

Results, 19th ARRL 160-Meter Contest

"I didn't have an antenna, so I loaded up the rain gutter and had a nice time anyway."—WB9PXR

By Billy Lunt, KR1R
Contest Manager

Band conditions can either make or break a single-band contest. There is no other band to QSY to. You must brave the conditions, whether good or bad, and cherish any new multipliers you may gather. On the weekend of Dec 2-4, 1988, we were blessed with better-than-average propagation during the 19th annual ARRL 160-Meter Contest. The first night of the contest was reported to be the better of the two. Oliver, K4ON, contended, "There was no noise, for a change. Propagation was good and the operators were all first-class gentlemen." John, WF2W, reported, "Conditions were relatively good in my area. I heard some DX in the 1830-1850 segment but most DX was smothered by US stations working each other." The crew at W9AZ didn't have any trouble getting through to the DX. They annotated, "We had some great European runs right through the East Coast QRM."

It is hard to remember, especially in the heat of battle that the band segment 1.830 to 1.850 should be used for intercontinental QSOs only, in conformance with the ARRL band plan. We urge everyone not to forget. If we leave this small portion of the band open, many more DX QSOs may get through and help make the contest more fun for all.

Saturday night things were a bit different as expressed by Moe, KA1S. "This was a great contest with good ops. The going was slow the second night with 'just so-so' conditions." John, K3TUP, summed it up a little stronger with, "Second night was S-L-O-W!" Mitch, WB2JSJ, stated, "Where was the DX? I had a quick run of some strong Europeans at local sunset on the second night and that was it!"

Overall, everyone had a great time in the contest and many participants accomplished their personal goals. "I beat my old high score by over 12k. I think I may even have the NLI record by 10k," claimed Arthur, N2KA. Bill, K5KLA, borrowed an amplifier to try this year and "almost doubled my previous high score."

For some, it's not whether you win or lose. Fun is the name of the game. Richard,

Top Ten

Single Operator

Call	Score
K2EK	216,815
WB2Q	203,424
W3LPL	192,570
(WA8MAZ,op)	166,474
W0EJ	159,236
K3ZO	155,424
K1ZM	148,720
AA4NC	141,432
KC5DX	132,804
KF9D	132,640
N0TT	

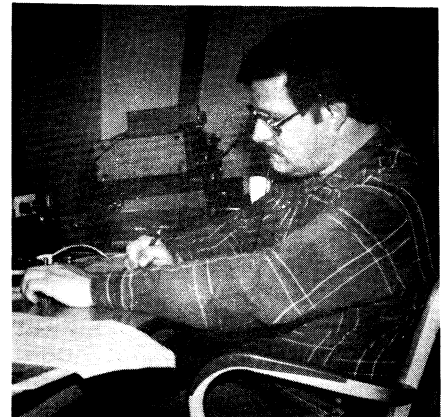
Multioperator

Call	Score
W9AZ	194,139
W8LT	187,598
K0DD	179,869
AA1K	169,116
K3TUP	160,706
W2GD	142,470
N4XM	124,872
N0SM	124,260
AD0O	113,256
WM4T	112,590

N1BVY, asks, "I wonder how old we have to be to get over the excitement of the 160-meter test? Carl, WB1DEZ, and I are both retired and have a ball with this contest. No mosquitoes in the shack and all we need is a coffee pot nearby. We have to improve my antenna for next year. The 80-meter dipole just didn't do the trick. An amp might just help, too. We just couldn't make it to Texas or the West Coast, but look out for us in '89." Gary, WM5K, couldn't walk away from the contest and explained, "A fun contest! Got on just to pass out a few points and wound up only needing KL7 for 160-m WAS in one weekend using only 100 watts."

Running up large QSO totals and finding

those rare multipliers on 160 meters takes a special skill—lots of patience and good ears to pull the weak ones out of the noise. K2EK proved his ability to do this by scoring 216,815 points and topping all others for an impressive first-place single-op finish. Bill worked 970 QSOs and 103 multipliers. Steven, WB2Q, piloted his Dad's station (K5NA) to the second-place spot, scoring 203,424 points. Don, WA8MAZ, guest oping at W3LPL, scored



K8ND takes his turn at the controls at the Ohio State University club station, W8LT, during their 2nd-place multiop finish.

Division Leaders

Single Operator

Call	Score
W3LPL	192,570
(WA8MAZ,op)	132,804
KF9D	97,416
W0UC	87,673
N4ZZ	84,975
N8EA	75,600
K2EK	75,600
W0EJ	75,600
N1ACH	64,528
N6TR7	64,528
W7XZ*	64,528
WC7S	64,528
AA4NC*	64,528
N4IN	64,528
N6ND*	108,264
KC5DX	141,432
VE3KP	105,108
YV10B	28,438

Division

Atlantic	
Central	
Dakota	
Delta	
Great Lakes	
Hudson	
Midwestern	
New England	
NorthWestern	
Pacific	
Rocky Mountain	
Roanoke	
Southeastern	
Southwestern	
West Gulf	
Canada	
DX	

Multioperator

Call	Score
AA1K	169,116
W9AZ	194,139
K0DD*	179,869
W8LT	187,598
W2GD*	142,470
N0SM	124,260
W10P	67,551
N7AGP	39,552
WB6EGE	17,875
AD0O*	113,256
WB4NMA*	87,438
K6LL*	101,232
W5NTJ	76,608
VE2OJ	27,030
JA7YAA	1,848

* Denotes a new division record.

QSO Leaders

Single Operator	Multioperator
K2EK 970	K0DD 979
W3LPL (WA8MAZ,op) 909	W8LT 922
WB2Q 864	W9AZ 916
W0EJ 848	K3TUP 844
KC5DX 831	N0SM 807
N0TT 814	AA1K 760
AA4NC 809	W2GD 745
K3ZO 793	AD0O 705
KF9D 771	N4XM 693
N8EA 765	WM4T 683

192,570 points for third place.

The crew at W9AZ top the field of multioperators scoring 194,139 points for a first-place victory. Ohio State University club station W8LT edged out K0DD and group by 8k for the second-place finish. W8LT scored 187,598 points and K0DD scored 179,869 points.

For 1988, League Headquarters received 18 DX logs from around the world. YV1OB was the top-scoring single-operator DX entrant. Charles worked 241 QSOs and 59 multipliers for his first-place win. Jim, K1TN, operated VP2MDC and made 137 QSOs and 41 multipliers for second-place DX. JA7YAA, operated by JJ3CNL, using a spotting net, finished first-place multi-operator among the DX stations. Ted worked 44 QSOs and 21 multipliers.

For those who have not tried 160 meters, especially in a contest, this is the contest to try. It is a lot of fun and almost any antenna will produce QSOs and excitement. See you Dec 1-3, 1989 for the 20th ARRL 160-Meter Contest.

Soapbox

I had a limited operation. I was only on Sunday night but I enjoyed it (JA9BOH). Many asked for my section, thanks to the FCC! Shouldn't even bother mentioning the "DX window;" better to test the US stations' receiving ability, not just transmit! (KX6DC). I came across 4U1UN calling CQ with no takers—easy 5 points! (KQ1V). I used a G5RV fed as a "T" against four 1/4-wave elevated radials. The elevated radials really made a difference. It brought my state total to 36 at 4-W output (KN1H). This is my favorite contest. As usual, there is always a monkey-wrench thrown in somewhere. This year, it seemed that whenever I got a run going, my 10-month old daughter would wake up! (N2KA). I operated from Radio Free Southampton—vertical busted; Zepp busted; German quad (546-ft horizontal loop) played good enough to stay in the running (NR2L). I heard only one other station from my section the whole time. I hope that is a



One of the ops at K6LL, multiop station, getting ready to launch the helium-supported vertical.



When the dust settled, Bill, K2EK, was the top-scoring single operator in the contest.

Multiplier Leaders

Single Operator	Multioperator
WB2Q 104	AA1K 102
K2EK 103	W9AZ 99
W3LPL (WA8MAZ,op) 98	W8LT 97
K1ZM 96	K3TUP 91
K3ZO 94	W2GD 90
W0EJ 94	K0DD 89
W8FN 92	N4XM 86
N1ACH 88	WM4T 81
AA4NC 88	WB4NMA 78
KG4W 88	AD0O 78

good sign! (WA2YEI). I had lots of fun! I had baby duty starting at 6 AM Saturday. I was too tired to do anything on the second night, except sleep. Great fun anyway! (KR2Q). This was my first year in the 160-Meter Contest. I thoroughly enjoyed the experience (WF2W). VS6DO started calling CQ right under me at sunrise on Saturday. Got him! Took 6 hours off Saturday night for an office Christmas party (AA1K). PLL hash kept the DX portion pretty messy (K3ZO). Great conditions! I'm not sure, but I think that I heard some DX in the DX window! There was so much activity in the contest, I guess we really needed that extra 20-kHz segment! (N3EQF). A new computer logging/duping program got us off to a walking start due to our inexperience on the keyboard (K3TUP). Greatly enjoyed by this 72-year-old-op that can copy CW! (W4GTS). I found the contest very enjoyable and plan to operate again next year. I got sleepy at 5 AM and quit. Probably lost a few multipliers. I will have to put in a serious effort next time. Lots of QRM. It was hard to hear the DX in all the mess. We need more room to spread out (WB4NMA). This was my first contest (AA4NJ). Good contest! Lots of fun! (WB4M). It was my first time on 160 meters. I got an antenna going one half hour before the start. I am hooked! See you next year (WD4AHZ). First time ever on 160 meters! I didn't have a tuner for 160 and could only get about 5-W output. Conditions were excellent (K6ETM). I got my very first 160-M antenna up. Now, I need an amp! Barefoot is murder on 160! (NE6I). This was not a contest—it was an experience! I ran 100 W to a 35-ft vertical. Maybe next year there will be a low-and-high-power category (KD6PY). A late start yielded my best-ever score (N6TR/7). I was flabbergasted! My first time on the "top band" and I picked up 43 states during the contest. I never knew what I was missing on 160-m! (N8AGU). Great event! Only wished that I could have stayed up after midnight to work some of the CA sections. I was just too tired. Heard my first DX on 160 m (YV1OB) with a good S-7 signal. Unfortunately, he could not hear me. Every so often, I would find a clear frequency and was surprised at the success of a CQ—a pleasure I seldom experience. Amazing how many get on 160 m for this contest. Thanks for your help in keeping it going (W9HE). QSOs were easier after noise level dropped from S9 to S3 when the TV was turned off! (WA0UI). My favorite contest! Thanks very much! (K0MZV). Last year I saw "where were the VE2s?" This year, I am here—not a "big gun," but "big fun" (VE2OPB).

Scores

Scores list call sign, final score, total QSOs, Total multipliers and hours operated (if given). (Example: DJ6RX scored 2400 points, with 48 QSOs and 25 multipliers).

DX

Federal Republic of Germany DJ6RX 2,400- 48- 25-	Guinea-Bissau J5ZUS (K9MN,op) 360- 15- 12-	Marshall Islands KX6DC (N28B,op) 4,680- 67- 35- 6	Montserrat VP2MDC (K1TN,op) 11,234- 137- 41- 5	N4XR 28,678- 202- 67- 6
Canary Islands EA8BTO 7,790- 95- 41-	Japan JA8RWU 1,932- 46- 21- JA9BOH 132- 11- 6- JA2FSM 32- 4- 4- 1	Peru OA4ZV 2,378- 41- 29- 3	Venezuela YV1OB 28,438- 241- 59-	K1VWF 28,671- 250- 57- 4
Ireland EI8J 140- 10- 7- 2	Panama HP1AC 40- 5- 4- 4	Czechoslovakia OL1BRA 788- 24- 16- OK1JDX 176- 11- 8-	W 1	K1VKO 14,038- 158- 44- 7
Italy ISVHO 270- 15- 9-	Denmark OZ1FTE 488- 18- 13-	Connecticut K1DH 36,596- 314- 58- 10	Eastern Massachusetts W1TR 34,987- 292- 59- 12 KZ1L 30,561- 243- 61- W1FJ 26,790- 232- 57- 4 K1CLV 25,821- 225- 57- 2 K1DWX 16,775- 130- 61- 5	N1JW 11,780- 155- 38- 4
				WA1FCN 2,950- 59- 25- N1ABY 2,784- 58- 24- 5

KQ1V	9,036-124-36-8	K3ZO	159,236-793-94	NOSH	714-21-17	N6LU	20,130-158-55-9	W9RE	100,035-586-81-10
W1HN	3,720-62-30-2	W3GN	67,480-470-70	Mississippi		N6JM	10,272-107-48	KGDD	47,144-328-71
W1ND (K1s JKS,KCI,KA1RQX,N1s DS,FNI,NA1A,N1P,NS1G, WB9UDQ,ops)	58,962-471-62	K3YGU	50,020-404-61-19	WBSZXR	65,959-460-71-14	7		WABMBP	36,084-291-62-19
New Hampshire		WB1DTJ	38,250-375-51	N9KS/5	25,806-253-51-9	Arizona		WB9C1F	31,136-278-56-16
N1ACH	127,952-691-88-19	N3EBR	21,242-247-43	WQSL	19,240-185-52	K7OX	76,368-504-74	AJ9C	27,610-251-55-12
WA3ECT	44,692-325-68	N3AM	20,844-190-54-5	W5GWD	1,240-31-20-15	ACTA	8,536-97-44-8	W9JOO	26,264-268-49-13
AE9B/I	18,950-169-50-12	W3HVN	4,495-76-29-8	New Mexico		K8LL (KB7H,NYV,WE7G,ops)	101,232-683-74-20	K9HCX	16,005-144-55
W1FZ	10,820-135-40	K3SA	2,700-50-27-1	W7LHO	28,760-240-62	Idaho		WB9PXR	14,592-152-48-10
KN1Z	10,320-120-43-8	K3DI	1,326-39-17-1	KN5S	28,730-221-65-5	KA7T	52,584-361-68-15	WA4VWV	13,500-150-45
KN1H	10,320-120-43-8	W3GG(+KD3JH)	52,975-400-65	WD5T	27,714-207-62	WS7U	37,332-306-61-21	W9JVF	10,960-122-45-3
ACTJ	4,228-74-29-3	Western Pennsylvania		K3L	14,522-137-53	K6RN	16,060-140-55-10	NA6CD	9,272-122-38-4
AK1L (+KA1X)	43,624-382-58-18	W3KWH (N3EQF,op)	79,662-558-71-30	KA1NXT	9,730-139-35-18	W7WU	1,716-39-22	KB8AC (+K9KLR,KD9CC,NJ9C, NS9A,W9SC,W9S ECX,VMW, W9S O,YRX)	82,869-599-69-36
NET1 (+KA1NN)	28,900-288-50-35	W3QM	76,364-560-69-20	North Texas		Montana		Wisconsin	
Rhode Island		K3BSY	48,860-340-70	KC5DX	141,432-831-83-21	KS7T	48,048-364-66	WA1UJU	84,663-612-69-21
WA1HYN	63,717-471-67-14	K5ZD/3	32,256-250-63-5	K5WXZ	69,450-451-75-25	N7AGP (+KC7O)	39,552-297-64	K9CAN	34,770-503-75
K2MN	18,800-200-47	KA3MMM	16,800-200-42-18	W5FIX	60,188-415-69-25	Utah		W9HE	83,075-357-55-11
N1DM	9,108-138-33-13	K3LVO	5,460-70-39-6	WMSK	44,448-310-71-14	W7HS	22,382-179-62-12	K9OSH	12,504-194-58-8
K8MM1	7,795-109-35-6	K3CLV	4,536-81-28	W5ONL	26,901-219-61-4	K7CJ	12,544-128-49-12	W9KSH	25,402-151-51-9
W1QOP (W1GS,N1AKO,WA1s JHV, NZR,ops)	67,551-478-69	K3RYA	100-10-5-1	W4YOK	16,280-148-55-8	K7OA	5,994-81-37	W9MGZ	12,939-112-57-0
N1BVY (+WB1DEZ)	17,200-200-43-19	K3TUP (+N3BJ)	180,708-844-91	W5WE	13,281-115-57-13	W7MR (+WE7B,WK7V)	64,890-426-70-19	Iowa	
Vermont		K3UA (+W3F5B)	29,965-229-65-4	K5UN	1,920-40-24	Washington		W9EJ	168,474-848-94
WB1GQR (WB2JSJ,op)	111,000-722-75-26	4		Oklahoma		K7QG	62,568-424-72	N8BB	36,048-289-67-16
K1IK	100,700-652-78-28	Alabama		K05D	30,550-232-65-12	KR7G	32,370-246-65	K8SRL	21,184-202-57-12
W3LPR	4,554-66-33-7	NA4JF	51,786-405-63-9	KM5H	7,800-100-39-1	W7BK	24,282-201-57-15	K8DCA	4,080-60-34-4
Western Massachusetts		WZ4F	25,520-217-58-4	South Texas		NK7V	9,660-105-46	N8SM (+K9s JGH,RW,N8JL,N8RE, WD8A0B, WE8U)	124,280-807-76-33
KZ1M	23,136-238-48-6	Georgia		W5XD (W2IE,op)	70,858-493-71-20	K7UJ	6,800-100-34	WB8XR (N2AWE,W3ATH,K9AYK, KB9BNR,N9s HKL,OC9M, KA8OVA, N8EL,N9UB, W8UDJ, WD8s AZW,DUK,WM8D,ops)	76,680-534-71-34
KB1W	22,854-223-47-4	KN4B	37,989-294-63-16	K5TSQ	45,408-278-73-7	K7GK	4,736-64-37-7	Kansas	
KY1H	4,712-76-31-6	NA4UZ	35,380-305-58	KB5OG	33,116-233-66-23	K7XO	2,444-47-26-3	W9UY	42,306-316-66-28
2		W4DXI	34,748-226-73-16	W5PWG	22,940-185-62-13	W7KJ	572-26-11-1	WBAWP	18,054-153-59-12
Eastern New York		W4GTS	20,574-189-54	WN5TEN	18,550-175-53-20	Wyoming		W8RT	9,200-100-46-3
K2EK	218,815-970-103-31	W4CEB	6,435-70-45	NRSM (WN4KKN,op)	12,768-111-56-2	K7MM	1,120-28-20-1	W8YXK	4,900-70-35-12
WB2Q	203,424-884-104-32	AA4VD	6,240-104-30	AK5E	7,740-86-45-6	Michigan		Minnesota	
K1ZM	155,424-749-96-25	NA4VP	1,580-39-20-5	N1EE/5	364-14-13-1	N8EA	132,048-785-84-30	W9UC	97,416-675-72-18
N1CC	48,384-442-54-17	WB4NMA (+N3AHJ)	87,438-532-78-25	W5NTJ (+KC5ZT,WAS1EX,WR5Q)	76,608-474-78	W8UVZ	72,792-498-72	WB9H	65,274-373-69-11
NA2M	28,196-219-59-10	W4FGH (+W4F)	57,850-442-65-31	West Texas		W8NWD	39,236-281-68-11	W1GV	60,237-435-69-12
WB2PUH	1,540-35-22-2	Kentucky		WF5E	44,287-317-67-25	NK7G	9,800-98-50-15	KJ9B	47,235-351-67-16
KSNA	2-1-1-1	K4FU	96,408-606-78-28	W5AWT	3,712-58-32	K7UU	4,736-64-37-7	W9QB	27,376-232-59-9
NYC—Long Island		AA4NJ	82,214-548-74-32	6		K7XJ	2,444-47-26-3	W9FXL	15,592-113-68-11
N2KA	44,800-308-70-12	KK4Q	48,120-398-60-7	East Bay		W7KJ	572-26-11-1	W9HBE	10,212-111-46-6
NR2L	18,240-187-40	W44EBN	34,884-306-57-21	W8FSJ	33,356-248-62-12	Wyoming		K8AD	9,840-123-40
W2JGG	13,524-161-42-10	N4XM (+KD4U,NO4R)	124,872-693-86-24	K6HIH	28,140-227-80	W8W7S	75,600-525-70	W9NGB	8,910-99-45-6
W2KTF	8,470-121-35-4	WM4T (+N4DBR,NV4H,KU8E)	112,590-683-81	K6XV	24,012-204-58	K7MM	1,120-28-20-1	N8AT	7,400-100-37-2
WB2DLA	6,840-114-30-12	North Carolina		N8EK	18,630-171-54-12	Michigan		K8GJX	6,355-78-41-8
WA2YEI	5,280-88-30-6	AA4NC	148,720-809-88-25	K6TS	5,760-72-40-4	N8EA	132,048-785-84-30	Missouri	
W2GKZ	3,392-53-32	K4PB	57,152-445-64-14	Los Angeles		W8NWD	39,236-281-68-11	N8TT	132,640-814-80-30
Northern New Jersey		W4UW	9,635-101-47-13	N6LL (WA6CDR,op)		W8NWD	39,236-281-68-11	N8XN	52,620-373-70-10
WA2SRQ	131,292-744-84	WB4M	5,921-94-31-9	K6EID	55,440-351-70	K8CV	31,696-283-56-12	KM8L	21,306-198-53-4
WB2ULI	75,897-452-81	Northern Florida		N6EI	12,558-148-42-12	W8DDT	9,800-98-50-15	W8DUI	15,600-156-50-13
KR2Q	67,067-499-67-11	K4ZRA	30,744-249-61	AD6C (+AE6E)	91,960-539-78-34	W8ROS	5,478-83-33	W8AV	9,202-107-43
K2STO	21,930-212-51	WC4E	21,359-200-53-7	Orange		W9QOA	3,120-65-24-4	W8BEJN	6,510-93-35-6
KA2BZS	21,730-196-53-15	W1XO	14,758-157-47-7	N8PE	40,296-286-69-11	Ohio		NS8B	4,824-67-38-1
NW2D	18,830-153-55-4	KD1U	9,430-115-41-10	NA4RO/6	26,901-212-63-16	W8FN	119,876-614-92-18	N8JGU	4,212-78-27-7
W2GDX (+NET)	142,470-745-90-18	NC1R (+KB4LTQ,WS4Y)	65,240-483-70-24	N16W	9,576-114-42-8	N8FN	101,724-580-84-23	North Dakota	
Southern New Jersey		South Carolina		WD6L	1,932-42-23-4	W8BPHI	74,130-525-70-24	W8BO	61,557-432-71-8
N2GZL	36,270-270-65-8	AA4V	36,649-266-67-8	W8SX	918-27-17	K9ALP	70,449-509-69-27	NT9V	28,035-218-63
W2BN	28,956-254-57	AA4ZW	29,768-238-61-24	W6AT (N6RUB,WA6BCN,WY6Z, WB9ZDI,ops)	38,012-275-68-24	W8XM	53,060-370-70-15	Nebraska	
AB2E	10,906-133-41	W4UKU	25,592-227-58-19	Pacific		K8KEM	49,320-411-60	KV8I	43,520-340-64-10
W2PAU	8,931-113-39-4	Southern Florida		WA3KOG/KH6	2,106-39-27	NG8D	41,104-367-56-18	K8MZV	19,152-171-58-6
W2PVA	8,132-107-38	N4IN	64,528-424-74-20	Santa Barbara		N8AA	36,335-275-65-11	South Dakota	
K2TD	7,800-100-39-4	WD4AHZ	23,296-221-52-12	N8VR	6,216-74-42-2	KBSTV	27,492-237-58-22	K8EE	18,646-142-58-5
West New York		KR4U	3,300-55-30-10	K6MXO	4,898-79-31-18	KA1S	22,660-206-55-12	K8DD (+K8s,KC,KS,NS8N,WB8AD0)	179,869-979-89
KM2P	94,754-643-73-27	Tennessee		W6JEO	4,620-70-33-7	KB8JH	21,782-200-54-8	VE	
WF2W	41,085-372-55	NA4Z	87,673-596-73-9	AA6EQ	1,080-30-18-4	N8AGU	18,256-160-56-8	Quebec	
WA2QKF	36,875-311-59	KV4B	21,167-169-61-11	W8HD0 (+AA8DT,K16QE,W8UJ)	32,319-255-63-15	W8IDM	10,660-130-41-6	VE2OPB	1,558-41-19
KU2A	29,284-245-59-15	K4ON	19,200-192-50	Santa Clara Valley		K8MR	3,024-54-28	VE2s FLD,SD,VE3s GNV, NJ,ops)	27,030-282-51-12
N2WK	18,414-169-54-10	AK0M	16,873-178-47-6	KV6H	29,888-229-84	WB1LC	2,349-39-29-1	Ontario	
W2TZ	16,836-183-46-5	K4AMC	16,200-162-50	KD8PY	22,120-193-56	AF8C	2,116-46-23-4	VE3KP	105,108-681-76
NA2Q	15,228-182-47-8	N4TG	13,254-141-47	NS8V	19,344-188-52-9	K8KSN	1,610-35-23-2	VE3CUI	59,772-435-68-18
KB2NU	12,599-145-43-6	Virginia		N8NF	7,714-100-38-5	W8LNT (K1LT,K8ND,K8NS,KU8E, NZ8R,ops)	187,598-922-97-39	VE3NBE	10,664-124-43-9
WJ2O	6,484-101-32-7	KG4W	93,016-494-88	KB8FPW	3,780-63-30-7	West Virginia		VE3JZK	9,245-106-43
W2FR	3,584-64-28-4	W4XD	70,299-468-73-14	KG6AO	2,900-50-29-3	K8OQL	65,068-443-72-20	VE3DO	5,184-72-36-8
W2GJ	528-22-12	W4WIN	69,089-475-69	W6PRI	2,440-61-20-6	KV8S	28,277-229-57-6	British Columbia	
Delaware		W4JVN	29,574-231-62-20	W6FDU	1,974-47-21-5	KB8FJ	7,200-100-36-2	VE7FPT	29,510-224-65
KA3UW	10,000-122-40	K4BAM	29,232-258-56	W6BKV	1,148-41-14-8	W4PSJ	3,200-50-32	VE7CKF	624-24-13
AA1K (+NET)	169,116-780-102-20	K4VHH	28,392-249-56	San Diego		Illinois		Checklogs	
Eastern Pennsylvania		K4OD	25,137-219-57-10	N6ND	108,264-640-78-24	KF9D	132,804-771-84	AE7K, LA5SAA, N6VI, OK1DWJ, PA3AAV, VE4AAU	
W3TS	113,820-652-84-20	K4FFF	19,380-190-51-10	K1MS	76,041-480-71	NA9J	93,456-649-72		
K3UEI	88,165-553-77-29	W4YE	19,200-200-48-5	W6JVA	7,392-84-44	K9HDE	82,308-534-76-18		
W3UM	85,701-540-77-14	K2UOP/4	14,238-162-42	AA6EE	608-19-16-1	K9AB	51,730-365-70-13		
W3GU	78,432-498-76	W4KMS	12,784-136-47-13	San Francisco		N9JF	27,680-229-60-9		
K3ONW	53,976-340-78	AA4UJ	7,527-95-39-3	W8BIP	16,524-159-51-15	K9MD0	20,000-200-50-10		
WB3FAA	20,700-230-45-12	W4UG	5,544-77-36-3	W6JTI	14,850-132-55-12	NC9F	13,800-150-46		
K13S	18,700-187-50-9	K8ETM	3,472-62-28-6	AL7JO/8	4,224-61-33	K9PPW	11,000-110-50-6		
W3EZH	15,369-162-47	N4MM	832-26-16-2	WB6EGE (N6s MQ,OC,WB8WPO,ops)	17,875-161-55-13	W8EYB	10,668-127-42		
K3VV	13,940-170-41-4	Arkansas		San Joaquin Valley		W8GQJ	8,820-105-42-7		
W3AP	11,088-129-42	K6ASB	10,332-123-42	K6MO	41,875-284-67-17	WD9CW	5,880-84-35-25		
W3CNS	10,296-117-44-5	W5VBE	6,512-88-37-4	K6XK	3,144-46-24-3	WD9WP	4,900-70-35-7		
W3GBG	9,750-125-39-18	Louisiana		W6BITM	2,580-43-30-3	ND9X	2,378-41-29-2		
NK3U	7,770-111-35-8	KSCLA	80,104-518-78-16	San Francisco		W9TAL	198-11-9		
N3B									