	902 MHz
WA3HMK	345
WA2TEO	288
WB2QQ	260
W9/G4FDX	234
K1RZ	230
K5UR	230
K3ZO	227
W3ZZ	219
N3FUJ	213
WA8NJR	208
K3IWK	207
W1XX/2	204
N2CEI	200
WF8C	199
AA8Q	198
VE3BQN	198
222 MHz	1296 MHz
WA2TEO	65
N2CEI	62
K6IBY	56
K5UR	49
WA8NJR	49
W1XX/2	45
WB2DNE	43
W3ZZ	40
K2XA	38
K1RZ	38
WB9OJR	38
N2LIV	37
K4LHB	36
N1DPM	35
N3FUJ	34

Single Operator Multiplier Leaders By Band

50 MHz	432 MHz
K5CM	256
N0LL	249
KM5X	215
N5UD	212
K5UR	203
WD5EW	202
W5OZI	202
K1LL/0	201
AA6TT	200
N5HHS	198
WZ8D	195
K2RTH/4	194
W7FI	194
KM1H	193
WD4MGB	193
144 MHz	902 MHz
W9/G4FDX	60
WA3HMK	58
K5UR	58
AA8Q	57
WA8NJR	52
WF8C	52
KE8FD	51
AA4ZZ	48
K8CC	47
KB8VH	47
K1RZ	46
W3ZZ	46
K3ZO	46
WB9OJR	46
N9EMC	46
222 MHz	1296 MHz
WB9OJR	32
K5UR	23
WA8NJR	23
WZ8D	23
KE8FD	23
WA2TEO	22
W1XX/2	20
N2CEI	20
W3ZZ	20
WB2DNE	20
K4LHB	18
K2RZ	17
WA8TJL	17
WB9MSV	17

especially in the Single Operator category. Like last year, the 1992 contest produced a diverse field, with seven ARRL Divisions represented in the top ten entries. Rick, K5UR, ran away from the field again this year with a stunning 398,832 points, leaving perennial top-tenner Jeff, WA2TEO, far behind with 337k. Third-place N4EQT and the other single ops brought in scores under 300k, but it took a remarkable 216k to make the top ten!

W2SZ once again took the multioperator category, with an almost unfathomable 1.575 million points. Only the second station in ARRL June contest history has broken 1 million points: K1TR/3's 12-operator team posted a 1.1M-point score, thanks to perfect weather and an efficient hilltop operation in Eastern Pennsylvania. Wayne, N2WK, and crew went back to their Western New York hilltop and made an 850k-point crusade with notably excellent totals on the microwave bands. For the second year in a row, all of the Northeast enjoyed fabulous weather during this year's June contest, which undoubtedly played a role in the success of the top Multiop stations, all of which mobilized portable operations.

The Limited Multioperator category was again a huge success. For the second year in a row, Kansas station WB0DRL handily stomped all comers. KB4NT took second from Virginia, and K5MA/1 came in third from Cape Cod. This field, represented by six call areas, was also geographically diverse. And as always, the competition was fairly tight for the top ten box.

The weekend's weather was perfect for QRP-Portable operation in almost everywhere—except for, of all places, the Southwest! Several stations reported below-freezing temperatures and, slightly farther northeast, snowfalls of over a foot! Undaunted, many stations braved the elements for the thrill of competition. The Eastern Seaboard again dominated this category, with WB2ELB's 62k taking first, W2XL's 52k entry second, and N0HJZ's close third with 51k. Only two of the top ten QRP-Portable entrants operated outside the first, second and third call areas.

Roving, a category available to more stations than perhaps any other, continues to grow in popularity. KJ4BF eclipsed WA0TKJ's record with a huge 285k score, followed by other Southeastern entrants N4DT at 176k and N4YJZ at 164k.

All the interesting propagation led to an unusually large DX turnout this time around. Thanks to the 10 stations who turned in logs from six countries outside the US and Canada! We hope to work you next year!

By popular demand, we've made a change to the way we report Rover-category scores. Thanks to input from active Rover stations, we've added the number of grids from which each Rover operates as the last item in the Rover score lines. This year, the WB0OEU team hit 15



As WR3I prepares for QRP-Portable competition in the June VHF QSO Party, we have to wonder if Triangle Rent-A-Car has any idea what he's putting its van through!



Tim, NC7K, atop 8100-foot Pond Peak (grid DM09) the afternoon before he awoke to ice and snow covering the mountain!

Multipoperator QSO Leaders by Band

50 MHz	432 MHz
WB0DRL-L 976	W2SZ/1 317
W0UC/9 832	K1TR/3 242
W2SZ/1 793	N2WK 220
WA7KYM 791	W3CCX 180
AA9D 749	N8FMD 123
K1TR/3 718	A9D 114
WA4CQG-L 660	K3YTL-L 113
NN9K 655	K5MAV-L 106
KC4YO 630	N2WB 102
KB4NT-L 621	N4HB-L 101
C6AFP-L 596	K6MEP 96
W0KEA-L 562	VE3ONT 94
W3CCX 561	W1TKZ-L 86
WQ0P 551	K3LNZ/8 85
(EM19) 549	KB4NT-L 81
VE3ONT 549	NN9K 81
144 MHz	902 MHz
K1TR/3 641	W2SZ/1 73
W2SZ/1 628	N2WK 62
N2WK 509	W3CCX 42
W3CCX 498	K1TR/3 41
K3YTL-L 458	N2WM 20
K5MAV-L 408	WW8M 14
N2WM 405	K3LNZ/8 12
N8FMD 345	WB2IEY 9
W1TKZ-L 334	W0SS 8
K6MEP 333	AA9D 7
W41Y-L 320	W0UC/9 6
N4HB-L 316	VE3ONT 6
VE3ONT 305	K1DS 5
AA9D 294	N8FMD 5
N4EQT-L 283	N2WM 5
222 MHz	1296 MHz
W2SZ/1 144	W2SZ/1 107
N2WK 144	N2WK 73
K1TR/3 134	K1TR/3 67
W3CCX 107	W3CCX 60
K6MEP 102	N2WM 37
K3YTL-L 79	K6MEP 33
VE3ONT 75	W41Y-L 30
K5MAV-L 72	VE3ONT 30
WB2IEY 68	WW8M 27
AA9D 59	WB0DRL-L 26
N8FMD 58	NN9K 25
N2WM 57	AA9D 24
KB4NT-L 49	K3LNZ/8 23
NN9K 48	W0SS 19
WW8M 46	K3QM 19
-L after a call sign indicates Limited Multipoperator.	W0UC/9 19
	N4HB-L 18
	AB2I-L 17

-L after a call sign indicates Limited Multipoperator.

grids, W7XU hit 14, and winner KJ4BF operated from 9 squares. Start planning your strategy for next year!

Log submissions were up from last year by over 130. Of these, 127 came from single operators. All the other categories except Rover (which is up this year by 22%) drew about the same number of entries as last year. Although the increase in single-op entries in this year's June contest probably resulted largely from the great conditions enjoyed by entrants all over the US and Canada, we still encourage everyone who participates in the VHF-and-up contests to submit logs! The more we know about participation, the better job we can do reporting the results and checking logs for accuracy. And when it comes to defending our precious frequency allocations, showing our activity speaks loudly in our favor!

See you in the January SS!—NJ2L

SOAPBOX

This is my first VHF contest, and I was surprised how much fun it was (KO4ER). This is only my fifth VHF contest, and I continue to enjoy it very much (KA2AUQ). Family commitments and antenna problems reduced my operating time, but I was able to take advantage of some of the terrific band openings and to work almost ten new grid squares (WB2AMU). I was getting jealous hearing about

Multipoperator Multiplier Leaders By Band

50 MHz	432 MHz
WB0DRL-L 278	AA9D 52
W0UC/9 272	NN9K 44
AA9D 253	N8FMD 42
NN9K 252	W2SZ/1 41
KB4NT-L 227	K1TR/3 41
KC4YO 216	K3YTL-L 39
W0KEA-L 216	K3LNZ/8 39
K0ALL-L 216	WB0DRL-L 38
WA7TDZ-L 212	W3CCX 37
VE3ONT 212	N4EQT-L 37
W2SZ/1 211	KB4NT-L 35
WA7KYM 211	VE3ONT 35
K1TR/3 204	N2WK 34
W0SS 203	N4HB-L 34
WA4CQG-L 203	W41Y-L 31
WQSS 203	WW8M 31
144 MHz	902 MHz
AA9D 81	N2WK 18
N8FMD 69	W2SZ/1 17
K9MRI 63	K1TR/3 17
NN9K 62	N2WM 11
N4EQT-L 62	WW8M 10
KC4YO 61	K3LNZ/8 8
W8BI-L 59	A9D 7
W0UC/9 59	VE3ONT 6
W2SZ/1 58	K1DS 5
WB2IEY 58	WB2IEY 5
W0SS 56	N8FMD 5
W41Y-L 56	WQSS 3
W3CCX 54	K9MRI 3
N8FMD 52	
WB0DRL-L 50	
222 MHz	1296 MHz
W2SZ/1 35	N2WK 22
VE3ONT 35	K1TR/3 22
W3CCX 34	WB0DRL-L 21
NN9K 20	N2WM 19
K1TR/3 33	W3CCX 19
N2WK 31	A9D 18
W2SZ/1 30	VE3ONT 17
K3YTL-L 30	WW8M 16
N8FMD 29	N2WM 15
WB0DRL-L 28	W41Y-L 14
KB4NT-L 28	K3LNZ/8 14
W3CCX 27	WB2IEY 14
WB2IEY 26	W0SS 14
W2SZ/1 25	(EM19) 13
N4EQT-L 25	W0UC/9 13
K3LNZ/8 23	W2IOG-L 11
N2WM 21	K6MEP 11
-L after a call sign indicates Limited Multipoperator.	

Division Leaders

Single Operator

Division	Call	Score
Atlantic	K1RZ	248,688
Central	WB9MSV	108,262
Dakota	WA8BWE	200,187
Delta	*K5UR	398,832
Great Lakes	*WA8NJR	239,680
Hudson	*N2CEI	269,619
Midwest	*N0LL	272,790
New England	WA2TEO	336,936
Northwestern	*KE7CX	118,035
Pacific	W6RXQ	23,166
Roanoke	WB4DBB	132,591
Rocky Mountain	*W2CRS	162,400
Southeastern	KA2DRH	153,339
Southwestern	K6IBY	28,917
West Gulf	KM5X	218,350
Canada	*VE3BQN	145,418

Multipoperator

Division	Call	Score
Atlantic	*K1TR/3	1,081,200
Central	AA9D	694,032
Dakota	KA0VYB	18,473
Delta	*KC4YO	333,000
Great Lakes	WW8M	234,900
Hudson	N2WM	351,080
Midwest	NN9K	488,166
New England	*W2SZ/1	1,575,843
Pacific	WA6YDI	37,286
Roanoke	N8FMD	383,792
Rocky Mountain	*WA7KYM	248,040
Southwestern	K6MEP	190,141
West Gulf	WQSS	259,860
Canada	VE3ONT	544,500

Limited Multipoperator

Division	Call	Score
Atlantic	*K3YTL	281,940
Central	N3IPR	32,131
Dakota	K0ALL	127,912
Delta	*W4FB	123,205
Great Lakes	*N4EQT	287,664
Hudson	*K2AE	62,565
Midwest	*WB0DRL	516,258
New England	*K5MAV	285,055
Northwestern	*WA7TDZ	158,862
Pacific	WB7TDI	26,280
Roanoke	*K8ANT	364,634
Rocky Mountain	*W0KEA	182,178
Southeastern	*WA4CQG	182,979
Southwestern	*WA7JTM	64,440
West Gulf	AA5IB	40,736
Canada	VE6JW	83,166

* denotes new division record

Top Rover Scores

Call	Score
KJ4BF	285,640
N4DT	176,130
N4YZJ	164,300
WA4VCC	113,730
KE9QT	93,126

weekend? I worked eleven stations on 2-meter E skip and heard several more that I missed (N4VC). The contest had a good six opening! (WB4CTW). This is my first contest. I enjoyed the challenge but wished I could have worked more stations (N7XCZ). I never thought I would top the scores of 1987's contest! This was the best opening ever for a contest, but I don't understand why most of the local operators also disappeared with the band opening (N8CCC). What a great contest! The opening on 6 meters sure made it happen here and working C6AFP and XE3EB were nice bonuses (WB0CQO). I did not think that I would get so involved! I had a great time, and couldn't leave the shack! (VE6CMC). Don't you hate it when you call in sick, and your boss is one of your QSOs! (VE7CYT). We had one electrical storm after another during the last half of the contest, and I had to QRT several times (W9KDR). It was a really fun contest considering the big 6 meter opening on Saturday evening. I did feel that I fell behind on the other bands since I spent so much time working 6 meters (WB2DNE). These were the best conditions ever! I tripled my best score, and I thought last year was good! (KA2DRH). The conditions were the best I ever heard on 6 meters; I worked 10 countries, 44 states and 176 grids. As a result, I neglected other bands (WB4DBB). It was amazing just how well 3 watts would do in this contest. A group of my friends visited my concrete mountain in El Segundo, and were amazed at my long dis-

Plaque Winners

Single Operator

1st	K5UR	398,832	Mt Greylock Expeditionary Force, W2SZ/1
2nd	WA2TEO	336,936	Bald Knob VHF Contest Group
3rd	N0LL	272,790	Kenwood USA Corporation
4th	N2CEI	269,619	Midwest VHF/UHF Society
5th	K1RZ	248,688	Delaware Valley VHF Society
6th	WA8NJR	239,680	Ed Parsons, K1TR
7th	W1XX/2	230,748	Eastern VHF/UHF Society
8th	KM5X	218,350	Wellesley ARS, Mt Equinox Contest Crew
9th	K5CM	216,576	Garnett Hill Gang, N2WK
10th	WZ8D	207,612	WB0DRL, KA0KUY, WB0GAH, WB0OPI, WB0P, KB0HH, N0LL

QRP Portable—Single Operator

1st	WB2ELB	61,777	Dick, K2RIW and Jay, K2OVS
2nd	W2XL	52,632	Peter Putman, KT2B
3rd	N0HZ	51,405	Long Island Mobile ARC
4th	KA1LMR	36,822	West Coast VHFer
5th	AF1T	31,146	N3JBS and K3QQ

Rover

1st	KJ4BF	285,640	Rus Healy, NJ2L
-----	-------	---------	-----------------

Multioperator

1st	W2SZ/1	1,575,843	Randy Stegemeyer, W7HR
2nd	K1TR/3	1,081,200	N2LIV, N2GHR, N2BFJ Contest Team
3rd	N2WK	849,456	Chip Angle, N6CA
4th	W3CCX	777,214	Kenwood Employees Radio Club, WD6DJY
5th	AA9D	694,032	Mt Airy VHF Radio Club
6th	VE3ONT	544,500	Jon K Jones, MD, NOBY
7th	W0UC/9	528,804	N1DPM and KA1ZE, Dedicated to the Frontier Above 432 MHz
8th	NN9K	488,166	Ajde, WA0TKJ, KBTL, WB0CY, KF0M, NOBY, K5IS
9th	N8FMD	383,792	Rochester VHF Group
10th	N2WM	351,080	ARRL

Limited Multioperator

1st	WB0DRL	516,258	W3EP, K9AKS, W9IP
2nd	KB4NT	364,634	Kenwood USA Corporation
3rd	N4EOT	287,664	Kenwood USA Corporation
4th	K5MA/1	285,055	WA2TEO, W2GKR, W2GKO, KA1FVG
5th	K3YTL	281,940	KA2AEV, KZ2S, KA3JNN, N4HY, NZ4K, WD8IXE

Marine Mobile

1st	VE3YRA	21,507	Wayne T. Yoshida, KH6WZ
-----	--------	--------	-------------------------

DX Single Operator

1st	XE3EB	68,440	Bill Tynan, W3XO
-----	-------	--------	------------------

DX Multioperator

1st	C6AFP	99,532	Robert J Carpenter, W3OTC
-----	-------	--------	---------------------------

tance contacts (WA5DJJ). Murphy caused a long delay in my getting started, and having to quit early. The contest was interesting (VE3DJ). When you score five times more than all your previous efforts put together, you know you're making progress (KM4EM). The conditions were unbelievable, especially on 6 meters. The highlight of my operation was working CO2KK on 2 meters. A storm knocked out the power here with three hours left in the contest. I had loads of fun! (WD5EW) This is my first contest. I had a great time and can't wait for September (KD6ECL). I found signals to be very good on VHF, but activity on UHF was sparse. Halfway through the contest I was unable to finish due to "Murphy." (WD6EPV). It was a super contest but it was cold and we needed a heater for

our tent (K7HEN). We found VHF contest conditions for us to be best ever. The 2-meter E_s was good for 45 QSOs in 18 grids on Sunday. I finally got a good 2-meter E_s during the contest! I knew it would happen some day (W0KEA). The 90 degree plus June weather in the Northeast proved easier to get around in for us rovers than January. What does driving over 600 miles, snowmobile races, salmon fishing, and Adirondack mountain-topping have in common—the June VHF QSO Party (WA2EQW). Wow, 6 meters was open virtually the whole contest. The only thing missing was a good Aurora to nail the close-in grids. With all the activity on 6 meters, I think 2 meters and above suffered from lack of activity (VE6TA). Our operations were

limited to only three hours due to an ice storm that forced us off the mountain. We could not erect anything larger than a 4-element Yagi due to adverse weather conditions. We had anticipated using stacked boomers on 2 meters, but could not, as they were frozen to the truck (VE7EHQ). I lost my voice somewhere between my house and setting up (KA1FVG). This was my first VHF contest and I enjoyed it very much (KA2FBJ). A miraculous Saturday night sporadic E-scatter opening occurred on 144 MHz. Manitoba, North Dakota, Minnesota and Wisconsin, all worked during a 27-minute-long band opening that began at 0140 UTC Saturday evening. This was my first contest and I sure did enjoy all the activity. I heard signals all through the night (KD4FCT).

Scores

Scores are listed by ARRL and Canadian Sections and DXCC Countries. 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 multioperator, R = Rover), number of grids activated (for Rovers), and bands worked (A = 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, E = 902 MHz, F = 1296 MHz, G = 2.3 GHz, H = 5.7 GHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = Light). Among single-operator stations, single-band winners are noted with band letter(s) in boldface print indicating the band won.

1

Connecticut

WA2TEO	336,936	917	278 S	ABCD9E
K1GX	67,854	352	129 S	ABCDFG
WZ1V	47,840	281	130 S	ABD9
N1ABY	11,928	166	71 S	A
K2LME	9,988	189	44 S	BE
N1FHR	5,600	100	56 S	AB
W1QJL	3,773	76	49 S	ABD
WO1P	2,507	109	23 S	B
K1WVX	2,100	57	35 S	ABD
N1LUR	1,729	91	19 S	B
AB1U	1,419	41	33 S	AD
WB1UB	416	52	8 S	B
N1MPG	220	55	4 Q	B
W1QK (+ KA1SYG)	66,640	488	112 L	ABCD
W1AW (NM1K, W1VK, ops)	10,080	129	70 L	ABD

Eastern Massachusetts

K1DAT	31,640	264	113 S	ABD
WB1FKF	29,665	196	85 S	ABCD9EFGHI
KB1KM	24,192	200	96 S	ABCDE
KC1K	9,359	141	49 S	ABCD
NZ1D	5,253	100	51 S	ABC
AA1AO	4,896	88	51 S	ABD
W1GXT	2,190	47	30 S	ACD
N1GYU	2,100	99	20 S	BC
KA1EKR	1,092	78	14 S	B
W1JOT	793	49	13 S	B9
WB8TSL	20,580	196	105 Q	A
WA1LBK (+ N1IGJ)	8,580	123	55 M	ABCDE
K5MA/1 (+ KA1IOR, N1HQO, WA1YKN, N6BV)	285,055	1035	235 L	ABCD
W1XM (KA1RCV/N1s DAM, JDY, KHA, N4LDW, ops)	12,566	180	61 L	ABD

Maine

WB1APD	3,381	69	49 S	AB
K1OYB	1,598	39	34 S	ABC
WB9DR/1	312	26	12 S	B
WA1TDA	12	4	3 S	B

New Hampshire

KM1H	173,152	744	224 S	ABC
N1HO	36,176	271	119 S	ABD

Vermont

WB1QOR	12,848	139	88 S	ABCD
K1LPS	12,516	125	84 S	ABCD
N1GPY	6,290	94	67 S	AB
KA1VLH	4,968	92	54 S	AB
N1DIO	1,645	47	35 S	AB
KA2FBJ	363	33	11 S	B
KB1V	11,726	143	82 Q	AB
W1TKZ (KA1DHV, KC1ts PR, US, N1s, CPE, FXG, HXO, ICO, NT1L, NTM, NY1J, WO1G, WN1N, WA2TF, ops)	220,190	851	227 L	ABCD

Western Massachusetts

N1DPM	97,026	388	157 S	ABCD9EFGI
WA1MBA	32,092	256	71 S	BDSEFG
K1ISW	24,752	232	91 S	ABCD
NA1W	9,048	120	52 S	ABCD9EF
N1EJG	8,468	137	58 S	ABD
N1FUS	3,549	150	21 S	BC
W1RIL	2,470	36	26 S	ABCD9EFGHI
WA1ZUH	1,105	57	17 S	BD
K1JG	600	40	15 S	B
N1HMP	528	44	12 S	B
K1II	8,268	135	53 Q	ABCD
KR1R	406	51	8 Q	B

Multioperator

1st	W2SZ/1	1,575,843	Randy Stegemeyer, W7HR
2nd	K1TR/3	1,081,200	N2LIV, N2GHR, N2BFJ Contest Team
3rd	N2WK	849,456	Chip Angle, N6CA
4th	W3CCX	777,214	Kenwood Employees Radio Club, WD6DJY
5th	AA9D	694,032	Mt Airy VHF Radio Club
6th	VE3ONT	544,500	Jon K Jones, MD, NOBY
7th	W0UC/9	528,804	N1DPM and KA1ZE, Dedicated to the Frontier Above 432 MHz
8th	NN9K	488,166	Ajde, WA0TKJ, KBTL, WB0CY, KF0M, NOBY, K5IS
9th	N8FMD	383,792	Rochester VHF Group
10th	N2WM	351,080	ARRL

Limited Multioperator

1st	WB0DRL	516,258	W3EP, K9AKS, W9IP
2nd	KB4NT	364,634	Kenwood USA Corporation
3rd	N4EOT	287,664	Kenwood USA Corporation
4th	K5MA/1	285,055	WA2TEO, W2GKR, W2GKO, KA1FVG
5th	K3YTL	281,940	KA2AEV, KZ2S, KA3JNN, N4HY, NZ4K, WD8IXE

Marine Mobile

1st	VE3YRA	21,507	Wayne T. Yoshida, KH6WZ
-----	--------	--------	-------------------------

DX Single Operator

1st	XE3EB	68,440	Bill Tynan, W3XO
-----	-------	--------	------------------

DX Multioperator

1st	C6AFP	99,532	Robert J Carpenter, W3OTC
-----	-------	--------	---------------------------

2

Eastern New York

W1X/2	230,748	789	246 S	ABCD9E
WA2BAH</				

NX2Q (+KB2KIR,N2s AAM,DXP,FHC,MCV,QBR,
NJ2Y)
52,920 365 135 L ABDE
WB2RFF (+ KA2ING)
19,596 213 92 L AB

Southern New Jersey

WC2F 114,873 433 177 S ABCD9EF
K2YY 81,567 400 171 S ABCDE
W2HRW 76,415 432 145 S AB
K2ZJR 62,291 278 167 S ABCDEF
W2EIF 17,512 143 88 S ABCD9EF
W2PAU 17,266 178 97 S AB
KA2WKA 6,107 197 31 S B
N2EAA 1,260 84 15 S B
WB2VVV 6,672 93 48 Q ABDE

Western New York

K2AN 45,795 279 129 S ABCDE
K2ADQ 10,600 173 50 S ABCD
W2CNS 7,920 120 33 S D
N2HVD 4,890 135 30 S ABD
KE2GD 3,993 121 33 S AB
W2MAU (W2RHO,ops) 3,650 73 50 S A
W2WGL 3,080 70 35 S BD
KE2UR 1,278 71 18 S AB
W2UAD 1,274 49 26 S B
N2LZH 666 37 18 S B
N2BKS 432 27 16 S B
K2MPE 276 23 12 S B
N2NUM 55 10 5 S BD
W2CXM (N3EEN,ops) 25 5 5 S B
WB2ELB 61,777 345 163 Q ABE
N2WK (+K2OS,K2A2KHS,SDO,K2SE2,KE2W,
N2DKP,W2as LAQ,MOP,TMC,WB2QJ,KD5RO)
849,456 1553 347 M ABCD9EFGHIL
KU2A (+WA2TEV,WB2QBO) 12,558 125 78 M ABCD9E
N2LXD (+AA2GV,K2B2F,VFZ,OAZ,N2s LDX,L,Y,
MLT,NY2Z,W3MKT) 132,980 555 220 L ABDE
KA2GOJ (+KB3WLI) 43,512 264 148 L ABD
N2HLT (+KB2DMK) 5,016 113 38 L ABCD

3

Delaware

K4CHE 30,636 238 111 S ABCD
KA3WSZ 24,600 202 100 S ABCD
KB3PD 12,950 143 70 S ABCD

Eastern Pennsylvania

WA3HMK 51,170 430 119 S AB
K3IWK 40,018 351 107 S ABD
KB3IB 39,458 228 109 S ABCD9EF
WA3AXV (WB3KRW,ops) 35,282 207 118 S ABCD9EF
N3FUJ 21,063 313 51 S BCD
WA3CSP 16,648 162 104 S A
WA3AQ 13,861 145 83 S ABCD
KB3ZS 6,825 157 35 S BDE
NK3O 4,819 79 61 S AB
KA3AFY 4,015 73 55 S A
K3ARR 2,254 49 46 S A
KA3ZZA 832 52 16 S B
N3KVE 832 52 16 S B
W2EA/3 14,094 174 81 Q AB
K1TR/3 (K1s EA,XX,KA1GD,NR1E,K2AEV,KZ2S,
NJ2L,K3II,KM3T,WN3A,K5ZD,KH6CP,ops) 1,081,200 1910 400 50 M ABCD9EFGHIL
W3CCX (WA1YH0,N2MVT,WB2YEH,K3ESJ,N3s
BBI,CX,ESV,FXA,GSA,ITT,WAs3 AXV,JUF,NUF,
WB3s DNJ,YO,WU3C,WB0SI,ops) 77,714 150 362 M ABCD9EFGHIL
W3EKT (+KH2F,K3X0D,K3CEK,N3CQD) 133,997 560 213 M ABCDE
K3YTL (K3M1Z,K433 EEO,ZHT,KB3e ACZ,QI,
N3IKO,W3D2H,W4As JWP,YON,YYC,WB3s FAA,
FK0,ops) 28,340 918 254 L ABCD
KA3QHA (+KA3STN,N3FJN) 16,275 191 85 L ABD
W3HZU (+WA3USG) 9,894 155 51 L BD
WB3EAF (+KD3SW,N3LPE) 4,800 99 48 L ABD

Maryland-DC

K1RZ 248,688 730 264 S ABCD9E
W3ZZ 193,185 620 243 S ABCD9E
WB2DNE 156,730 549 222 S ABCD9E
K3ZO 143,550 638 225 S AB
K07V 25,857 221 117 S A
W3OTC 21,201 184 111 S ABD
WA4VHF 11,137 100 43 S DEF
W3AZ 10,004 122 82 S AB
K3VRS 6,099 98 57 S ABCD
N3DRX 5,180 120 37 S BD
KA3NTX 4,624 104 34 S BDE
N3JON 3,408 69 48 S ABD
WA3GYW 2,173 53 41 S AB
NQ3Y 1,425 57 25 S AB
W6AXX 1,360 80 17 S B
W3LMC 407 37 11 S B
N3KKR 91 12 7 S ABD
WB3W 1,530 90 17 Q B
KC3LE (W1LBW,K43s WOD,YON,N3s CIK,
EIO,KNL,LTW,ops) 2,226 106 21 L B
WR3E (+NET) 540 45 12 L B

Western Pennsylvania

N3FYD 34,056 214 129 S ABCDE
N13B 4,620 132 35 S B
KA3RWP 4,543 68 59 S ABCD
KC4IUK/3 1,722 82 21 S B
W3KJM 1,645 47 35 S A
WB0IWG 80 10 8 S AB
W2IOG (+K2EQJ) 86,940 403 189 L ABDE

4

Alabama

KA2DRH 153,339 627 237 S ABCD
W4CYC 18,693 201 93 S A
KB4FAI 2,880 80 36 S B
NA4AHJ 2,880 65 44 S A
W4CLO 1,620 45 36 S A
KB4PBM 432 27 16 S B
WA4VUG 312 24 13 S B
KE4BM 846 47 18 Q B
WA4CCG (+WA4ZOF,WF8RDY)
WA4AUX (+KN4QOS) 182,979 740 243 L ABCD
68,853 386 177 L ABD

Georgia

AB4RU 115,584 602 192 S A
WD4IIS 41,470 319 130 S AB
K4AEK 25,606 217 118 S A
WD4AFY 24,038 228 101 S ABCD
N4HSM 20,952 194 108 S A
K6EID 18,900 175 108 S A
KA4KKF 7,210 98 70 S A
W4LNG 810 30 27 S AB
W4AQL (N7FYT,N9HZQ,K0DI,ops) 65,205 390 161 L ABDE

Kentucky

N4EQYT (+KJ4HV,N4OKV,K48s SSB,YTT,N8MFZ,
WB4LC,WB8EEX,WFB2,WF9X) 287,664 816 312 L ABCD
AB4CR (+KN4OL) 93,704 404 212 L ABCD

North Carolina

N4KWX 48,545 335 133 S ABD
K54S 30,128 269 112 S A
W4FSF 26,307 214 111 S ABCD
WJ9B 8,740 109 76 S ABD
N4SM 2,320 58 40 S AB
AA4NC 1,215 45 27 S A
W4DNU 120 24 5 S B
WA4WZP 1,606 73 22 Q B
W4DW (KA3PSK,ABs O2,VJ,WK4N,KA4Cs
THW,WU4Ds EHW,HW,IWT,ZC,K4SO,
KM4s BU,OH,N4s PNO,YTO,W4Ms BPJ,LAE,
NO8T,ops) 105,073 522 179 M ABCDE
N4YN (+WA3KSN,KC4YON,KD4s GEV,GEW,
LNZ,MDK,MDM,N4LBJ,WK4Z) 92,050 510 175 L ABC
92,050 510 175 L ABC

Northern Florida

N4TWX 56,206 343 157 S ABD
W5HUQ 48,140 326 145 S ABD
NU4J 39,606 322 123 S A
KD4FCT 16,928 184 92 S A
W9gWT 11,016 133 81 S ABD
N4ATM 5,952 93 64 S AB
KXGU 1,550 50 31 S A
WB5MAC 1,215 45 27 S A

South Carolina

KM4ID 54,168 355 148 S ABD
W2CUK 27,720 252 110 S A
K6MR/4 23,760 264 90 S A
WA4IVW 130 13 10 S AB
KD4HTX 64 16 4 S B

Southern Florida

WD4MGB 134,407 628 211 S ABD
WB2QLP 102,816 504 204 S AB
K2RT/H4 94,478 487 194 S A
NA4JK 20,905 183 113 S ABD
WB4BK 16,224 171 97 S ABCD
KC4HW 18,600 186 100 S A
W4FNR 16,512 172 96 S A
K4SC 16,490 170 97 S A
N4TL 12,225 163 75 S A
N4ONQ 5,208 82 62 S ABD
WD4AHZ 2,940 81 30 S BD
WA1GUD 1,850 74 25 S B
W1ENZ 225 25 9 S B
WB4OQO (+WB4JEM) 103,031 508 197 L ABD
KK4TZ (+KD4DLA) 22,338 208 102 L ABD

Tennessee

N8JM 166,615 635 235 S ABCD
W2GU 61,250 294 175 S ABCD
N4VC 43,608 271 158 S ABCD
NA4OYS 21,200 166 100 S ABD
AD4F 11,896 136 86 S A
N4MW 5,440 71 64 S ABCD9E
N4ZRW 4,060 66 58 S ABCD
N4MJ 1,575 63 25 S B
KC4YO (+AC4s HG,HH,KM4XW,WA4GBC,
W4EWX,WK8BIEW,WV9P) 333,000 699 333 M ABCD9E
W4FBF (WB2NHC,WB3A,K4JQU,K4AWQC,K4Cs
FSC,GCK,VDB,KD4s LBP,LCD,K4AKB,N4LFX,
WB4PCs,WG4Z,W4/G4GK,ops) 123,205 556 205 L ABDE

Virginia

WB4DBB 132,591 512 229 S ABCD9EI
N4NM 106,398 492 207 S ABD
WB4CTV 73,101 343 177 S ABCD
W8CM 69,344 351 176 S ABD
K4LHB 60,445 322 157 S ABCD
K4NAM 54,249 321 169 S AB
WA4OVM 27,600 220 115 S ABD
K90YD/4 25,333 206 77 S ABCD9E
K4FTO 21,000 190 100 S ABD
W4DC 14,112 144 72 S ABCDE
KE9Y/G 12,740 133 91 S ABD
AA4AZZ 10,368 178 53 S BDE
KM4EM 6,235 108 43 S BD
KC4CATU 4,917 149 33 S B
W4LMJ 4,819 79 61 S A
AC4AC 4,560 76 60 S A
KO4ER 2,352 98 24 S B

Western Pennsylvania

N3FYD 34,056 214 129 S ABCDE
N13B 4,620 132 35 S B
KA3RWP 4,543 68 59 S ABCD
KC4IUK/3 1,722 82 21 S B
W3KJM 1,645 47 35 S A
WB0IWG 80 10 8 S AB
W2IOG (+K2EQJ) 86,940 403 189 L ABDE

4

Alabama

KA2DRH 153,339 627 237 S ABCD
W4CYC 18,693 201 93 S A
KB4FAI 2,880 80 36 S B
NA4AHJ 2,880 65 44 S A
W4CLO 1,620 45 36 S A
KB4PBM 432 27 16 S B
WA4VUG 312 24 13 S B
KE4BM 846 47 18 Q B
WA4CCG (+WA4ZOF,WF8RDY)
WA4AUX (+KN4QOS) 182,979 740 243 L ABCD
68,853 386 177 L ABD

Georgia

AB4RU 115,584 602 192 S A
WD4IIS 41,470 319 130 S AB
K4AEK 25,606 217 118 S A
WD4AFY 24,038 228 101 S ABCD
N4HSM 20,952 194 108 S A
K6EID 18,900 175 108 S A
KA4KKF 7,210 98 70 S A
W4LNG 810 30 27 S AB
W4AQL (N7FYT,N9HZQ,K0DI,ops) 65,205 390 161 L ABDE

Kentucky

N4EQYT (+KJ4HV,N4OKV,K48s SSB,YTT,N8MFZ,
WB4LC,WB8EEX,WFB2,WF9X) 287,664 816 312 L ABCD
AB4CR (+KN4OL) 93,704 404 212 L ABCD

North Carolina

N4KWX 48,545 335 133 S ABD
K54S 30,128 269 112 S A
W4FSF 26,307 214 111 S ABCD
WJ9B 8,740 109 76 S ABD
N4SM 2,320 58 40 S AB
AA4NC 1,215 45 27 S A
W4DNU 120 24 5 S B
WA4WZP 1,606 73 22 Q B
W4DW (KA3PSK,ABs O2,VJ,WK4N,KA4Cs
THW,WU4Ds EHW,HW,IWT,ZC,K4SO,
KM4s BU,OH,N4s PNO,YTO,W4Ms BPJ,LAE,
NO8T,ops) 105,073 522 179 M ABCDE
N4YN (+WA3KSN,KC4YON,KD4s GEV,GEW,
LNZ,MDK,MDM,N4LBJ,WK4Z) 92,050 510 175 L ABC
92,050 510 175 L ABC

Northern Florida

N4TWX 56,206 343 157 S ABD
W5HUQ 48,140 326 145 S ABD
NU4J 39,606 322 123 S A
KD4FCT 16,928 184 92 S A
W9gWT 11,016 133 81 S ABD
N4ATM 5,952 93 64 S AB
KXGU 1,550 50 31 S A
WB5MAC 1,215 45 27 S A

South Carolina

KM4ID 54,168 355 148 S ABD
W2CUK 27,720 252 110 S A
K6MR/4 23,760 264 90 S A
WA4IVW 130 13 10 S AB
KD4HTX 64 16 4 S B

Southern Florida

WD4MGB 134,407 628 211 S ABD
WB2QLP 102,816 504 204 S AB
K2RT/H4 94,478 487 194 S A
NA4JK 20,905 183 113 S ABD
WB4BK 16,224 171 97 S ABCD
KC4HW 18,600 186 100 S A
W4FNR 16,512 172 96 S A
K4SC 16,490 170 97 S A
N4TL 12,225 163 75 S A
N4ONQ 5,208 82 62 S ABD
WD4AHZ 2,940 81 30 S BD
WA1GUD 1,850 74 25 S B
W1ENZ 225 25 9 S B
WB4OQO (+WB4JEM) 103,031 508 197 L ABD
KK4TZ (+KD4DLA) 22,338 208 102 L ABD

Tennessee

N8JM 166,615 635 235 S ABCD
W2GU 61,250 294 175 S ABCD
N4VC 43,608 271 158 S ABCD
NA4OYS 21,200 166 100 S ABD
AD4F 11,896 136 86 S A
N4MW 5,440 71 64 S ABCD9E
N4ZRW 4,060 66 58 S ABCD
N4MJ 1,575 63 25 S B
KC4YO (+AC4s HG,HH,KM4XW,WA4GBC,
W4EWX,WK8BIEW,WV9P) 333,000 699 333 M ABCD9E
W4FBF (WB2NHC,WB3A,K4JQU,K4AWQC,K4Cs
FSC,GCK,VDB,KD4s LBP,LCD,K4AKB,N4LFX,
WB4PCs,WG4Z,W4/G4GK,ops) 123,205 556 205 L ABDE

Virginia

WB4DBB 132,591 512 229 S ABCD9EI
N4NM 106,398 492 207 S ABD
WB4CTV 73,101 343 177 S ABCD
W8CM 69,344 351 176 S ABD
K4LHB 60,445 322 157 S ABCD
K4NAM 54,249 321 169 S AB
WA4OVM 27,600 220 115 S ABD
K90YD/4 25,333 206 77 S ABCD9E
K4FTO 21,000 190 100 S ABD
W4DC 14,112 144 72 S ABCDE
KE9Y/G 12,740 133 91 S ABD
AA4AZZ 10,368 178 53 S BDE
KM4EM 6,235 108 43 S BD
KC4CATU 4,917 149 33 S B
W4LMJ 4,819 79 61 S A
AC4AC 4,560 76 60 S A
KO4ER 2,352 98 24 S B

Western Pennsylvania

N3FYD 34,056 214 129 S ABCDE
N13B 4,620 132 35 S B
KA3RWP 4,543 68 59 S ABCD
KC4IUK/3 1,722 82 21 S B
W3KJM 1,645 47 35 S A
WB0IWG 80 10 8 S AB
W2IOG (+K2EQJ) 86,940 403 189 L ABDE

4

Alabama

KA2DRH 153,339 627 237 S ABCD
W4CYC 18,693 201 93 S A
KB4FAI 2,880 80 36 S B
NA4AHJ 2,880 65 44 S A
W4CLO 1,620 45 36 S A
KB4PBM 432 27 16 S B
WA4VUG 312 24 13 S B
KE4BM 846 47 18 Q B
WA4CCG (+WA4ZOF,WF8RDY)
WA4AUX (+KN4QOS) 182,979 740 243 L ABCD
68,853 386 177 L ABD

Georgia

AB4RU 115,584 602 192 S A
WD4IIS 41,470 319 130 S AB
K4AEK 25,606 217 118 S A
WD4AFY 24,038 228 101 S ABCD
N4HSM 20,952 194 108 S A
K6EID 18,900 175 108 S A
KA4KKF 7,210 98 70 S A
W4LNG 810 30 27 S AB
W4AQL (N7FYT,N9HZQ,K0DI,ops) 65,205 390 161 L ABDE

Kentucky

N4EQYT (+KJ4HV,N4OKV,K48s SSB,YTT,N8MFZ,
WB4LC,WB8EEX,WFB2,WF9X) 287,664 816 312 L ABCD
AB4CR (+KN4OL) 93,704 404 212 L ABCD

North Carolina

N4KWX 48,545 335 133 S ABD
K54S 30,128 269 112 S A
W4FSF 26,307 214 111 S ABCD
WJ9B 8,740 109 76 S ABD
N4SM 2,320 58 40 S AB
AA4NC 1,215 45 27 S A
W4DNU 120 24 5 S B
WA4WZP 1,606 73 22 Q B
W4DW (KA3PSK,ABs O2,VJ,WK4N,KA4Cs
THW,WU4Ds EHW,HW,IWT,ZC,K4SO,
KM4s BU,OH,N4s PNO,YTO,W4Ms BPJ,LAE,
NO8T,ops) 105,073 522 179 M ABCDE
N4YN (+WA3KSN,KC4YON,KD4s GEV,GEW,
LNZ,MDK,MDM,N4LBJ,WK4Z) 92,050 510 175 L ABC
92,050 510 175 L ABC

Northern Florida

N4TWX 56,206 343 157 S ABD
W5HUQ 48,140 326 145 S ABD
NU4J 39,606 322 123 S A
KD4FCT 16,928 184 92 S A
W9gWT 11,016 133 81 S ABD
N4ATM 5,952 93 64 S AB
KXGU 1,550 50 31 S A
WB5MAC 1,215 45 27 S A

South Carolina

KM4ID 54,168 355 148 S ABD
W2CUK 27,720 252 110 S A
K6MR/4 23,760 264 90 S A
WA4IVW 130 13 10 S AB
KD4HTX 64 16 4 S B

Southern Florida

WD4MGB 134,407 628 211 S ABD
WB2QLP 102,816 504 204 S AB
K2RT/H4 94,478 487 194 S A
NA4JK 20,905 183 113 S ABD
WB4BK 16,224 171 97 S ABCD
KC4HW 18,600 186 100 S A
W4FNR 16,512 172 96 S A
K4SC 16,490 170 97 S A
N4TL 12,225 163 75 S A
N4ONQ 5,208 82 62 S ABD
WD4AHZ 2,940 81 30 S BD
WA1GUD 1,850 74 25 S B
W1ENZ 225 25 9 S B
WB4OQO (+WB4JEM) 103,031 508 197 L ABD
KK4TZ (+KD4DLA) 22,338 208 102 L ABD

Tennessee

N8JM 166,615 635 235 S ABCD
W2GU 61,250 294 175 S ABCD
N4VC 43,608 271 158 S ABCD
NA4OYS 21,200 166 100 S ABD
AD4F 11,896 136 86 S A
N4MW 5,440 71 64 S ABCD9E
N4ZRW 4,060 66 58 S ABCD
N4MJ 1,575 63 25 S B
KC4YO (+AC4s HG,HH,KM4XW,WA4GBC,
W4EWX,WK8BIEW,WV9P) 333,000 699 333 M ABCD9E
W4FBF (WB2NHC,WB3A,K4JQU,K4AWQC,K4Cs
FSC,GCK,VDB,KD4s LBP,LCD,K4AKB,N4LFX,
WB4PCs,WG4Z,W4/G4GK,ops) 123,205 556 205 L ABDE

N17T (+N7s ONC QWR) 50,530 305 155 L ABD	N9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Utah WB7QBC 18,360 170 108 S AB KB9ES 11,730 138 95 S AB N7JA 5,460 87 52 S ABD WA7TUX 1,260 39 28 S ABD N7VOW 1,219 46 23 S BD WA7PIB 285 16 15 Q ABD K7HEN (+N7s LPP,XUX,WB7REL,WS0F) 18,720 170 104 M ABD	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Western Washington W7YZ 107,920 457 190 S ABCDEFGIJ W7FI 93,150 450 207 S AB K7DX 82,553 451 183 S A K7VNU 49,248 327 144 S ABCD W7FN 34,263 234 141 S ABCD K7ND 21,696 185 96 S ABD K7TG 16,376 184 89 S AB WB7JUP 15,147 155 81 S ABCD9E KA7HLB 1,842 133 74 S AB KH6JK7 3,939 88 39 S ABCD N7MWV 2,140 84 20 S BD WB7ATP 96 16 6 S B KG7CP 16 2 2 S G N3EG 15,200 170 80 Q ABCD KW7R (+N7FWS) 1,974 70 21 L BD	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Wyoming NSEPA7 48,723 327 149 S AB KB7M 1,344 42 32 S A WA7KYM (+K0GGS) 248,040 912 260 M ABCDCE	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
8 Michigan K8CC 136,116 559 228 S ABD K8MD 56,833 293 161 S ABCD9E WB8TGY 53,040 271 156 S ABCDEF K8BJ 52,020 264 170 S ABCDE K8UB 30,876 230 124 S ABD WB7Z 28,122 192 129 S ABD K8NW 8,052 183 44 S B WA8WPI 5,590 86 65 S A WB8RUQ 4,800 80 60 S A K8BPE 3,672 68 34 S B N8PEH 2,206 69 32 S B K8J 1,380 60 23 S B K8CV 846 47 18 S B WD8JOM 336 24 14 S B WW8WM (+KC8Z,NE8,NE8EF, 234,900 685 261 M ABCD9EF N8HNS (+WB8AFS,MFZ,KF8OL,N8s IMO,JTV, LUG,MUZ,SDV,SVD,SVU,WABTON,WBBET) 81,069 370 183 M ABCDE	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Wisconsin WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Wisconsin WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Wisconsin WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Colorado WB2CRS 162,400 660 232 S ABCDEI AA6TT 90,600 450 200 S A KD0SU 33,976 248 137 S A K0GD 10,455 221 111 S A WB9ENR 8,100 108 75 S A WB9FB 7,811 107 73 S AB N9KV (+N9BZ) WB9JF 180,792 664 243 M ABCD9E WB9OJR 182,792 666 261 M ABCD9E N9MWB 228 19 12 S B WB9ENR 30,960 240 129 L AB N9HAX (+K9F(R)) WB9FB 23,256 202 102 L ABCD	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 884 34 26 L AB, North Dakota NT0W 60,204 318 174 S ABCDEF WB9OAJ 12,502 133 94 S AB KO4LL (+KA0ZL,G,KNA9,WABZOK) 127,912 525 236 L ABCD	Jamaica KB4CRT/Y5 6,042 106 57 S A
Iowa WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	WB9JF WB9OJR WB9GKA WB9FB WB9ENR KA9UVY N9COZ N9MWB K9SM N9EMC N2BJ WB9JGV WB9MXX N9NJS N9JWP N9HET N8MMD AA9D (+AFZ,K9s PW,RO,KA9UY,KF9FF, N9OGU,W9WV,W9B9,EEA,SNR)	59,850 342 175 S AB 46,440 197 135 S ABCDE 35,733 250 129 S ABCD 30,734 191 127 S ABCDE 28,448 206 127 S ABCD 18,616 170 104 S ABD 14,800 144 100 S ABD 9,633 136 57 S BD 8,120 116 70 S AB 7,866 171 46 S B 7,250 99 58 S ABCD9E 7,014 167 42 S B 6,300 100 63 S AB 2,553 69 37 S B 1,400 50 28 S B 1,275 51 25 S B 456 24 19 S AB 694,032 1257 456 M ABCD9EFGHJ N3IPR (+E2DN,AC3I,KA3s UBG,YHB,N3IK, WF3U,WM3L) 32,131 253 127 L AB WJ9H (+NGAFAF) 442 26 17 L BD	Missouri KM0A 63,720 351 177 S ABD W0ZZO 56,248 356 158 S A W0JRP 55,420 316 163 S ABCD W0FY 52,975 311 163 S ABCD WA0KBZ 49,069 348 141 S AB W3HDH/W 36,162 294 123 S A K0TLM (+AJ0E) K4VX/W (+WX3N,K9ZO) 88	