

# Results, Ninth Annual ARRL 10-Meter Contest

By Mark Wilson,\* AA2Z and Bill Jennings,\*\* K1WJ

It's 0000Z December 12. Across the U.S. and Canada, amateurs are about to start what is considered by many to be the most enjoyable operating event of the year. Larry, N7DD, has made the final adjustments to his equipment; his rotor indicator says "NE" and that's where it will stay for most of the weekend. Larry has been the big winner for the past few years, and he is out to defend his title as king of the contest. He knows that there will be stiff competition from George, W0UA, who will be at the controls of Colorado superstition K0RF. George has several new antenna configurations this year, and he is hoping to beat Larry for the Phone-only award. Who will win?

Meanwhile, Colorado Contest Conspiracy member W0YK is preparing to attempt to win the Mixed-mode category. Ed has been on the air for a while this afternoon, and he knows he's loud on the East Coast. That's good, because that's where most of his QSOs will come from.

Down in the cw bands, Tom, K5RC, has decided to single op this one on code-only. Tom has won this contest before, so he knows that he will have to stay on his toes to overcome competition from other cw fanatics. Tom has a good signal, thanks in part to his 7-element "Flashlight," up about 80 feet, and plenty of experience; still, winning for the country requires lots of hard work and some luck.

Out in Washington, the crowd at K7RI is preparing for a go at the multiop slot. They've got a couple of big tribanders and a fantastic location. But right behind K7RI is another seasoned crew at K9HMB. These guys have been operating multi-multi in the DX contests under various calls for the past few years. They know that teamwork is essential, especially in spotting multipliers. But they seem to have their act together — they found 163 by the end

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of the contest, a fine total indeed.

The contest gets off to a good start. Larry and George both have their hands full of eastern stations, working 100 QSOs in the first 20 minutes. Poor George can hardly write fast enough; he fills his first 50-QSO log page in seven minutes. There are plenty of rare multipliers on this year, too, including SU, 6W8, 9H4, 9Q5, JT1, 4S7, 9K2, YK, JW, 4U1, ZB2, FO8, H44, PZ and CE0A. Thanks to all of the DX stations who make this contest interesting!

By 0700Z, the U.S. and Canadian stations have worked the last of their ground-wave and scatter contacts, and have headed off to bed. But things are just starting to roll in Europe. G5CMX gets off to a nice start with 4S7MX as



KB0RC, better known as "old milk and cookies" around Hannibal, Missouri, operated K4VX to the number six position in the WVE mixed-mode competition and the top mixed-mode position in the Midwest Division.

his first contact. His next hour is a mixture of European and Asian stations, with a few VK/ZL and African types thrown in for good measure. It isn't until 1100Z that he works AK1A, his first sleepy American.

It's interesting to note that while we consider

## Top Five — DX

Mixed Mode		CW	
Call	Score	Call	Score
UB5IJK	510,708	EA2IA	288,738
G5CMX	508,080	KP4KK/DU2	247,548
4U1ITU	420,864	WP4BDS	208,624
JA7YAA	324,632	PA9LOU	205,588
J11QPU	305,210	JA1YAD	201,110
Phone		Multiop	
Call	Score	Call	Score
KB7IJ/KH2	653,380	HK3A	951,300
DJ3HJ	581,584	XE1MDX	750,656
TG9GI	466,944	HP1XAW	581,462
DL8PC	465,300	LZ1KDP	534,492
JA7OWD	448,240	F6ECI	534,480

## Top Ten — WVE

Mixed Mode		CW	
Call	Score	Call	Score
W0YK	875,238	K5RC	440,300
N7DF	759,200	K3LR	387,090
VE6OU	755,496	N5JJ	381,920
KH6XX	736,786	N4AR	370,080
N6CW	712,378	NF8H	360,580
K4VX	708,834	K6LL7	357,642
WB7FDQ	629,800	N4ZZ	343,612
AH6BK	605,760	N7CW	329,226
WB5VZL	542,624	W5JW	320,896
K8CX	535,670	W1WEF	274,120
Phone		Multioperator	
Call	Score	Call	Score
N7DD	1,016,478	K7RI	900,212
K0RF	897,024	K9HMB	894,055
KM5R	896,584	W7VHB	741,076
K5JA	874,580	A17B	719,190
A5AB	809,784	KC0AT	700,988
AK1A	773,898	W5RRR	699,300
A18J	673,920	K9MWM	675,612
KL7Y	649,498	KB4I	655,620
VE7BTW	628,056	AB0I	632,392
AI8V	606,585	K8III	628,528



The Hudson Division multiop winners at WB2TSY are (l to r): WB2TSY, KD2I, WB2EGI and WB2WIW. WA2PID, the fifth op, isn't in the photo because he's behind the camera.

10 meters to be a band useful only from 1100Z through 0200Z or so, it is actually in use all the time somewhere in the world. Think how strange you'd feel getting up at 0700Z to work the contest, yet that's the time it starts for many of the world's hams.

The 10-Meter Contest is interesting in that it attracts so many different types of amateurs. Looking through the calls of the W/VE participants, you'll see the usual "big-gun" types. But you'll also see hundreds of calls you know have to belong to new hams and "casual" ops. You'll also see many call signs normally found in vhf contests, and others that appear in the latest DXCC Honor Roll listing. The variety of participants is one of the keys to the success of this contest.

The 1981 ARRL 10-Meter Contest was the best in terms of entries received. We have a grand total of 1652 logs listed in the next few pages (518 DX and 1027 W/VE), up from 1540 last year and the 1979 record of 1565. The high level of activity was reflected in the scores in every category. A look at the QSO and multiplier totals will confirm that an awful lot of folks took the time to operate a bit on 10.

The 1981 10-meter contest was the first for a new award. Larry Pace, N7DD, is serious about encouraging activity in this contest, especially in the coming years as the sun spots decline, so he has sponsored a plaque for the highest scoring phone-only station. This year W0UA, operator of K0RF, won the plaque because Larry declared himself ineligible. Larry says he will continue to sponsor the award, so watch the rules for this year's event.

That's about it for this contest. Please note that the scores for the SP stations are from Saturday only. All Polish amateurs were forced to leave the air on Sunday. The 1982 contest probably won't be quite like the last one, but the 10-meter diehards will be in there slugging it out again. It's a bit early to start planning, but try to remember to stop by 10 meters the weekend of Dec. 11-12. It will be worth your while.

## SOAPBOX

I will never forget the activity by the Polish stations in the contest on Sunday (J11ACI). Great help for getting over "key freight" (KA0LCZ/T). I feel pretty good about my score, considering that my antenna is a monoband dipole tacked to my roof at 16 feet (N7CQT). If you are new at the hobby, or feel that your station is not big enough, the 10-Meter Contest is for you (KA8HIB). My high Yagi worked the best on DX QSOs, but the low tri-bander was best on the W/VE "scatter" contacts with the beam generally pointed between NW and NE (W9PNE). The last four hours of the contest were hell . . . trying to watch the 49er football game and work the contest (WD6FYJ). Working all 50 states was the highlight for me (AF1T). The contest is a lot of fun. I do, however, deplore the proliferation of over-driven speech processors. We should bear in mind that a heavily processed signal is harder to copy than a normal one, even though it may be louder (VE3TY). The band was unbelievably short

## DX Continental Leaders

Continent	Mixed Mode	Cw	Phone	Multiop
Africa	—	—	EA8TY	6W8HL
Asia	JA7YAA	JA1YAD	JA70WD	UK0QAA
Europe	UB5IJK	EA2IA	DJ3HJ	LZ1KDP
North America	H18LC	WP4BDS	TG9GI	XE1MDX
Oceania	VK6JS	KP4KK/DU2	KB7IJ/KH2	—
South America	—	PY1VOY	LU3FAN	HK3A

## Division Leaders

Division	Mixed Mode	Cw	Phone	Multiop
Atlantic	K3EW	K3LR	K2ITG	KJ2Q
Central	W9LT	K9TUS	A1RJ	K9HMB
Dakota	KN0V	W0YCR	KB9SI	KB0BU
Delta	W5XZ	N4ZZ	WB5SKQ	N5FG
Great Lakes	K8CX	N4AR	WA4QQV	K8II
Hudson	K2TW	AG2X	W1GD	WB2TSY
Midwest	K4VX	N0TT	KB0PR	AB0I
New England	K1XM	W1WEF	AK1A	AA2Z
Northwestern	K7VIC	KB7G	KL7Y	K7RI
Pacific	KH6XX	N6OP	A16V	K7SFN
Roanoke	K4UWH	K4ABFT	WA4HII	AA4UK
Rocky Mountain	W0YK	W5JW	K0RF	KC0AT
Southeastern	N4KG	W4VQ	NU4Y	KB4I
Southwestern	N6CW	NF6H	N7DD	W6VL
West Gulf	WB5VZL	K5RC	K5JA	WSRRR
Canadian	VE6OU	VE4YY	VE7BTW	VE3TY



Gastou, XE1GBM, is one of the operators of XE1MDX, the number five multiop station worldwide, in this contest.



Gay, WB5SKQ, turned in the top phone score in the Delta Division.

on Saturday afternoon; therefore, the rate was unbelievably high (KB0RC/K4VX/0). I can remember when I thought that WAS on 10 meters was impossible. This year I made it in one weekend. (W51U). Nice to see so much activity on 10 meters. Great contest with only a minimum amount of agitation (WD5EWD). I'm on pins and needles to see if I beat any other phone-only scores (K7CU). My logs contain the new world's record for the number of dupes in a 19-hour period (80). I gave up on duping the log during the contest last year — obviously many others did too. Would anyone like to donate a personal computer complete with log-checking program? It would help speed up my QSLing also (WB1GQR). Conditions were so good that I didn't use my linear (AA6EE). I can hardly believe that I worked CE0AE on the first call, while he was calling "CQ" and getting no takers (K1NH). Too many ops either have poor receivers or don't listen for weak signals. Could have had another five or six multipliers if short-skip and backscatter stations that I heard Q-5 would have listened up for me rather than pausing only long enough for breath before continuing their unanswered strings of "CQ Contest!" (KS2G). When checking my contest entry, I was disappointed to find so many dupes (75 in 718 QSOs). My method of operation is to try to hold a frequency while working the pileup.

Therefore, it is the stations calling me who are causing the dupes. This problem has increased over the last few years. Perhaps an article on *QST* by a leading contest operator on various dupe sheet methods would help? (G3PVA). There once was a contest from Bly, Who cried, "QRL! QRM! . . . QSY!" And when the pileup did, it left just a Lid, alone and wondering why (W7TC). We worked all states, including ND and KH6 . . . We think that daylight at this time in December is too short to work the Pacific area from Europe. It might be better to have this contest in February or, better yet, in the first half of April (I4JMY).

## FEEDBACK

Refer to page 73 of July 1981 *QST* for the following correction to the 1980 10-Meter Contest. W2VJN (WA2ZKY, op.) should have been listed in the Northern New Jersey Section, not the Southern New Jersey Section. This makes him the top cw score in NJN and in the Hudson Division.

1980 November Sweepstakes. See page 90 of May 1981 *QST* for the following correction. KB2M was not a participant in the K2XR multiop station on phone in the 1980 SS.

## Scores

DX scores are listed by continent/country, alphabetically according to prefix. U.S./Canadian scores are listed by ARRL Section within a call area. Single-operator mixed-mode scores (denoted by the letter A) are listed first, followed by single-operator cw-only scores (indicated by the letter B), then the single-operator phone-only entries (shown as the letter C) and finally the multioperator scores in descending numerical order (shown as "D" stations).

Line scores show the call sign used; operator(s), if any; total score in points; number of QSOs; number of multipliers and a letter that denotes the entry class.

DX	Asia	Africa	Europe	North America	Oceania	South America	Continent	Mixed Mode	Cw	Phone	Multiop
	HMSX	JA7YAA (JR7OMD, opr.)	J1A0J	22,220- 202- 55-A	JA1DFQ	67,562- 401- 83-B	JH7RZW	5412- 80- 33-B			
	23,598- 207- 57-C	JA1AT	21,216- 136- 78-A	JA9CWJ	84,476- 398- 81-B	JJ1OSP	4556- 65- 34-B				
EA8TY	32,432-1206-124-A	JA1SGU	17,818- 149- 59-A	JH7UJN	53,700- 356- 75-B	J47KM	4526- 70- 31-B				
EA8ZI	228,132- 622-103-C	JA3SRB	16,988- 134- 62-A	JADCN	51,040- 316- 80-B	J1CMA	4526- 75- 29-B				
6W8HL (+ 6W8DS)	305,210-1327-115-A	JH0JD	16,200- 126- 62-A	JR3DN	46,472- 34- 66-B	J1AOG	2640- 36- 18-B				
508,326-1911-133-D	163,484- 824- 98-A	JAA4KD	5848- 88- 34-A	JJ1HEY	37,772- 268- 71-B	JABRYL	1584- 44- 18-B				
9H4G	145,036- 712-101-A	J1A0HP	3200- 50- 30-A	JAA2BP	36,432- 278- 86-B	JH1CNN	1152- 36- 18-B				
	125,580- 900- 91-A	J7E7CT	2392- 52- 23-A	JA1OP	21,924- 189- 58-B	JR1AHH	442- 15- 13-B				
	62,856- 365- 78-A	JG1WRN	1292- 52- 19-A	JH3MWB	18,488- 189- 54-B	JA70WD	448,240-1724-130-C				
	JH2JW	JA1YAD (JE2QIZ, opr.)	201,110- 845-119-B	JABABG	13,580- 194- 35-B	J11OQI	258,944-1158-112-C				
	57,720- 365- 76-A	JA1YAD	140,812- 743- 94-B	J7B7Z	11,868- 137- 43-B	JH1AGU	255,600-1085-120-C				
	43,050- 287- 78-A	J1A1CI	124,432- 707- 88-B	JH3AIU	10,148- 116- 43-B	JF1JLW	64,428- 413- 78-C				
	41,712- 253- 79-A	J1A7FWR	77,448- 461- 84-B	J2ASAP/1	8772- 102- 43-B	JM1NKT	44,082- 279- 79-C				
9Q5FL	63,700- 350- 91-C	JH1MTR	25,080- 219- 57-A	JH2QAY	5472- 72- 38-B	JH1UUT	38,340- 270- 71-C				





KL7KD (+ KL7KE)	66,816- 512- 64-D	N7BES (+ KA7es BRR, GKW, WTGYZ, WB7VNY) 338,776-1598-108-D KC7KI (+ KA7es CVT, CZV) 43,010- 238- 85-D	KA8DAN (+ KC8RHY, N8BDI) 95,880- 470-102-D N8AJN (+ WD8NHQ) 39,360- 240- 82-D	KI9J 81,120- 493- 80-B KAOGN/N 9216- 104- 36-B K0RF (WB7UA, opr.) 897,024-3072-148-C	WB7TCF (+ KB7WZ, NCLO, WD1HSP) 66,584- 405- 82-D
<b>Arizona</b>		<b>Wyoming</b>	<b>West Virginia</b>	<b>Nebraska</b>	
WB7FDQ 629,800-2336-134-A WT7FGT 331,684-1639-101-A KJ7K 281,380-1490- 95-A WA7KLK 197,280-1096- 90-A KN7N 106,780- 732- 74-A WA7YUL 7992- 104- 36-A KL6LL7 357,842-1517-111-B NC7CW 329,226-1460-111-B KB7HW 151,740- 90-B W7ZMD 111,708- 708- 79-B NT7CS 32,378- 509- 68-B WA7NLX 82,486- 491- 84-C WT7CQO 82,486- 491- 84-C KT7W 82,336- 496- 83-C KCTV 6180- 77- 40-C W7KAJ 5320- 78- 35-C WB7DQD (KC7TV, NT7CS, WA7NLY, WB7ASR, oprs.) 316,026-1818- 97-D KB7KZ (+ WB7VON) 103,512- 658- 76-D	KG7Z 139,314- 732- 93-A WB7CFL 98,064- 677- 72-A KB7M 39,960- 369- 54-A KC7CK 30,738- 226- 68-A N7CG 138,024- 852- 81-C KB7WN 6020- 88- 35-C KB7W (+ N7CYZ) 194,532- 118- 87-D	KB8FJ 97,572- 519- 94-A NBBGV 102,240- 639- 80-B KB8C 44,840- 279- 70-B KBQQL 14,000- 122- 56-B KB8W 4484- 87- 24-B WA8HII 311,408-1207-128-C KZ8AE 52,234- 287- 91-C NBBDD 41,888- 239- 88-C WB8EN 10,878- 111- 49-C WD8CZA 10,414- 127- 41-C KC8NRR 3534- 57- 31-C N8APA (+ N8AWB) 155,952- 722- 108-D	KA0FPJ 90,848- 666- 68-C WD0EHI 46,200- 330- 70-C WB1ZV 21,244- 226- 47-C KK0L 17,816- 131- 68-C KA0LKB 17,444- 178- 48-C KA0FXH 9520- 140- 34-C WB8SEQ 6724- 82- 41-C KA0AT (+ K0CCL) 700,986-2717-129-D K9MMW (+ K9UW, WM7TG, WD4MSM) 875,612-2277-126-D	K0SCM 60,006- 411- 73-B KA0IRW/T 1836- 45- 17-B WB8SS 357,120-1395-128-C KB0YK 6882- 111- 31-C WB8AXE (+ AA8W, KB7HR, WD1HBD) 528,838-2222-119-D	
WB7FDQ 629,800-2336-134-A WT7FGT 331,684-1639-101-A KJ7K 281,380-1490- 95-A WA7KLK 197,280-1096- 90-A KN7N 106,780- 732- 74-A WA7YUL 7992- 104- 36-A KL6LL7 357,842-1517-111-B NC7CW 329,226-1460-111-B KB7HW 151,740- 90-B W7ZMD 111,708- 708- 79-B NT7CS 32,378- 509- 68-B WA7NLX 82,486- 491- 84-C WT7CQO 82,486- 491- 84-C KT7W 82,336- 496- 83-C KCTV 6180- 77- 40-C W7KAJ 5320- 78- 35-C WB7DQD (KC7TV, NT7CS, WA7NLY, WB7ASR, oprs.) 316,026-1818- 97-D KB7KZ (+ WB7VON) 103,512- 658- 76-D	8	Michigan	9	Illinois	VE
<b>Idaho</b>		K0BT 381,762-1501-127-A KABHIB 114,536- 536-103-A KC8JX 84,360- 379-111-A KCBNF 77,040- 380-107-A K0BU 58,800- 386- 75-A K0CJ 40,488- 302- 67-A WA9GJD 30,000- 230- 65-A K9VXG 29,682- 230- 64-A WB8GJ 20,160- 182- 60-A WBTWJ 4128- 83- 24-A K9MPF 122,550- 95- 8-B KBSIA 47,120- 310- 76-B KA8JBK/JN 41,210- 287- 65-B WB8SK 37,682- 226- 83-B KABEBG/N 26,760- 199- 80-B KBD 16,120- 154- 52-B K9QWQ 10,998- 113- 47-B KABIIIN 8432- 102- 34-B N8CLWL/T 3904- 52- 32-B KB8BL 152,308- 754-101-C W8FGA 135,488- 639-108-C K0BM 79,304- 431- 92-C NC8XX 57,024- 324- 88-C K8KUH 25,312- 226- 58-C WD8INFX 24,388- 210- 58-C K8ICL 20,740- 184- 51-C K9V 22,424-1158- 94-C KT7GQI 15,322- 184- 73-C K4TDP4 15,322- 183- 47-C WA7UWC 8730- 97- 45-C N7CTU (+ K7AVB) 79,884- 634- 63-D	K9KT (+ KQ8R) 80,776- 439- 92-D WB8SP (WB8e BMX, III, oprs.) 23,790- 195- 61-D	KF4Z 33,394- 276- 59-A KB9VC 7280- 102- 35-A N9EB 95,978- 508- 93-B KJ0D 57,540- 410- 70-B WB7YBV 41,072- 302- 68-B K9LCI 40,950- 293- 85-B WB8UCP 19,504- 181- 53-B KA0KCM/T 7000- 100- 28-B KA0IFG/N 5616- 108- 26-B KB9PR 445,008-1752-127-C W8OPD 178,138- 710-123-A A9DE 182,076- 679-118-A WB8WJ 23,504- 488- 98-A KA8QJF 50,096- 247-101-A WB9QWM 35,424- 246- 72-A WB9REC 10,300- 101- 50-A WB9YY 7400- 74- 50-A K8NN 182,020- 939- 95-B WB9DHC 122,496- 696- 88-B WB9PNE 87,032- 461- 92-B WB9ADX 28,288- 207- 64-B WA9MRU 20,178- 174- 57-B WB9HPG 12,408- 127- 47-B WB8EGW 11,524- 134- 43-B KABAKAN/T 2016- 31- 21-B WB9FSD 18,300- 10- 10-B A8I 673,920-2160-156-C WB9V 157,178- 721-108-C WB9WML 10,000- 16- 10-C WB9AW 11,040- 487-120-C WB9BL 91,350- 435-105-C AD9K 48,818- 317- 77-C WB9J 45,784- 388- 59-C WB9NRS 29,784- 204- 73-C K9IJM 16,418- 152- 54-C WB9IFS 12,996- 138- 46-C K9AHAO 7980- 105- 38-C K9PB9 3468- 51- 34-C KAB9DW 18,260- 25- 16-C K9HMB (+ K9s GL, PW, RS, WB9TY) 884,055-2738-183-D	VO1AW 62,478- 351- 89-A VO1QU 12,878- 136- 47-B
<b>Montana</b>		W8FGA (+ AG8U, KB8EX, KB8s DT, QF, W8ALV, WB8ICK) 305,664-1194-128-D WB8BUO (+ KAB8PP, WB8CIN, WN8PEE) 271,860-1182-115-D	AJ9D (+ N9AEJ, WB8DFEN) 81,320- 426- 95-D WB8UFH (+ WB8e ZD, ZM, QOI) 71,100- 395- 90-D	K9HMB (+ K9s GL, PW, RS, WB9TY) 884,055-2738-183-D	Newfoundland
<b>Nevada</b>		WB8BUO (+ KAB8PP, WB8CIN, WN8PEE) 271,860-1182-115-D	AJ9D (+ N9AEJ, WB8DFEN) 300,462-1175-127-D	K9HIB (+ KA0MFN) 18,880- 180- 59-D	South Dakota
WA7CWM 266,630-1465- 91-A WT7BX 46,176- 298- 78-A WA7UEC 185,266-1078- 83-B KA7GXOIN 13,440- 121- 48-B WB7VHV 41,616- 289- 72-C WT7JK 4104- 57- 36-C K7TSFN (+ WA7KNI) 573,426-2331-123-D	WB8SPW (+ KB8PP, KB8K, KB8s DT, QF, W8ALV, WB8ICK) 305,664-1194-128-D WD5RBW (+ KB8PP, KB8K) 271,860-1182-115-D	WB8WUH (+ WB8e ZD, ZM, QOI) 81,320- 426- 95-D	WB8UFH (+ WB8e ZD, ZM, QOI) 71,100- 395- 90-D	WB9CA (+ N9AIB) 73,130- 353-103-D K9CM9 (+ KB8s DT, QF, W8ALV) 68,018- 261- 88-D	Quebec
<b>Oregon</b>		WB8BUO (+ KB8PP, WB8CIN, WN8PEE) 271,860-1182-115-D	WB8UFH (+ WB8e ZD, ZM, QOI) 71,100- 395- 90-D	WB9CA (+ N9AIB) 73,130- 353-103-D K9CM9 (+ KB8s DT, QF, W8ALV) 68,018- 261- 88-D	Kansas
WB7QYI 307,518-1437-107-A WT7XN 271,440-1555- 87-A WT7GUR 38,088- 275- 69-A KAT7DX 15,088- 164- 48-A KB7MO 175,880- 971- 90-B W7TC 95,772- 694- 69-B KA7FTS 30,848- 234- 64-B KAT7DUIN 9240- 3- 35-B W7TRFO 173,830- 895- 97-C WB7VUF 128,820- 878- 95-C WB7SRU 111,900- 565- 55-C WT7MOJ 93,870- 565- 55-C K7TM 79,200- 565- 55-C W7AHZ 50,224- 292- 86-C K7TF 29,280- 244- 86-C WB7TEEI 18,834- 129- 73-C WT7WBH (+ N7ZZ, W7TR) 741,076-2786-133-D	WB8ALG 213,248- 879-119-A WB8DBTU 149,584- 699-107-A WB8NFS 115,648- 547-104-A WB8MOV 95,180- 381-122-A K8FK 82,752- 430- 96-A WB8ORV 79,968- 408- 98-A AK8O 64,844- 377- 88-A WB8UPH 63,492- 406- 78-A AG8J 33,264- 528- 63-A WB8EX 21,640- 380- 63-A WB8PDT 20,000- 250- 41-A WB8NPF 12,144- 122- 48-A N8CUQ 8180- 118- 34-A K8MR 4692- 69- 34-A WB8TN/M8 4032- 55- 36-A WB8FN 208,864- 972-107-D WA8SBC (WB8BPH, opr.) 136,850- 805- 85-B	WB8DNL 295,880-1131-130-A WB8ALG 213,248- 879-119-A WB8DBTU 149,584- 699-107-A WB8NFS 115,648- 547-104-A WB8MOV 95,180- 381-122-A K8FK 82,752- 430- 96-A WB8ORV 79,968- 408- 98-A AK8O 64,844- 377- 88-A WB8UPH 63,492- 406- 78-A AG8J 33,264- 528- 63-A WB8EX 21,640- 380- 63-A WB8PDT 20,000- 250- 41-A WB8NPF 12,144- 122- 48-A N8CUQ 8180- 118- 34-A K8MR 4692- 69- 34-A WB8TN/M8 4032- 55- 36-A WB8FN 208,864- 972-107-D WA8SBC (WB8BPH, opr.) 136,850- 805- 85-B	WB9NIX (+ W3EP3) 133,400- 575-116-D N9ACD (+ AE9R, N9s CRW, SF) K9LMK, WB8s AMI, IV, WD8J/KL) 80,826- 440- 91-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	Ontario
<b>Ohio</b>		WB8ALG 213,248- 879-119-A WB8DBTU 149,584- 699-107-A WB8NFS 115,648- 547-104-A WB8MOV 95,180- 381-122-A K8FK 82,752- 430- 96-A WB8ORV 79,968- 408- 98-A AK8O 64,844- 377- 88-A WB8UPH 63,492- 406- 78-A AG8J 33,264- 528- 63-A WB8EX 21,640- 380- 63-A WB8PDT 20,000- 250- 41-A WB8NPF 12,144- 122- 48-A N8CUQ 8180- 118- 34-A K8MR 4692- 69- 34-A WB8TN/M8 4032- 55- 36-A WB8FN 208,864- 972-107-D WA8SBC (WB8BPH, opr.) 136,850- 805- 85-B	WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	VE3Y
<b>Indiana</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	VE3HQV (+ VE3KPL) 107,352- 494-108-D	Manitoba
<b>Minnesota</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	VE3JHX (+ VE3LQJ) 75,894- 410- 91-D	Saskatchewan
<b>Ohio</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	Alberta
<b>Indiana</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	British Columbia
<b>Wisconsin</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	Check Logs
<b>Wisconsin</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	Check Logs
<b>Colorado</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320- 387- 78-B WB9WZ 56,312- 261- 68-B AG8S 18,260- 166- 55-B WB9A 12,688- 122- 52-B WB9TY 45,520-1605-142-C WB9PFT 14,720- 108- 70-B K9BJD 127,400- 850- 98-C WB9FOL 96,280- 415-116-C K9JG 77,834- 419- 93-C WB9WJI 68,200- 341-100-C WB9WAZ 51,744- 308- 84-C WB9NZW 40,662- 251- 81-C WB9TY 12,688- 122- 52-C WB9W 10,680- 106- 75-C WB9C 14,382- 141- 51-C WB9ZUR 5248- 82- 32-C K9BBU (+ KA0ZIN) 405,838-1549-131-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	WB9N ( + KA9GDH, N9s DT, QF, W8HWTY) 353,280-1270-138-D	Check Logs
<b>Wyoming</b>		WB9WLT 426,474-1652-129-A K9CFC 31,668- 182- 87-A WB9DVA 8034- 102- 39-A K9TUS 228,185-1040-107-B WB9XD 80,070- 102- 39-B WB9DVO/D 89,132- 431- 76-B WB9WV 61,320-			