

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

Larry 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. WA1T 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, W0MXY, 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	K1RZ	175,720
Canada	VE5UF	50,299
Central	W8BR/9	98,010
Dakota	W8BWE	91,182
Delta	K5UR	307,784
Great Lakes	*WD8ISK	152,802
Hudson	N2CEI	188,892
Midwest	N0LL	213,597
New England	WA2TEO	270,712
Northwestern	KE7CX	55,860
Pacific	K7ICW	19,153
Rocky Mountain	N5JHV	50,240
Roanoke	K2UOP/4	100,848
Southeastern	WS4F	73,350
Southwestern	WB6FCS	17,756
West Gulf	WD5BKV	223,916

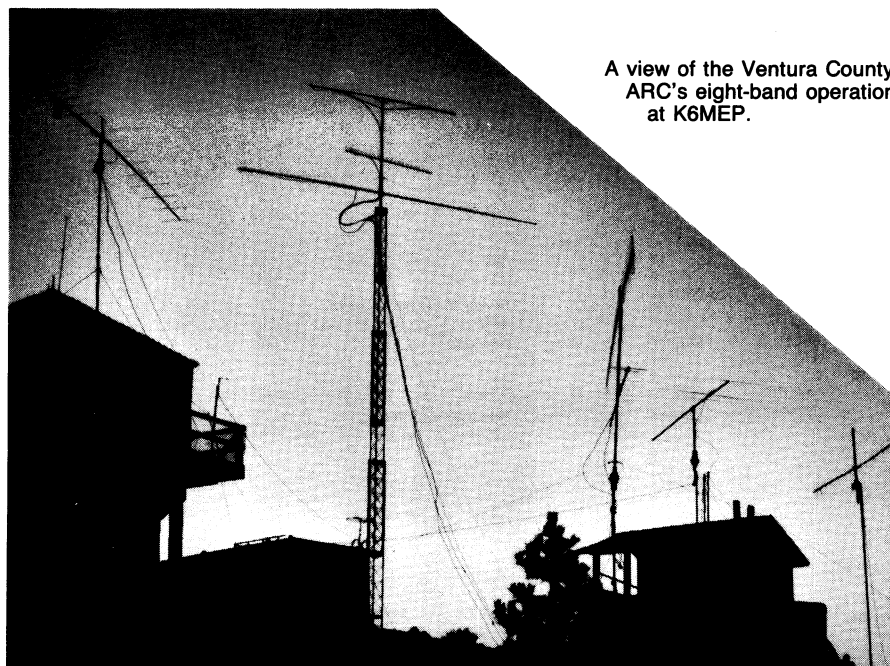
Multioperator

Division	Call	Score
Atlantic	K1TR/3	832,734
Canada	VE3ONT	344,112
Central	W0UC/9	407,008
Dakota	W0OHU	7,735
Delta	KC4YO	143,775
Great Lakes	N4EQT	230,100
Hudson	WD3R	261,360
Midwest	WQ0P	166,278
New England	W2SZ/1	1,240,048
Northwestern	NU7Z	57,596
Pacific	K6AAW	53,390
Rocky Mountain	*N0KV	153,090
Roanoke	WJ8G	228,473
Southeastern	K6MEP	207,358
Southwestern	WQ5S	183,481
West Gulf	WQ5S	183,481

Limited Multioperator

Division	Call	Score
Atlantic	*KZ2S/3	192,050
Canada	*VE3BQN	83,620
Central	*AA9D	345,477
Dakota	*KB0ZQ	210,392
Delta	*W4BFB	101,672
Great Lakes	*W8BNJR	91,948
Hudson	*AB2I	9,800
Midwest	*WB0DRL	468,470
New England	*W1TKZ	133,956
Northwestern	*K7CW	59,649
Pacific	*K6CG	59,200
Rocky Mountain	*W0KEA	150,552
Roanoke	*W4IY	185,571
Southeastern	*W4AQL	24,108
Southwestern	*WA7JTM	58,310
West Gulf	*K5CM	290,928

*denotes new division record



A view of the Ventura County ARC's eight-band operation at K6MEP.

Multioperator QSO Leaders By Band

50 MHz	144 MHz	220 MHz	432 MHz	902 MHz	1296 MHz
W0UC/9 630	K1TR/3 599	W2SZ/1 128	W2SZ/1 266	W2SZ/1 56	W2SZ/1 97
W2SZ/1 578	W2SZ/1 519	N2WK 122	K1TR/3 197	W3CCX 43	K1TR/3 59
K1TR/3 561	W3CCX 455	W3CCX 121	N2WK 176	N2WK 40	W3CCX 58
N0KV 477	N2WK 400	K1TR/3 107	W3CCX 140	K1TR/3 38	N2WK 53
W3CCX 450	WD3R 352	AE6E 103	K3YTL 112	K3YTL 19	WW8M 31
VE3ONT 429	WJ8G 338	K6MEP 100	K6MEP 112	K1WHS 17	K1WHS 29
WQ5S 426	W0UC/9 273	WW8M 62	WD3R 91	WD3R 17	WD3R 28
K1WHS 415	K1WHS 266	WD3R 56	AE6E 89	WW8M 15	K2BWR 25
W2CRS 377	K3YTL 247	WJ8G 56	WW8M 89	K3LNZ/8 14	W3KWH 24
KC4YO 345	VE3ONT 245	K3YTL 51	K1WHS 85	W3KWH 12	K6MEP 24
WQ0P 311	AE6E 237	K3LNZ/8 44	WJ8G 84	WJ8G 9	WQ0P 24
N4EQT 309	WW8M 237	K1WHS 43	K3LNZ/8 78	VE3ONT 9	K3YTL 23
WD3R 288	K6MEP 232	VE3ONT 41	K6AAW 76	N4EQT 6	K6AAW 19
WB5VYE 272	N4EQT 228	K6AAW 38	VE3ONT 74	WQ5S 5	VE3ONT 19
N2WK 262	K6AAW 198		W0UC/9 69	WB5VYE 4	K3LNZ/8 18

Multioperator Multiplier Leaders By Band

50 MHz	144 MHz	220 MHz	432 MHz	902 MHz	1296 MHz
W0UC/9 243	W0UC/9 77	K1TR/3 34	W2SZ/1 45	W3CCX 21	W2SZ/1 22
VE3ONT 192	N4EQT 72	W3CCX 33	K1TR/3 43	K1TR/3 20	K1TR/3 22
K1TR/3 181	WJ8G 72	N2WK 32	WW8M 40	K3YTL 19	W3CCX 22
WQ5S 180	K1TR/3 63	WJ8G 32	K3LNZ/8 39	N2WK 18	N2WK 21
W2SZ/1 172	WW8M 56	WW8M 30	N4EQT 37	W2SZ/1 17	WW8M 19
N0KV 164	K3LNZ/8 56	W2SZ/1 28	N2WK 36	K1WHS 11	WQ0P 19
W2CRS 155	W3CCX 53	WD3R 25	WJ8G 36	W3KWH 11	W3KWH 17
K1WHS 154	W3KWH 52	K3YTL 25	W3CCX 34	WW8M 10	VE3ONT 14
W3CCX 149	VE3ONT 51	N4EQT 23	K3YTL 32	K3LNZ/8 10	K3YTL 13
N4EQT 149	W2SZ/1 50	K3LNZ/8 23	WQ0P 31	WD3R 9	K1WHS 12
WQ0P 147	K9VGE 50	VE3ONT 23	W0UC/9 30	VE3ONT 8	WD3R 11
KC4YO 143	K3YTL 49	K1WHS 20	VE3ONT 30	WJ8G 7	K2BWR 11
KC0OQR 133	WD3R 47	WQ0P 20	W3KWH 27	N4EQT 3	N4EQT 11
K9VGE 128	N2WK 45	K2BWR 19	WD3R 26	NU7Z 3	K6MEP 11
WD3R 118	K6MEP 42	N8HNS 19	WQ5S 25	WQ5S 2	K6AAW 10
	WQ0P 42			WB5VYE 2	

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/0, W2XL and KV0R rounded out the top five in this geographically diverse group.

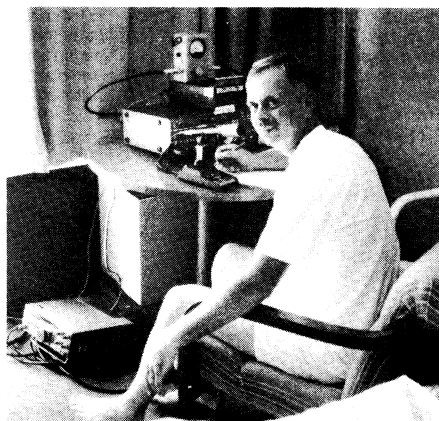
In the Multioperator category, the Mt Greylock group, W2SZ/1, scored another win, with more than 1.2 million points, down slightly from last year. The up-and-coming K1TR/3 group, operating from Eastern Pennsylvania, mounted a bigger effort this year and narrowed the gap between first and second with their 832k points. W3CCX followed with an excellent 648k effort from a location close to K1TR/3. N2WK was fourth with 476k and the W0UC/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 WB0DRL 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, WA0TKJ, 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.

Single Operator QSO Leaders By Band

50 MHz	144 MHz	220 MHz	432 MHz	902 MHz	1296 MHz
NØLL 480	WA2TEO 282	N2CEI 62	K1FO 155	WA2TEO 22	WA4VHF 51
KM5X 459	KA1ZE 273	WA2TEO 61	KA1ZE 112	N2CEI 22	N2GHR 44
N5UD 401	WB2QOQ 255	KA1ZE 61	WA2TEO 104	KA1ZE 21	K2SMN 41
WD5K 354	WA3FFC 221	K5UR 55	K5UR 97	N2GHR 18	KA1ZE 40
NØFFO 353	WG8Q 207	W2XG 52	N2GHR 93	K2SMN 17	K5UR 38
K5UR 352	K5UR 204	K1RZ 44	W2HRW 85	WA3FFC 16	WD5BKV 37
WB5YWI 333	K1RZ 203	K2AN 42	K1RZ 84	N2BFJ 15	W3IP 36
WA2TEO 319	K2SMN 200	W3IP 37	N2CEI 74	WA2ONK 13	K2LME 34
W1GCI 303	N2CEI 195	W3ZZ 37	K2SMN 73	W3IP 13	WA2TEO 33
N5HHS 301	K5MA/1 185	WD8ISK 37	WA8EUU 72	K2UOP/4 13	N2CEI 31
N8UM 300	KF8AU 176	W1GCI 34	W3ZZ 70	N1DPM 11	K1RZ 31
WAØCSL 295	W3ZZ 161	WD5BKV 33	W2XG 66	N4HB 11	WA3FFC 26
K1DAT 288	AA8Q 159	WA2BAH 32	WA3FFC 66	K2AN 10	K1FO 25
K1ISJ 283	W3IP 158	WB2ELB 32	N4HB 64	WD8ISK 10	N2BFJ 24
N5JHV 283	W9JGV 155	WA1HYN 31	WD5BKV 63	WA8EUU 9	W5UGO 24
	VE3BGH 155	N2BFJ 31			
		WA3FFC 31			
		KE8FD 31			

Single Operator Multiplier Leaders By Band

50 MHz	144 MHz	220 MHz	432 MHz	902 MHz	1296 MHz
NØLL 192	KF8AU 59	K5UR 30	K5UR 42	WA2TEO 13	WD5BKV 28
KM5X 183	K5UR 57	WD5BKV 29	WD5BKV 42	N2CEI 13	K5UR 22
VESUF 179	KU8U 56	WD8ISK 26	WB9QJR 35	WA3FFC 12	WA4VHF 21
K5UR 165	WA3FFC 54	N2CEI 25	K1FO 32	K2SMN 11	W3IP 18
WD5K 164	WG8Q 54	K1RZ 25	WA3FFC 32	KA1ZE 10	W5UGO 18
N5UD 161	AA8Q 54	KA1ZE 24	K1RZ 31	N2BFJ 8	KBØHH 17
WB5YWI 156	WD5BKV 50	KE8FD 22	WA8EUU 31	N2GHR 8	N2GHR 16
WD5BKV 155	K1RZ 49	WA2TEO 21	KBØHH 31	WA2ONK 8	K2SMN 16
WAØCSL 154	KAØGGI 49	W3IP 21	KA1ZE 30	W3IP 8	K1RZ 16
NØFFO 150	VE3FGU 49	NØLL 21	WD8ISK 30	K2UOP/4 8	WA3FFC 16
NTØV 150	WB9QJR 48	W3ZZ 20	N2GHR 29	N4HB 8	WD8ISK 16
W1GCI 142	W9JGV 47	WA3FFC 20	N2CEI 28	WA8EUU 8	NØLL 15
N5JHV 142	WF9M 46	W1GCI 17	W5UGO 28	N1DPM 7	K2LME 14
WA8FTA/9 140	WA2TEO 44	WB2ELB 17	WA2TEO 27	K2AN 7	N2CEI 14
WA7KHO 139	WA9LWJ 44	N2BFJ 16	K2SMN 27	WD8ISK 7	K5SW 14
		K2SMN 16	K4QIF 27		
		K2UOP/4 16	KE8FD 27		
		N4HB 16			

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 tower-mounted 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 meters, 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 country (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 6 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

our score from last year and learned a few lessons we'll apply next year (W12T). 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 (K2ZS). 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 (W1JA). 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*! 6 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_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

Top Rover Scores

Call	Score
WAØTKJ	263,725
KJ4BF	58,891
KBØCY (+WA6TTY)	55,510
WØMXY	49,856
KD2YB (+WD4RDZ)	38,610

WA1ZYX (KA1s MTM,QFA,N1BAC,WK1P,ops)
4,524 155 26 L BCD

Rhode Island

WA1GYL 13,585 199 65 S ABD
WA1HYN 12,561 163 53 S BCD
A1HK 3,750 150 25 S B
WK1CS 1,305 87 15 S B
K1RL 301 43 7 S B
K1FVG 8,835 144 57 Q ABD
W1OP (K1DS,K21K,N1s AJO,XA,W1EYH,ops)
22,865 210 85 M ABCD9E
W1AQ (K1s AGA,GBU,K1YMQ,KM1X,N11BC,
N1OU,ops) 37,169 312 109 L ABD

Vermont

K1LPS 24,090 192 112 S ABCD
WE1P 5,452 94 58 S A
N1DIQ 4,800 80 60 S A
K1VLH 4,452 84 53 S A
W1EXZ 2,990 65 46 S A
N1GPY 2,478 59 42 S A
K1BSZ 126 18 7 S B
W1TKZ (KA1s DHV,NOL,KC1US,N1s CPE,FXG,
GMS,HXO,IBG,NT1s L,M,NY1J,WN1N,W01G,
WA2TIF,ops) 133,956 603 183 L ABCD

Western Massachusetts

W1GCI 155,232 550 224 S ABCD9EF
N1DFM 90,112 371 176 S ABCD9EF
NA1W 5,536 109 32 S BCD9E
N1FUS 1,840 104 16 S BD
WM2Y1 1,104 45 16 S ABCD
WA1WRM 798 42 19 S ABD
K1UG 350 25 14 S B
N1DJB 34,424 260 104 Q ABCDE
WB2USJ 1,748 67 19 Q ABCD
KR1R 350 50 7 Q B
W2SZ1 (K1s DH,NKR,KA1s FZY,JFW,PRT,UTU,
WA1s UGE,ZMS,K2TR,KA2s WVN,WRG,KE2TP,
N2s BNY,CJJ,DU,GXH,HPA,HUC,IKZ,WA2s AAU,
SCA,SPL,WB2s JSJ,KMY,WFB2B,WM2Y,WS2B,
KD3NC,WG3J,AK4L,N4FFD,G7FRE,ops)
1,240,048 1857 388 M ABCD9EFGHJ
NQ1C (+NM1K)
30,115 276 95 L ABCD

2

Eastern New York

WA2BAH 44,080 313 116 S ABCD
WB2VVO 10,857 141 77 S A
WA2UYL 7,684 113 68 S AB
WB2WHD 6,528 161 32 S BCD
WA2FUZ 4,648 83 56 S A
K2CT (KA2TFM,op)
1,840 85 16 S ABCD
KB2HPW 1,652 48 28 S ABC
W2VDI 1,274 46 26 S ABC
K2GHI 1,235 65 19 S B
WB2ECL 1,183 81 13 S AB
WY2H 638 49 11 S BD
WB2OEE 611 47 13 S B
KA2MCU 366 26 12 S ABCD
K2XA 243 27 9 S B
N2JBI 200 40 5 S B
KA2AUQ 138 23 6 S B
N2LPW 77 11 7 S B
WA2OVV 44 11 4 S AB
W2AFME 28 7 4 S AB
K2FTX 24 6 4 S A
WD2AJS 16 8 2 S B
WB2LYC 8 3 2 S BC
W2XM 1 1 1 S B
WB2DST 8,874 106 58 Q ABCDE
KT2B 6,042 90 38 Q BCD9E
WB2KVO 120 10 6 Q C
N2XQ (+KA2AYR,K2B2LE,KT2K,N2s
AAM,CZL,DXP,FHC,KGC,NJ2,Y2DDMM,WA2CRF)
66,555 368 145 M ABCD9E
AB2I (+AB2J,W2AWX,WN2Y)
9,800 135 50 L BDE
WD2V (+N2s HWV,BJH,WA2s KPF,ZNU,WB2EQO)
684 34 18 L ABD

NYC-Long Island

N2BFJ 80,960 346 160 S ABCD9E
N2GHR 83,504 350 112 S ABD9E
WA2SLY 7,656 132 58 S AB
K2KM 7,497 120 51 S ABD
WA2EIO 4,350 87 30 S BDE
WB2AMU 2,132 52 41 S A

Northern New Jersey

N2CEI 188,892 610 212 S ABCD9EFG
AA2U 24,645 215 93 S ABCD
N2CKH 21,238 206 82 S ABCD
WB2OOQ 8,925 255 35 S B
WA2UDT 6,916 107 52 S ABCD
K4BNC 4,356 79 44 S ABD
KA2IVS 2,300 100 23 S B
WA2LTM 252 9 7 S F
W2PHW 102 17 6 S B
KE2SO 1,265 55 23 Q AB
WD3R (KA1LHZ,K2BJG,X2O,N2s AAZ,EVV,HMM,
WN,QN2,K3AGD,ops)
261,360 837 240 M ABCD9EFI

Southern New Jersey

K2SMN 138,798 496 198 S ABCD9E
W2HRW 41,900 334 100 S ABD
W2EIF 14,976 141 78 S ABCD9E
K2YY 12,127 140 67 S ABCDE
WB2OYC 11,448 143 72 S ABD
WA2AJX 4,050 81 50 S A
K2BONK 1,998 48 27 S B9
K2BWR (+K2ZRU)
52,003 252 133 M ABCDEF
K2AA (W2s ORA,PAU,ops)
17,892 195 84 L ABD

Western New York

WB2ELB 65,800 314 160 S ABCDEI
K2AN 63,784 315 134 S ABCD9E

N2IOU 23,144 186 88 S ABDE
W2XG 8,625 257 23 S ABCD
N2ZN 4,674 102 41 S ABD
KE2GD 4,116 147 28 S B
W2UAD 2,852 92 31 S B
W2WGL 2,345 51 35 S BD
N2DM 1,178 38 31 S A
WA2ROW 441 49 9 S B
KB2HSH 1 1 1 S B
W2XL 17,784 160 78 Q ABCDE
N2WK (+K1JUL,K2s OEQ,OS,KA2s AAP,HSK,
KB2SE,KE2W,N2DKP,W2HPF,WA2s LAQ,MOP,
TMC,WB2OCJ,KD5RO)
476,857 1083 261 M ABCD9EFGHI
WA2AAZ (KB2LEP,KE2RP,N2s CMA,COJ,MKR,
MKT,MLF,WA2SOK,WB2JSB,ops)
9,204 150 59 L ABD
WR2Y (+KE2UR)
3,876 102 38 L AB
N2HLT (+KB2DMK)
1,628 72 22 L BD

3

Delaware

N3FWJ 4,704 147 32 S B

Eastern Pennsylvania

K2XJ 4,365 76 45 S ABD
WB3LJZ 3,000 77 30 S ABD9
WA3CSP 1,872 48 39 S A
WA2FGK (K2LNS,op)
48 4 3 S G
W2EA 9,420 157 60 Q AB
K1TR3 (+K1EA,K1GD,NR1E,N2NT,N2L,W2GD,
K3II,KM3T,K5ZD,KH6CP)
832,734 1597 378 M ABCD9EFGHJ
W3CCX (WA1YHO,N2LV,WB2YEH,K3s EEO,ESJ,
KD3V1,N3s BBI,CX,EVV,EXA,ITT,WA3s AXV,JUF,
NUF,YUE,WB3JO,WB3RJ,ops)
648,846 1313 339 M ABCD9EFGHJ
K3YTL (WA1MKE,NA2T,WA2GBC,KA3s EEO,
UXW,KB3QI,W3DZH,WA3s YON,YYC,WB3s FAA,
KGF,FYT,IWZ,ops)
248,239 715 251 M ABCD9EFG
W3HZU (+ops)
27,027 258 91 L ABCD
N3ADC (+KA2RRK,KA3YUA)
18,285 208 69 L ABCD
AC3I (KE2DN,KA3s UBG,WSY,YHB,KC3OY,N3s
IHK,IPR,W3GF,WM3L,ops)
15,890 227 70 L AB
K3UZY (+N3AHF)
7,452 162 46 L B
N3HHG (+ops)
312 24 13 L AB

Maryland-DC

K1RZ 175,720 574 230 S ABCDE
W3IP 128,115 448 195 S ABCD9EFI
W3ZZ 110,517 452 187 S ABCDE
K3ZO 27,280 248 110 S AB
K3AKR 25,745 222 95 S ABCD
W3AZ 7,980 114 70 S AB
KA3VLG 7,865 121 55 S ABC
KA3NTX 3,584 90 32 S BD
WA4VHF 3,213 51 21 S E
K3YDX 1,278 71 18 S B
WA3GYW 860 33 20 S AB
W6AXX 645 43 15 S B
N3OY 348 12 8 S B
K3DSW 190 19 10 S B
W12T (+KA3QPG,N3JYL,W3EKT,WB3JRU)
12,375 162 55 M ABCDEI

Western Pennsylvania

WA3FFC 169,404 538 228 S ABCD9EF
NW3C 38,920 278 140 S AB
N3FYD 38,608 247 127 S ABCD
K3EAV 4,437 71 51 S ABDE
KCAIUK 473 43 11 Q B
W3KWH (KA3KSD,N3EQP,W3SVJ,WA3TTS,
WB3EML,ops)
121,589 436 199 M ABCD9EFGHI
K2ZS3 (+KA2AEV,KA3JUN,N4HY,N24K,
WB3KX)
192,050 681 230 L ABCD
N3FJN (+KA3STN)
4,500 87 45 L ABD

4

Alabama

WB4AXQ 61,823 329 167 S ABDE
KA2DRH 50,132 332 151 S AB
WB8RDY 14,018 163 86 S AB
KB4OOW 4,399 81 53 S ABD
N4VC 3,772 69 46 S ABD
WA4FCM 3,120 65 48 S AB
KB4FAI 2,175 75 29 S B
WA4VUG 24 8 3 S B
KE4BM 480 32 15 Q B
N5AYD (+KK4PF)
4,872 79 56 L ABCD

Georgia

W54F 73,350 370 163 S ABCD9EF
AB4RU 14,000 175 80 S A
NA4I 11,745 131 81 S ABCD
K4CKS 11,011 143 77 S A
WD4AFY 7,035 98 67 S ABD
W1JA 5,376 96 56 S A
W4VHH 4,114 67 34 S BDEF
K4KAZ 3,600 75 48 S A
W4AQL (KC4ZUB,WD4DWN,N7FYT,N9HZQ,K0DI,
ops) 24,108 235 98 L ABD

Kentucky

AB4CR 16,224 160 96 S ABD
KC4EG 9,315 100 69 S ABCDE
KN4OL 1,050 50 21 S B
N4EQT (+K4VH,N4TY,K4s SSB,YYT,K8KMG,
NBMFZ,W8ULC,W8ZJ)
230,100 649 295 M ABCD9E

North Carolina

N4DT 41,654 255 118 S ABCDEFI
WA1EHL 33,235 219 115 S ABCDE
KJ4SO 28,928 214 113 S ABDE

W4FSO 19,008 163 96 S ABD9
KS4S 12,375 165 75 S A
K16MS 2,948 67 44 S A
N4YZJ 2,125 67 25 S BCDE
WA4WZP 784 49 16 Q B
N4HSM (+W6JKV)
19,393 213 91 L A
W4DW (KA3PSK,KA4SAN,KB4VYP,KC4s GFR,
THW,KN4AQ,WA4LHE,WD4VYM,K9P,M,N0BT,
ops) 16,716 198 84 L ABD
WB4KPD (+KC4YLE)
2,070 69 30 L AB

Northern Florida

N4QEK 18,090 185 90 S ABD
WB4JEM 17,672 170 94 S ABDE
W4WHK 14,960 170 88 S A
N4TWX 12,874 147 82 S ABD
WA4JNE 9,570 136 66 S ABD
WD4FAB 5,151 75 51 S ABDE
N4CVY 4,888 94 52 S A
NRZFH 2,050 50 41 S A

South Carolina

KK4NO 68,392 356 166 S ABDE
N1BOY4 70 10 7 S A

Southern Florida

WD4MGB 26,378 232 109 S ABD
K4KCF 9,610 139 62 S ABD
WB2QLP 9,585 135 71 S AB
WB4BKC 6,615 116 49 S ABCD
W4CO 4,080 102 40 S A
W4FNR 2,652 78 34 S A
WD4AHZ 1,738 59 22 S BD
N4TL 1,392 48 29 S A
WM2C (+N2AWM,WS4E)
726 33 22 L AB

Tennessee

N8UM 80,017 457 161 S ABD
WB4JG 56,980 345 148 S ABD
N54W 14,950 173 65 S BCD
N4MW 14,196 121 91 S ABCD9E
K4RWP 12,528 144 87 S A
AD4F 9,198 126 73 S A
KC4BWG 8,896 139 64 S A
KA4AHU 735 35 21 S A
WA4UC 545,735,735 35 21 S A
KA4YO (+K4XJ,KM4XW,N4s RJY,TCF,
WA4GBE,WB4DAJ,WD4EWX)
143,775 546 225 M ABCD9E
W4BFB (+ops)
101,672 488 179 L ABCD
N4RFV (+KA4OAK,KB4VRE,KC4s MFB,RQU,
RRD,W4TZG)
18,088 238 76 L AB

Virginia

K2UOP4 100,848 407 176 S ABCD9EF
N4HB 90,630 386 171 S ABCD9E
KB4OLM 42,746 295 134 S ABCD
WB4CTW 38,316 265 124 S ABCD
W4DO 20,825 182 85 S ABCDE
W4DR 20,196 198 102 S A
K4QIF 17,219 173 67 S BDE
KC4AUF 17,204 196 68 S ABD
KAFTO 15,522 177 78 S ABD
WA4SOVW 12,236 152 76 S ABD
WA4BVC 10,168 110 62 S ABCD
WB4BYV 6,380 112 44 S BDE
K9OYD4 6,248 86 44 S BDE
K4VAF 4,824 136 34 S B
AB4SF 3,564 82 36 S BD
WB5WRY 3,200 100 32 S B
N4MM 1,860 60 31 S AB
AC4AC 1,462 43 34 S A
W4MZF 1,064 48 19 S BD
N4BG 629 37 17 S B
KM4MP 29,370 236 89 Q ABCDE
W4IY (K4HWG,KA4s CKI,RRU,WB4s NFS,RDV,
K8RI,ops) 185,571 641 237 L ABCD
KB4NT (+KA3VFT,AB4L,KA4VHR,KC4s CTS,
UWT,WIC,K4CY,K4J4s Y,QQ,N4ZHN,WA4LPR,
WB4YJC) 65,130 341 167 L ABD
WF4U (+K3SS)
720 48 15 L B

5

Arkansas

K5UR 307,784 746 316 S ABCDE
WB5IGF 91,605 407 197 S ABDE

Louisiana

N7JJS/5 36,448 268 136 S AB
WSFYZ 10,164 132 77 S AB
K5SLIU 9,176 124 74 S A
K5TNP 1,586 61 26 S B
KA5ULI (+N5KWB)
37,050 262 130 L ABCD

Mississippi

WD5CCA 14,774 161 89 S ABCD
WN2E 7,198 122 59 S A
N5JYX 4,984 75 56 S ABD
N5KDA (+N5JBZ)
19,500 195 100 L AB

New Mexico

N5JHV 50,240 309 160 S ABD
KN5S 9,324 120 74 S ABD
K5MAT 7,816 107 64 S ABCD
W5IXR 3,216 99 48 S ABCD
KN5F 5,278 91 58 Q AB

North Texas

KM5X 139,464 557 234 S ABCD
N5UD 74,848 434 172 S AB
W5DK 58,056 354 164 S A
AA5C 43,361 228 131 S ABCD9EFGHI
K9MK 38,750 266 125 S ABD9E
KF5PE 1,028 33 18 S BE
WQ5S (+AA5AM,KY5N)
183,481 609 251 M ABCD9EFG

AA5IB (+N5DZS,WA5ZBT)

103,376 436 208 L ABCD

Oklahoma

WD58KV 223,916 545 308 S ABCDEF
WB5YWI 98,262 438 206 S ABD
W5UGO 32,508 171 126 S ABDE
K5SW 21,582 155 99 S ABDE
K5CM (+WM4Z,KBSPLX,N5s CG,KW,W8RRY)
290,928 852 319 L ABCD

South Texas

KB5UIA 55,332 325 159 S ABD
N5HHS 39,130 301 130 S A
W5OZI 26,691 217 123 S AB
WD5ERG 4,428 77 54 S ABDE
K5GFP 1,989 47 39 S ABD
N5KZP 1,562 71 22 S B
N5LFH 1,071 51 21 S B
WB5VYE (+K5BYS,WA5ZKO)
71,996 372 164 M ABCD9E
KA5TJI (+KB5HAB)
21,945 184 105 L ABD
KG5ND (+KB5FIO)
7,623 109 63 L ABD

West Texas

W5AL 49,588 258 161 S ABCDE
NV1Q 1,530 51 30 S A

6

East Bay

NR6E 2,414 69 34 S ABD
W6LHD 2,310 77 30 S B
WB6LRV (+KC6SSN,WB6PFJ)
17,980 238 58 L ABCD

Los Angeles

WA6BIL 4,865 115 35 S ABCD
WA6RAY 2,214 68 27 S ABD
K6HLL 851 37 23 S B
K17F6 780 60 13 S B
AE6E (+AD6C,AF6O,N6s DX,M)
118,150 630 139 M ABCDE

Orange

WB6FCS 17,756 162 92 S ABCD
K6IBY 15,688 161 74 S ABCD
N6NJI 4,437 78 51 S ABCD
K6FF 3,072 128 24 S B
W6XD 570 38 15 S AB
W6HCC 252 9 7 S I
W6SX 30 10 3 S B
WA6FIT 1,950 67 25 Q ABD

Pacific

KH6HME 375 59 5 S ABD
KH6B 3 3 1 S B

Santa Barbara

WB6AAQ 10,092 147 58 S ABDE
KC6TJV 12 4 3 S B
K6MEP (+WB2ODH,N6s LHZ,QA,RMJ,N56X,
WA6s DJS,EJO,JOX)
207,358 699 199 M ABCD9EIL
N6ENU (+N6HBI,WA6PFI)
53,856 333 132 M ABDE

Santa Clara Valley

N6RV 3,100 87 31 S ABCD
WD6EPV 2,885 95 23 S BCD
WA6HRK 624 48 13 S AB
N6I 319 29 11 S B
WB2UQT 45 9 5 S A
KN4DG 1,298 46 22 Q ABCD
K16CG (+NU6S)
59,200 457 100 L ABCD
W6AMT (KB6OWN,WB6s ASR,RAL,W6BE,ops)
25,665 239 87 L ABDE
K3QM (+KA3ETI)
7,785 149 45 L ABD
AA6PA (+KD6LL,N6EXQ)
2,686 66 31 L BDE
WA6OYS (+WB6YQN)
2,516 67 34 L ABCD

San Diego

WA5BNH 2,322 64 27 S BCD
W6OYJ 1,679 57 23 S BCDI
K6QM 1,445 85 17 S B
W6PFE 462 36 11 S ABCD
KB6MEG 8,575 131 49 Q ABCD
WB6DTA (+K6DYD)
13,288 144 88 L ABD

San Francisco

N6OLD 3,483 74 27 S BDEI
WA6KLK 1,008 25 18 S DE
WN6W 352 32 11 S A

San Joaquin Valley

WB6YIY 10,146 139 57 S ABCD
WB4AYE 7,968 127 48 S ABCD
W6DPD 520 22 20 S ABCD

Sacramento Valley

WA6IKE 17,384 176 82 S ABCDE
N6KXB 2,240 80 28 S B
KA6AW (+N6EGN,WB6s HBU,JEX,WB6FJE,
KA7DGL)
53,390 410 95 M ABCDE

7

Arizona

N7FJM 1,700 44 34 S ABD
W7GZ (+KB7CI)
32,750 223 131 M ABCDEJ
WA7JTM (N7AMA,WW7B,ops)
58,310 338 170 L ABD
WA7KLE (+KA7TEZ,WA7KPH,DL2UF)
5,494 82 67 L AB

Eastern Washington

N7JGO 8,584 107 74 S ABD

W7IDZ 3,315 65 51 S A
W7PQE 2,535 65 39 S A
W7FHI 1,484 53 28 S B
W7KQU 1,232 44 28 S A

Idaho
W7ID 13,764 125 93 S ABDE
KD7YI 7,383 98 69 S ABD
KF7CO 54 45 S AB
W7ZRC 1,920 45 30 S BDE
WA0DYU (+KB7FUV,KC7LJ) 27,875 223 125 L AB

Montana
WA7KHO 42,771 265 159 S ABD
W7HAA 28,067 221 127 S AB
AA7BG 1,748 46 38 S A
WA7PDC 238 17 14 S A

Nevada
K7ICW 19,153 164 107 S ABD
K7JUV 1,127 41 23 S ABD
NW7O (+WB5RQY,KB7IRF,W7TVF) 11,165 127 77 M ABDEI
WA7JUU (+N5TX) 2,736 67 38 L ABD
NF7P (+N5PLF) 1,281 61 21 L B

Oregon
KE7CX 55,860 308 147 S ABCD9E
W7JXU 26,857 216 107 S ABCDE
WA5RMX 12,768 135 57 S ABCD9EFGHLM
WA7TDU 7,434 95 63 S ABDE
K67VF 2,080 80 26 S B
K7H5J 1,025 37 25 S ABCDE
W7VOK 182 20 7 S ABCD
K7CW (+WA7UQV) 59,649 321 177 L ABDE
WA7TDZ (+AA6TT,N80X) 53,630 322 155 L ABDI
NI7T (+KH6WZ,KB7JWM,N7S ONC,QWR, W8JFR) 39,712 250 146 L ABCD
WA7IOH (+KE7IK,N70BQ) 1,550 50 25 L ABCD

Utah
KE7NS 7,070 94 70 S ABD
WA4GPM 5,525 76 65 S ABD
W7VXW 2,419 54 41 S ABD
N7TA 1,767 48 31 S ABD
WA7PXD (+WB7VLJ) 4,860 77 54 L ABDE

Western Washington
W7FN 26,091 211 117 S ABD
W7FI 23,793 231 103 S AB
WB7UUP 8,235 126 45 S ABCD9E
KA7HLB 2,912 91 32 S AB
NU7Z (+K7ND) 57,596 375 119 M ABCD9EF
K7SS (+AA7FT,W7AWA) 25,668 276 93 L AB

Wyoming
WA7KYM (+KD8GS,W8KYJ,SII) 123,384 521 212 L ABDE

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Michigan
KB8J 47,728 269 152 S ABCD
KU8U 43,615 272 143 S ABD
K8MD 37,592 241 127 S ABCD9E
N8LMT 34,968 282 124 S AB
N8JTB 17,838 168 106 S AB
WA8EUU 12,168 102 52 S D9E
WB8Q 11,178 207 54 S B
WB8TGY 5,148 101 44 S BCF
WB8GOM 4,332 114 38 S B
WA8WPI 3,726 69 54 S A
AC8W 2,210 65 34 S B
WB8AA 936 39 24 S B
WW8M (+KB8QV,KC8Z,N8S ERM,NQS,OBT, NE8I,WA8VPD) 225,000 654 250 M ABCD9EF
N8HNS (+KC40XG,KB8S KCB,MFZ,N8S IMO, JTV,LUG,MUZ,WA8TON,W8EET) 50,544 277 144 M ABCDE
KU8Y (+KA8TBW,N88A) 60,261 328 159 L ABCD
N8MKH (+N8OMN) 10,010 130 77 L AB
N8KWX (+WK8L) 1,275 51 25 L B

Ohio
WB8ISK 152,802 489 234 S ABCD9EFGI
KE8FD 62,156 306 164 S ABCD
N8AXA 14,507 138 69 S ABCD
A8CO 8,586 159 54 S B
WB8Q 5,655 145 39 S B
N8CCC 5,459 94 53 S ABCD
WB8DCX 4,268 83 44 S ABD
WB8OD 3,395 97 35 S B
WA8SVV 3,300 75 44 S AB
KB8JYH 2,208 69 32 S B
WB8LV 1,560 52 30 S B
WB8JAY 1,368 48 24 S BD
WB8BG 1,300 48 25 S BD
WA8RCN 1,260 45 28 S A
WB8XT 1,200 46 24 S ABCD
KB8FR 946 43 22 S B
WA8NPX 680 34 20 S B
K8WW 549 21 13 S D
K3ZAP 369 33 9 S ABCD
KB8PQC 286 22 13 Q B
WA8NJR (+KB8HLL) 91,948 408 181 L ABCD
KE9I (+KA9ZFG,N9QX,W8DILL,W8M9M) 37,373 246 133 L ABCD

West Virginia
W8TN 14,444 146 92 S ABD
K2PQI 1,050 42 25 S B
WB8K 5,830 100 55 Q ABD

W8FK 525 25 21 Q A
WJ8G (+KA8s ZKL,ZXP,KB8s EUN,KDS,KVBS, N8s GGU,HON,KYV,KYW,LON,MYT,W8BIBN) 228,473 711 257 M ABCD9E
K3LNZ8 (K3s DUA,ICH,WA3s EOO,NZL,OYW, K4LHB,W4PSJ,ops) 183,840 580 240 M ABCD9E
N8FWL (+WF1G,AA8BC,KB8s OTX,ECC,GDU, GGG,KF8LR,N8s KUR,MRD,NHA,NMR,OMV, WB8CNC,W8DQNJ,WU8Q) 32,922 241 118 L ABCD

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Illinois
WA8FTA/9 36,820 263 140 S A
WA8GCB 27,306 208 111 S ABD
WB8QJR 23,028 152 101 S ABCDE
WD9FBL 21,518 159 106 S ABCDE
N8BJG 13,580 131 97 S ABD
NC9F 11,016 130 72 S ABCD
KA9RQC 9,516 107 78 S ABD
W9JGV 7,285 156 47 S B
W9VA 5,500 100 55 S AB
WB8GKA 4,266 73 54 S ABD
N9AQ 2,664 72 37 S AB
K9LOR 1,064 28 19 S D
WB9MXX 77 11 S B
AA9D (+K9s PW,RO,KA9s CKI,JYI,KB9FFK, N8EDT,W9WI,WB9s EEA,SNR) 345,477 774 361 L ABDE

Indiana
WA8R/9 98,010 387 198 S ABCD9E
KC4KK/9 26,574 206 129 S AB
WB8YFE 25,400 184 127 S ABD
WD9ENR 10,956 116 83 S ABCD
WF9M 8,001 127 63 S AB
W9CSF (K9s DZE,ET,URA,KA9PGC,KB9s FES, FET,NA9N,NY9B,WB9YHH,W9s BDW,EIX,ops) 75,504 366 176 M ABCDE
W9YB (KA9s CGN,CCR,KC9RG,ops) 12,312 130 81 L ABCD

Wisconsin
WA8LWJ 63,162 348 174 S ABD
K9GSH 15,834 164 91 S ABD
WA8KVS 13,195 148 91 S AB
WA8LZM 12,103 139 91 S A
NSCO 3,636 101 36 S B
WD9EGE 2,686 44 34 S BDE
WA1UJW/9 1,404 52 27 S B
W5ONL/9 1,392 48 29 S AB
AA9AO 1,176 35 28 S ABD
N9GNQ 816 51 16 S B
WA8OKB 800 32 25 S AB
W9YCV 264 12 11 S D
N9CJ2 7,452 108 54 Q BD
WB8J/9 (+KA9FOX,WB8QNC,K9FVF,N8s AKC, BSH) 407,008 997 368 M ABCD9EF
K9VGE (N9Ks,W9FX,W9SE,ops) 102,555 412 215 M ABCDE
WJ9H (+KA9JPZ) 420 21 20 L B

0

Colorado
K7YNU 21,658 176 119 S ABD
N8ZA 19,380 190 102 S AB
W8ETT 9,920 108 80 S ABD
KD8SU 3,774 74 51 S A
KD8GD 3,650 73 50 S A
WB8Z 1,120 40 28 S A
KB8NN 1,020 34 30 S B
K9CS 420 30 14 S B
WA7NWP 15 5 3 S B
N8KV (+WA1JHK,N8BZ) 153,090 638 210 M ABCD9EFI
W2CRS (+KA8KAN) 109,011 483 203 M ABCDEFI
W8KEA (+W1XE,WB5JAR,N8s BRI,DVL) 150,552 583 246 L ABDE
WB8ITG (+WA8EDW) 16,900 165 100 L ABD
N8HAX (+KF8KR) 4,880 87 40 L BCD
WB8A (KA8DXM,N8FZB,W8JF,OZ1JW,ops) 4,879 101 41 L ABCD

Iowa
N8CIH 26,100 190 116 S ABCD9E
WB8COO 22,458 197 114 S A
KF8AU 10,384 176 59 S B
WD8FOY 8,892 106 78 S ABD
KD8ZY 6,555 95 69 S AB
K8JQA 1,830 61 30 S B
KD8BT 816 36 17 S BD
W8RAP 75 5 S E
N8GPD 4,320 80 54 Q A
W8RPF (+K8s IQR,VM,N8s FIB,JAS,JEG,NOU, WA8JFS,WB8OEU,W8RG) 146,594 486 259 L ABCD

Kansas
N8LL 213,597 629 293 S ABCDE
KB8HH 101,016 403 207 S ABDE
N8FQ 74,822 388 179 S ABDE
N8JEQ 11,692 120 74 S ABDE
WD8G 4,872 84 58 S A
WA8CFQ 3,311 77 43 S A
W8RT 2,415 49 35 S BD
K8VUA 703 26 19 S BD
W8QRP (+KW8T) 166,278 518 259 M ABCDE
WB8DRL (+KF8M,KX8O,N8KSC,N8OBY) 468,470 1013 395 L ABDE

Minnesota
WA8BWE 91,182 426 182 S ABCD9E
AJ8K 15,582 159 98 S AB
K8IR 14,280 137 85 S ABCDE
WA2HFI 19,992 204 94 S ABD
N8MWH 78 10 6 Q BD
WB8OHU (+N8BSG) 7,735 89 65 M ABCDE

KA8VYB (+G1XRL,G4JEC) 6,534 98 54 M ABCDEI
KB8ZO (+KB8CV,N8HJZ,WA2PHW,WB8GGM) 210,392 677 289 L ABDE

Missouri
KM8A 54,236 275 182 S ABCD
N8JRN 53,592 283 168 S ABCD
W8JRP 47,571 266 157 S ABCD
W8ZZQ 42,180 262 148 S ABD
W8FV 37,200 216 155 S ABCD
KB8OR 9,779 127 77 S A
KB8B 6,180 98 70 S AB
KA8GGI 5,831 119 49 S B
K8TLM (+AJ8E) 141,680 505 253 L ABCD
N8LBM (+KB8HF,K8ECH,KA8OFH,KB8V,N8s AMH,CLF,DJY,W8OGS,WA8QOD) 9,248 112 68 L ABD

North Dakota
N8TV 54,282 311 166 S ABDF
W8ACSL 45,430 295 154 S A
WB8OAJ 3,055 65 47 S A
K8VR 12,852 153 84 Q A
K8ALL (+KN8A,WA8ZOK) 50,484 294 166 L ABD

Nebraska
N8AJU 20,825 175 119 S AB
KF8J 20,580 210 98 S A
K8US 11,223 129 87 S A
KD8HE 6,336 96 66 S A
WA8BOK 4,200 75 56 S A
K8COR (+WA2JIM,K8NG,KA8AGH,KB8GWS, N8US,WB8s JWC,QIY,W8R) 75,361 333 187 M ABCDEI
NN9K (+K9AKS,W9UD) 158,710 563 269 L ABCD

South Dakota
WB8HMH 2,904 58 44 S ABD
N8KRX 644 28 23 S B

VE

Maritime-Newfoundland
VE1XDX 9,174 139 66 S A
VE1BVL 1,548 43 36 S AB
VE1AHM 336 19 14 S BD
VE1MQ 104 13 8 S B
VE1ING 9 3 3 S B

Quebec
VE2DUB 12,642 131 86 S ABCDE
VE2FUT 7,194 87 66 S ABCD9E
VE2XL 1,665 45 37 S A
VE2PLJ 44 11 4 S B
VE2TH 9,315 115 81 Q A
VE2UMS (VE2s BAP,DRW,MLX,XE,ops) 1,653 79 19 L BD

Ontario
VE3FGU 48,944 294 152 S ABD
VE3BGH 32,816 293 112 S AB
VE3EYR 22,969 186 103 S ABCDE
VE3EWP 22,950 197 102 S ABD
VE3VD 21,390 175 86 S ABDE
VE3SMA 14,212 156 68 S ABCDEGI
VE3PFC 11,410 153 70 S ABCGI
VE3WC8 7,228 111 52 S ABE
VE3PRF 6,930 90 66 S ABDI
VE3BFS 2,765 64 35 S ABD
VE3DSS 2,460 61 30 S ABCDE
VE3E2P 2,079 77 27 S B
VE3ET 2,072 52 37 S ABC
VE3DIR 1,273 32 19 S ABDE
VE3FVW 1,159 39 19 S ABDE
VE3DJ 976 45 16 S BDE
VE3RKK 2,871 79 33 Q BD
VE3ONT (VE3s ASO,FN,KDH,K2AR2D,W3EP, W9IP,ops) 344,112 838 321 M ABCD9EFI
VE3BON (+VE3s EHS,RBS) 83,620 410 185 L ABCD
VE3SAU (VE3s HJU,OJN,ops) 12,900 139 86 L ABD

Manitoba
VE4AQ 11,590 116 95 S ABDE

Saskatchewan
VE5UF 50,299 281 179 S A
VE5LY 8,190 105 78 S AB

Alberta
VE6NOV 21,312 204 96 S ABD
VE6TA 16,610 145 110 S ABD
VE6BOJ 7,250 110 58 S ABD
VE6AFO 1,734 45 34 S ABD
VE6GIL 500 25 20 S A
VE6JY (+VE6JY) 23,920 224 92 L ABDE

British Columbia
VE7XF 8,322 127 57 S ABD
VE7BLF 5,082 100 42 S ABCD
VE7ASI 1,748 57 23 S BCD
VE7PRC (VE7s ASY,ASZ,BEE,DAN,EHF,EHQ, FUR,KEV,KMD,QR,RJ,ops) 5,605 95 59 L AB
VE7SKA (+VE7FEI) 2,100 64 30 L ABD
VE7VHF (VE7s BFB,CIM,FYM,PTR,ops) 1,088 43 17 L BDE
VE7KPB (+VE7ZAC) 180 16 10 L BD

Marine Mobile
VE3YRA/MM (VE3s AAY,OXD,SST,WHY,ops) 6,844 106 59 L ABD
WA2GEZ/MM (+WA2TMF,WB2DGM) 3,404 92 37 L AB

DX
St Martin FS/KA38 192 16 12 S A

Belgium
ON8VW 1 1 1 S B

Bermuda
WA4VCC/VP9 (+AA4s R,SC,K4MQG) 46,494 378 123 L AB

Indonesia
YB2OK 8,330 125 49 S ABDE

Jamaica
KB4CRT/6Y5 285 19 15 S A

Rovers

Atlantic
KD2YB (+WD4RDZ) 38,610 129 117 R ABCD9EFG
W2HG 6,027 77 49 R BCD9
WA3UGP 4,323 44 33 R BCD9EFGHJ
K2KWK 2,208 76 23 R BC
WB3W 1,254 66 19 R B
N1AFQ 800 22 20 R ABCD9G
K2SSB 784 41 14 R BCD
K3IVO (WA3s KZR,TID,ops) 544 31 14 R BDEI
N3AOG (+WB3DN) 440 13 10 R 9EFGH

Central
KE9QT 36,188 211 166 R ABDE
N9KC (+KE9SA) 7,686 65 63 R ABCDE

Dakota
W7XU 12,193 108 89 R ABCDE
KF8GX 2,040 51 40 R AB
WA2VOI 896 30 28 R ABD

Delta
WA5JWU 6 3 2 R B

Great Lakes
KK7B 1,431 36 27 R ABD9EFGH

Hudson
KB2HQ 18,830 143 70 R BCD9EFGHJ
WA1ZYV 2,574 64 18 R BCD9EFGHJ
WB2BEJ 88 16 4 R ABCD
K2BST 14 7 2 R AB

Midwest
WA8TKJ 263,725 473 385 R ABCDE
AJ8E (+K8TLM) 20,648 136 116 R ABCDE
WY8C 624 26 24 R B
NF8Q 375 20 15 R BD

New England
KC1EB 33,284 163 106 R ABCD9EFGHJ
N1ISB 9,800 80 56 R BCD9EFGHJ
KA1WER 3,473 108 23 R BCD
KJ4KB/1 104 13 8 R B

Northwestern
KA7MCX 4,796 109 44 R A
N7DB 3,910 83 46 R ABD
K7Z 3,103 82 29 R BD

Pacific
K8LMN 20,068 155 116 R ABCD
KF8CU 8,288 123 52 R ABCD
N7CK 384 24 16 R B

Rocky Mountain
KB8CY (+WA6TTY) 55,510 278 182 R ABD
WB8XY 49,856 172 164 R ABCDE
WB7REL (+N7LPP) 1,353 37 33 R ABD

Roanoke
KJ4BF (AJ4N,KC4YJ,C,ops) 58,891 235 179 R ABCDEFI
KD4BCV (+KD4BCT) 3,567 84 41 R BD

Southeastern
KB4KKG 2,301 59 39 R AB
K1FJM/4 465 29 15 R ABD

Southwestern
WB9AJZ (+N8RPM) 9,420 136 60 R ABDE
WA6EJO (+WA6JOX) 782 17 17 R BCDIL
K8KAA 738 46 16 R ABC
WA6JZ 480 24 20 R A

West Gulf
N5DZS 48 6 4 R C

Canada
VE3NPB (+VE3OIL) 10,626 127 77 R ABD
VE3NUK 848 17 17 R BCDIE
VE6NOW 200 21 8 R BD

DX
Mexico XE2N8CW 4,293 81 53 R AB

Checkdogs:
KA2MCU, WA3AXV, WA6JYU