

Results, 18th ARRL 160-Meter Contest

What's this—a host of S9 CW signals on 160?

By Billy Lunt, KR1R

and Mark R. Burke, KA1MIS

Contest Manager, ARRL

Contest Assistant, ARRL

Bad conditions, storms, high noise levels, no DX, QRN, QRM—the normal and expected low-band contest complaints didn't suppress the activity or the upbeat mood for this year's 160-Meter Contest. Not only was activity at an increased level, but conditions were reported as being at least good, if not great, from nearly all areas! The number of newcomers to the band has steadily increased, partly because 160 meters is within the capabilities of most transceivers today. Also, the number of "tall towers" that can be shunt fed, or support dipoles and inverted-Vs, are forever increasing. With the new technology that is available today in combination with large antenna farms, a multitude of "super stations" are emerging on the horizons creating a high level of competition on 160 meters.

Although the top scores were down a bit from the previous year, this didn't prevent three new division records from being set, one single op and two multiop. Check the Division Leaders box for full details. This year, a total of 422 entries for the 160-Meter Contest were received by HQ, up slightly over the 405 logs received for the 1986 contest.

QSOs were plentiful! The top scoring stations had QSO totals into the 900s. The single op QSO leader was K5NA, who completed a total of 988. Not far behind was W0EJ, who contacted 935 stations for the second highest QSO total. Just behind Wade was the third place contender, W3LPL (KM3T,op), with a solid 928 QSOs. W0AIH/9 led the way amongst the multiop stations for the highest contact count by mustering 1009 QSOs. K0DD placed second with 994 QSOs while W8LT showed a strong third with 947.

Multiplier hunting is an art for some and for others it is a reality which comes readily when piling up high QSO totals. The single op station that was the most successful in hunting multipliers was KM1H (KQ2M,op) with a total of 102. Just behind Bob was K5NA, digging out 100 multipliers. Next with 99 multipliers was Dave, KM3T, guest operating at W3LPL. W8LT collected 91 multipliers among the battery of multiop stations for the top multiplier leader. With only one multiplier separating the top spot, KS8S claimed a strong second place with 90 multipliers. K2WI and crew produced the third highest count with 84 multipliers.

Eastern New York "Superstar" Richard, K5NA, scoring 221k points, returned this year

for another first place victory over all other single-operator stations. Dave, KM3T, piloted "super station" W3LPL to the second place spot with a total of 206k points. Close behind was KM1H (KQ2M, op) with 192k points for the third place position.

On the multiop scene, the crew at the Ohio State University club station, W8LT, snuck past the KS8S threesome for the first place win by a little over 6k points. The Wisconsin-based multiop station W0AIH/9 edged out K0DD and his four South Dakota counterparts by only 124 points for their third place triumph.

League HQ received a total of 12 DX logs

from around the world this year. G3RZP was the top scoring single op DX entrant. He worked a total of 43 QSOs and 24 multi in a 9-hour period. The top DX multiop station was J6A from the island of St Lucia. The five-stateside-man DXpedition had many propagation problems but managed to work 94 QSOs and 44 multi for their multiop triumph.

Congratulations to all the participants of this year's contest for their valiant effort on one of the most trying bands to work—160 meters. We are looking forward to seeing everyone again Dec 2-4, 1988 for the 19th running of the ARRL 160-M contest. Special thanks to Contest Assistant Mark Gamble for his help in preparing the results.

Soapbox

We could only operate the first night with hopes to do well with the special call sign, but conditions were very poor. Many stations had trouble with the call and some even sent back W6A?? and asked for our section. Hi! (J6A). The first night was terrible due to a storm. Only the strongest signals could be heard. The second night things were better and we didn't give the DX boys a chance to break through our domestic phalanx. Some still succeeded...! (W1PL). Never called CQ, just answered them. Most QSOs were made with 25 watts output. Lots of fun! Worked several new states on 160 (KT1H). Where were all the 6s and 7s? Glad to hold frequency with my 100 watts and pick up 36 states in 5 hours (KZ2H). Where were the VE2s this year? Didn't hear any of them during the entire contest.

Top Ten

Single Operator

Call	Score
K5NA	221,900
W3LPL (KM3T,op)	206,019
KM1H (KQ2M,op)	192,780
AA1K	159,774
W0EJ	147,498
K3KG (KM9P,op)	142,128
K4LTA	124,986
N4ZZ	124,616
WN4KKN/5	123,880
W9YSX	121,891

Multioperator

Call	Score
W8LT	181,090
KS8S	174,780
W0AIH/9	160,844
K0DD	160,720
K2WI	141,624
W9AZ	134,400
KA8HFO	118,404
KC5DX	111,840
N4XM	109,650
W0BXR	94,316



Relaxing after their first-place multiop victory in the Georgia Section, Bill and Bill, operators of W4FGH, kick back and pose for this photo. Bill, W4FGH, is on the right and Bill, W4F, is on the left.

From April 1988 QST © ARRL



Rus, NJ2L, secures his position as top single op of the Connecticut Section for the 160-Meter Contest.

What section will be vacant next year? VE4s? (K2WI). A 10-percent dupe rate in response to my call is ridiculous! (KW2J). No foreign contacts (W2GJ). My 90' wire at 15' is the equivalent to using a 6' wire 1' off the ground on 10 meters! Had a lot of fun, though (WB2EKK). Non-DX in 1830-1850 was not followed by anyone (K3MD). Still looking for WY and KL7. Guess I will have to go the linear route. Heard them but couldn't break through (W3HDD). Biggest thrill was working ZL3GQ at 0815 UTC (N4UZ). Small antennas and 100 watts, but still had fun (KY5N). Thanks to all who strained to hear my 100 watts! (W6JTI). I don't feel right giving everyone I work a 599. Most reports to me were 599 which I do not really appreciate as I know it's not true. Let's all give true reports next contest even though it takes a few seconds longer (W7IWU). My entire station was borrowed for the contest. I do not own a rig with 160 meters, but that will change! I was amazed what my 100-watt signal could do! I will be back next year! (NC7K). My ham shack is located in an old shed behind my house near a corn field that was recently plowed, which left many field mice homeless. Where did they go? Why, to my shack of course! Between contacts my son's BB gun was put to good use! (WA7HQD). First time ever on 160

Division Leaders

Single Operator

Call	Score
VE3KP	94,004
W3LPL (KM3T,op)	206,019
W9YSX	121,891
K0PK	104,400
K4LTA	124,986
W8FN	82,002
K5NA	221,900
W0EJ	147,498
KM1H (KQ2M,op)*	192,780
KE7X	68,103
W7XV	69,486
K4XU	110,625
WA8MAZ	103,293
K3KG (KM9P,op)	142,128
K7OX	76,320
WN4KKN/5	123,880
G3RZP	2,064

* Denotes a new division record.

Multioperator

Call	Score
—	—
K2WI	141,624
W0AIH/9	160,844
K0DD	160,720
—	—
W8LT	181,090
—	—
W0BXR	94,316
N1BVY	10,850
—	—
KV6H*	80,811
AD0O	63,280
—	—
NC1R	74,830
N6DX*	71,700
KC5DX	111,840
J6A	8,272

Antennas Used by the Top Scorers

Single Operator

K5NA	Inverted-V at 125 ft and a 155-ft shunt-fed tower.
W3LPL (KM3T,op)	1/4-wave wire vertical, delta loop at 195 ft, sloper off 200-ft tower and an 800-ft Beverage.
KM1H (KQ2M,op)	Vertical, shunt-fed tower and inverted-V at 140 ft.
AA1K	113-ft shunt-fed tower with 200 radials and six 600-ft-long Beverages.
W0EJ	1/4-wave sloper and 1 Beverage.

Multioperator

W8LT	40-ft vertical and 2 wire Beverages.
KS8S	Phased verticals.
W0AIH/9	Verticals, dipoles and Beverages.
K0DD	130-ft base-insulated vertical and 1000-ft Beverage.
K2WI	Inverted-L and two 500-ft Beverages.

CW. I really enjoyed the contest even though I had an antenna that wasn't supposed to work. I will be ready next year! (NZ8J). Lots of activity but no DX to be heard from the Midwest area. KH6 was the best we could do (W9LNQ). Not bad for going QRP to an unmatched 40-meter sloper! A lot of guys have good ears (NU9R). Excellent conditions even for my simple station. Six new states... can't wait for

next year (K0OST). I'm amazed at my results using only indoor antennas and 100 watts. Special thanks to all the stations that strained to copy my weak signals (KU7U). I hear the moonbounce guys had a pretty rough weekend also; the aurora was pretty bad (K0DD). Saturday night conflicted with the annual office Christmas party—missed nine prime-time hours, but it was a good party! (VE5UF).

Scores

Scores list call sign, final score, total QSOs, total multipliers and hours operated (if given). Example: EI9J scored 108 points, with 9 QSOs and 6 multipliers in 2 hours of operation.

DX

Bahamas	
N4RP/C6A	792- 22- 18-
Ireland	
EI9J	108- 9- 6- 2
England	
G3RZP	2,064- 43- 24- 9
Dominican Republic	
H1BLC	1,200- 30- 20-
St Lucia	
J6A (K6GXO,N8BJQ,NC8Q,W8ILC,WD8IXE,ops)	8,272- 94- 44-
Japan	
JA8RWU	1,122- 33- 17-
JA7YAA (JN1VYN,JG3JRM,JJ3CNL,JE7QCO,JR7DRV,ops)	324- 18- 9-
JA1YHA (JQ1HKA,JS1s ERB,DCT,ops)	240- 12- 10-
JA9YBA (JA9s VDA,-10148,JH9VSF,ops)	60- 6- 5-
Finland	
OF3GD	2- 1- 1-

Poland

SP5GH 390- 15- 13-

West Malaysia

9M2AX 120- 10- 6-

W

1

Connecticut

NJ2L	77,200- 439- 80-10
N4XR	53,747- 365- 71-14
K1TO	36,394- 289- 62- 5
W1BIH	28,443- 242- 57- 6
W1WEF	12,138- 119- 51- 2
K9BNM	9,180- 135- 34- 5
K1YRP	8,092- 119- 34-
AA2Z	3,718- 70- 26- 1
W1QV	2,058- 49- 21- 3
WA3VIL	220- 11- 10- 2
KH6CP/1	2- 1- 1- 1

Eastern Massachusetts

W1PL	79,350- 493- 75-
KA1DWX	44,488- 311- 67-13
W1TR	30,195- 273- 55-14
W1FJ	16,100- 175- 46-
W1AX	15,300- 150- 50- 5
AA1O	13,940- 170- 41-
A13E	8,172- 112- 36-

KA1CLV	6,976- 109- 32-10
K1XM	6,588- 90- 36- 3
W1HWU	5,394- 87- 31- 6
AK1F	3,538- 61- 29-
KQ1F	2,726- 47- 29- 2
KQ1V	990- 33- 15- 2

New Hampshire

KM1H (KQ2M,op)	192,780- 795-102-34
N1ACH	106,622- 542- 89-20
WA3ECT/1	23,056- 256- 44-23
AK1L	21,560- 245- 44-12
W1FJH	18,616- 173- 52-10
W1FZ	8,844- 134- 33-
KA1LMR	3,770- 65- 29-13
KT1H	3,672- 68- 27- 5
AC1J	2,508- 66- 19- 4
KA1NXT	2,100- 50- 21-11

Rhode Island

K2MN	18,952- 206- 46-16
K1IU	15,664- 169- 44- 5
WA1HYN	8,320- 130- 32- 4
K1DT	7,070- 101- 35- 6
N1DM	1,620- 45- 18-12
N1BVY (+WB1DEZ)	10,850- 155- 35-12

Vermont

WB1GQR	95,100- 610- 75-26
K1IK	79,570- 533- 73-22

Western Massachusetts

KY1H (N1EMG,op)	67,000- 485- 67-16
KZ1M	11,760- 168- 35- 7
W1JP	2,760- 60- 23- 3

2

Eastern New York

K5NA	221,900- 988-100-38
NA2M	40,768- 317- 64-
KN2Q	13,455- 171- 39- 6
WA2IKR	12,240- 153- 40-
WB2PUH	2,500- 50- 25- 4

NYC-Long Island

N2KA	28,320- 237- 59-12
NR2L	11,356- 167- 34-
W2KTF	11,232- 144- 39- 5
W2KTU	8,100- 135- 30-12
WB2DLA	3,840- 80- 24-10
W2GKZ	2,288- 44- 26-
WA2YEI	1,634- 43- 19- 4

Northern New Jersey

W2GD	113,645- 625- 85-14
WA2SRQ	109,824- 677- 78-27
K0DI	75,636- 567- 66-29
K2STO	20,915- 221- 47-24
KZ2H	16,212- 184- 42-

Southern New Jersey

K2FL 13,912- 145- 47- 8
K2WI (+ WAZIJO,N2NU)
141,624- 777- 84-

Western New York

KW2J 38,700- 387- 50-12
K2KYH 22,440- 201- 55-10
W2TZ 20,196- 228- 44- 6
NA2Q 15,910- 185- 43-11
KK2B 7,200- 100- 36- 6
KU2A 7,062- 107- 33- 9
W2GJ 5,432- 97- 28- 5
K2MPE 4,872- 84- 29-13
W2OMV 1,800- 36- 25- 5
W2MTR 576- 18- 16-

3**Delaware**

AA1K 159,774- 760- 93-19

Eastern Pennsylvania

W3TS 101,871- 639- 77-
W3UM 87,780- 482- 84-12
K3IPK 49,302- 446- 54-
W3BGN 22,134- 214- 51- 5
WB3FAA 18,480- 231- 40-12
WA3YON 15,224- 173- 44-10
W3CNS 7,000- 100- 35- 4
K3WW 6,732- 102- 33- 2
K4JLD 5,781- 69- 41-
K13S (+ NF3P) 42,336- 432- 49-22

Maryland-DC

W3LPL (KM3T,op)
206,019- 928- 99-
N3CXV 120,960- 690- 84-22
W3HVQ 48,832- 433- 56-14
WB2EKK 10,530- 135- 39-
W3TFA 9,648- 134- 36-
W3GN 7,770- 105- 37-
K3AA 5,576- 82- 34- 5
KB3HH 1,428- 34- 21-
WB3JRU (+ KC3AJ)
4,256- 76- 28-

Western Pennsylvania

W3QM 101,232- 694- 72-28
K3UA 72,504- 456- 76-12
K5ZD/3 24,708- 213- 58- 4
K3MD 22,360- 215- 52- 6
W3HDH 14,076- 153- 46- 5
W3KWH (N3EQF,N3GH,ops)
31,512- 303- 52-

4**Alabama**

N4JF 50,388- 366- 68-12
WB4CSK 16,400- 164- 50-
WZ4F 10,704- 110- 48- 2

Georgia

K3KG (KM9P,op)
142,128- 810- 84-
KN4B 40,260- 334- 60-31
W4DXI 28,536- 243- 58-
N4UZ 21,033- 183- 57-
AA4EH 13,770- 126- 54-13
W4FGH (+ W14F)
37,816- 323- 58-26
Kentucky
KK4Q 45,714- 401- 57-10
WA4EBN 25,186- 257- 49-30
WB4FDK 11,088- 126- 44- 7
N4XM (+ KD4U)
109,650- 722- 75-28

North Carolina

WA8MAZ 103,293- 744- 69-24
K4PB 38,752- 346- 56-
AA4NC 24,299- 257- 47- 5

Northern Florida

WA4JXI (WA4SVQ,op)
95,590- 575- 79-20
W4HBK 54,145- 415- 65-
W1XO 10,530- 117- 45- 7
W4WKQ 6,208- 97- 32-12
NC1R (+ KB4LTQ,WS4Y)
74,830- 527- 70-33

South Carolina

K0EJ 52,290- 409- 63-15
K4CNW 39,000- 325- 60- 9
W4UKU 34,221- 279- 61-18
K4II 21,944- 211- 52- 8
K8UNP/4 9,495- 104- 45-
K4ADI 6,160- 88- 35- 4

Southern Florida

N4IN 39,520- 295- 65-

Tennessee

K4LTA 124,986- 837- 74-
N4ZZ 124,616- 842- 74-20
K4XO 31,070- 236- 65-11
KV4B 17,545- 158- 55-11

Virginia

W4XD 69,010- 509- 67-16
AA4F 65,205- 465- 69-
K4OD 28,158- 247- 57-13
K4FPF 15,974- 163- 49-10
WA4BUE 13,020- 155- 42-
W4KMS 12,285- 135- 45-15
W4UG 9,964- 106- 47- 7
N4MM 2,600- 50- 26- 1

5**Arkansas**

W5KL 43,092- 342- 63- 7

Louisiana

K5KLA 44,667- 350- 63-13
W5EW 36,360- 303- 60-13
K5MC 20,405- 184- 55- 5
NO5H 5,032- 68- 37-

Mississippi

WB5KYK 25,346- 217- 58-20
N9KS/5 8,736- 104- 42-
W5GWD 3,600- 60- 30-12

New Mexico

KB5UL 50,508- 363- 69-19
KT5X 40,736- 301- 67- 6
KN5S 35,295- 270- 65-14
W5DO 34,707- 247- 69-14
W5SO 32,520- 271- 60-13

North Texas

WN4KK/N5 123,880- 803- 76-21
K5WXX 50,330- 355- 70-23
W5FIX 40,950- 322- 63-21
N5UA 29,036- 212- 68-12
N4QS 19,706- 167- 59- 7
KY5N 10,534- 113- 46- 7
N25M 1,554- 37- 21- 6
KC5DX (+ AA5DX)
111,840- 684- 80-19

Oklahoma

W7FG 114,404- 770- 74-20
WM4Z 16,356- 174- 47-
W5EHY 11,220- 110- 51- 5

South Texas

WN5TEN 23,200- 200- 58-12
W5IRP 5,776- 76- 38- 2
N5AFV 608- 19- 16- 2
N5ZR 252- 14- 9-
W5NTJ (+ KC5ZT,WR5Q)
49,104- 351- 66-
W5XD (+ W2IE) 32,830- 242- 67-11
W5MPX (+ KM5S,NQ5B,W0TV,
WD0CEN) 19,608- 172- 57-30

West Texas

WF5E 39,744- 309- 64-18

6**East Bay**

K6HIH 45,582- 318- 71-
W6FSJ 28,060- 227- 61-11

Los Angeles

N6LL 55,338- 398- 69-20
NE6I 4,292- 74- 29- 8
W6PFE 510- 17- 15- 5
N6DX (AD6C,N6VR,NS6X,ops)
71,700- 466- 75-32
W6UE (AA6RX,WA6OTH,ops)
38,391- 282- 67-20

Orange

N6PE 37,740- 267- 68-20
N4ARO/6 15,200- 152- 50-14

Santa Barbara

W6OUL 11,172- 130- 42- 7
WA6FGV 4,200- 70- 30-10
W6JEO 3,484- 67- 26- 7
NV6I 2,200- 44- 25-

Santa Clara Valley

W6NA 25,320- 208- 60-16
NS6V 25,245- 228- 55-10
KB6FPW 2,704- 52- 26- 6

San Diego

N6ND 60,680- 395- 74-
K6IMJ 49,700- 343- 70-42
K6NA 4,500- 61- 36-
W6UCF 330- 15- 11-

San Francisco

W6JTI 33,344- 253- 64-30
K6LRN 6,552- 84- 39- 4
WB8EGE (KA6OPN,N6s MQ,QC,
WB6WPO,ops) 43,452- 303- 68-32

San Joaquin Valley

K6MO 33,914- 248- 62-17
K6XK 14,625- 149- 45-13

Sacramento Valley

N6JV 41,448- 302- 66-20

AA6DX 7,400- 100- 37- 7
W6AAUE 7,070- 101- 35-
KE6VL 1,104- 24- 23-
KV6H (+ KF6A,KI6O,N6IG,NB6G)
80,811- 504- 73-

Pacific

AH6AZ 2,880- 32- 18- 7
WA3KOG/KH6 1,560- 36- 20-

7**Arizona**

K7OX 76,320- 524- 72-20
K7SP 42,364- 304- 68-18
KY7M 11,600- 116- 50- 5
NF7E 6,364- 86- 37-

Idaho

KA7T 23,485- 212- 55-12
W7GHT 17,472- 156- 58-
K6RN 12,267- 129- 47-10
KB7CSB 5,518- 89- 31-17
W7IWU 3,744- 72- 28-

Montana

KE7X 68,103- 492- 69-29
K0PP/7 55,556- 407- 68-24
KS7T 14,472- 134- 54- 8
W7LR 1,794- 39- 23- 2

Nevada

W7XZ 69,486- 453- 74-33
NC7K 28,840- 256- 56-19

Oregon

W7YAQ 12,800- 128- 50- 5
AD7T 8,740- 95- 46-

Utah

WA7HQD 20,458- 193- 53-12
WE7H 8,398- 122- 34-
K7CU 6,596- 97- 34- 7

Washington

K9JF/7 44,812- 322- 68-17
W7MCU 24,354- 180- 66-14
W7BYK 16,356- 141- 58-12
W7IEU 10,148- 118- 43-15
K7WA 8,436- 111- 38- 7
NK7V 7,144- 94- 38-
K7UU 5,180- 74- 35- 4

Wyoming

WC7S 60,300- 450- 67-25
WC7M 59,160- 435- 68-15
KC7KC 7,440- 93- 40- 9
NS7Z 3,180- 53- 30- 3

8**Michigan**

W8UVZ 63,549- 459- 69-
N8EA 63,308- 458- 68-
W8VSK 26,730- 243- 55-13
W8WVU 19,392- 202- 48-
K8CV 18,860- 205- 46- 8
NO8Q 4,900- 70- 35-
KC8P 4,560- 76- 30-
W8YL 128- 8- 8-

Ohio

W8FN 82,002- 504- 79-17
K8KEM 47,040- 480- 49-
W8SJU 45,960- 383- 60-23
K8SVT 35,868- 294- 61-30
N8AA 13,432- 146- 46- 5
K3JT 12,496- 142- 44- 9
W8GS 12,300- 123- 50- 5
WD8IDM 11,610- 135- 43- 7
W8IQ 10,125- 111- 45- 3
NZ8J 7,216- 88- 41-
W8FDN 6,510- 105- 31- 6
WA8RCN 6,230- 89- 35- 4
K3GP 5,984- 88- 34- 5
W8PN 5,250- 75- 35- 5
WB8TCO 3,248- 56- 29- 7
WA8GLF 2,350- 47- 25-12
K8HF 1,800- 36- 25- 2
AF8C 1,480- 37- 20- 7
W8LT (K1LT,K8s ND,RA,KD8NS,
WB8WKB,ops)
181,090- 947- 91-41
KS8S (+ AD8P,KU8E)
174,780- 938- 90-42
KA8HFO (+ KB8AC,NM8Q,WB8YJF)
118,404- 735- 78-40
WB8ZYD (+ WB8s MIP,PIY)
10,336- 136- 38-

West Virginia

K8OQL 59,630- 439- 67-24
KV8S 49,088- 379- 64-17
KD8YY 22,442- 229- 49-15
KC8JH 736- 23- 16- 1

9**Illinois**

KF9D 109,792- 749- 73-24
K9AB 66,776- 491- 68-

K9HDE 52,461- 390- 67-14
WN9NQ 21,360- 178- 60-
NU9R 15,708- 154- 51- 7
K9PPW 11,616- 121- 48- 6
KA9ACS 11,526- 110- 51-
W9KV 4,032- 63- 32- 4
NJ9Q 2,600- 50- 26- 3
W9CA 836- 26- 18-
W9AZ (AK9F,K9s IFO,NR,KA9s PSO,
PWW, KD9RN,W9HBI,WB9HAD,
KA0WTR,ops) 134,400- 816- 80-

Indiana

W9YSX 121,891- 781- 77-20
KA9OKH 104,804- 676- 76-24
WB9CIF 21,930- 215- 51-12
K9HCX 8,684- 78- 44-
W9ERW 2,500- 50- 25- 4

Wisconsin

W9UP (N0BSH,op)
113,472- 788- 72-34
WA1UJU 92,752- 682- 68-24
W9WAQ 80,500- 572- 70-23
NI9C 40,267- 299- 67-14
WA9TZE 20,292- 175- 57-
W9MQZ 19,140- 174- 55-
W9HE 12,600- 150- 42- 6
N9KS 11,956- 122- 49-
W9HR 5,244- 69- 38-
W0AIH/9 (+ K0FVF,KM0O,WA0RBW)
160,844-1009- 79-42

0**Colorado**

K4XU 110,625- 730- 75-18
W0CP 41,138- 307- 67- 6
K0RZ 24,288- 184- 66-15
K0OST 14,300- 130- 55-17
KU7U 7,128- 81- 44- 8
AD0O (+ NR5K) 63,280- 449- 70-20

Iowa

W0EJ 147,498- 935- 78-
KJ0H 51,484- 422- 61-
N0BB 24,308- 206- 59-14
K0SRL 15,300- 150- 51- 8
W0BXR (N2AWE,K9AYK,N9OK,
W9TW, WB9ASF,K0IS,KA0s OVA,
YDQ,KW0J,N0s BFJ,EL,N00G,
W0QJ,WD0DUK,ops)
94,316- 646- 73-30
N0SM (+ K0s JGH,RW,N0DJY,
NR0E,WB0VYV)
94,290- 672- 70-23

Kansas

W0UY 22,040- 190- 58-17
WA0CFZ 12,420- 120- 52-14
N0IN 11,628- 114- 51- 1
W0AWP 8,556- 93- 48-
N0FMR 5,544- 84- 33- 6
W0RT 2,760- 46- 30- 1

Minnesota

K0PK 104,400- 693- 75-24
W0UC 56,848- 418- 68-21
W1GV 26,912- 232- 58-11
KN0V 11,352- 129- 44- 6
W0VB 2,184- 42- 26- 5

Missouri

W0HBH 34,038- 279- 61- 7
NS9B 24,080- 215- 56- 5

North Dakota

WB0O 54,536- 401- 68- 8
KC0UM 208- 13- 8-

Nebraska

KV0I 31,696- 238- 56-18

South Dakota

K0DD (+ K0KX,N0HUN,NS0N,
WA0PEV) 160,720- 994- 80-

VE**Ontario**

VE3KP 94,004- 656- 71-
VE3PN 37,584- 324- 58-12
VE3CUI 32,994- 304- 54-12
VE3NBE 11,310- 145- 39-10
VE3ST 4,830- 69- 35- 2

Manitoba

WA4AAU 4,356- 66- 33-

Saskatchewan

VE5UF 36,595- 280- 65-13
VE5XU 17,384- 164- 53-

British Columbia

VE7FT 23,640- 197- 60-
VE7WO 21,340- 194- 55-

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