

# Results 2009 Michigan QSO Party

<http://www.miqp.org>

Sponsored by the Mad River Radio Club

By Dave Pruett, K8CC



The ARRL declared 2009 to be the "Year of The State QSO Party" and Michigan did its part. Despite challenges within the state brought on by the world-wide economic crisis and the potential impact on activity, 2009 turned out to be another successful year for the MiQP. Logs received were up slightly (303 entries vs. 300 last year). Reported QSOs dropped slightly (39,042 vs. 41,666 last year) with 3,577 unique callsigns appearing in those logs.

The table below in the next column shows the breakdown of QSOs from the contest. It reveals that for the first time, 80M passed 40M for the title of "most important MiQP band". The increased activity on 80M appears to have pulled QSOs from 40M, particularly during daytime. However, 20M (primarily a daytime band) bucked that trend, showing a small increase vs. 2008. Activity on both 15M and 10M was virtually non-existent, the solution for which is a generous dose of sunspots and an increased emphasis on high band activity times in the future.

	80	40	20	15	10	total
CW	6359	7607	2645	2	3	16616
SSB	10323	8016	4079	4	4	22426
Tot	16682	15623	6724	6	7	39042
Pct	43%	40%	17%	.02%	.02%	-
Vs 2007	-2.1%	-14%	+5%	-43%	-37%	-6.3%

One interesting observation from 2009 is that the total number of phone QSOs was essentially the same vs. 2008. The drop in CW QSOs is certainly a disappointment for those of us who relish CW operating, and may be largely attributable to the drop in mobile activity this year, in itself likely attributable to the current low sunspot conditions and the economic malaise within the region. It is interesting to note that all five MiQP bands had more reported QSOs on phone than CW in 2009, while in 2008 phone's advantage all came from 75M. In the opinion of this author, this shift is evidence that the MiQP is continuing to attract newer hams (who may tend to operate primarily on phone).

For the first time in ten years, we regret to report that not all 83 MI counties were active during the contest, as no QSOs were reported with *Benzie*. The five most active counties were *Oakland*, *Washtenaw*, *Wayne*, *Lenawee* and *Kent*. These are the same five counties which were most active in 2008, except that *Wayne* and *Kent* swapped the 3rd and 5th positions from last year. The five least active counties were *Cheboygan*, *Manistee*, *Oceana*, *Leelanau*, and *Benzie*. *Cheboygan* hasn't been too rare in recent years thanks to operations by the K8MQP team, but it's rarity jumps when they stay home.

From the out-of-state areas, QSOs were reported with 58 of the 64 geographic entities on CW, 60 of 64 on SSB and 60 of 64 overall. These numbers are down slightly from last year, as no QSOs were reported with four entities: *Labrador*, *Northwest Territories*, *Nunavut* and *Yukon Territories*. The five most active out-of-state areas were *Pennsylvania*, *California*, *Georgia*, *Florida*, and *Ohio*. Most of these are repeats from 2008, but with *California* jump-

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ing from 5th to 2nd, and Georgia slipping in at #3 (bumping Minnesota).

## County Activity

MiQP reached another milestone this year in that 51 counties were represented by fixed station operations (the previous high was 47). Also worthy of note are the two Michigan counties that saw their first-ever recorded fixed station entries: **N9FN** operated by the two "FN Daves" (N9 and K9) from Allegan County (after knocking off Cass County last year), and **KC8QZG**, operated by Dave, 'QZG along with Paul, AB8LX and Sam, N8ATS from Luce County. Our thanks to these stations for making their rare counties easily workable this year. This leaves only two Michigan counties which have never had a fixed station MiQP entry reported: **Ontonagon** and **Schoolcraft**.

## Records

In the Michigan Multi-Operator/Multi-Transmitter category, station **K8XXX** set a new record of 726,525 points, bumping their existing record of 692,464 points set last year. Be sure to read the multi-multi section of this report to learn more about this tremendous score. In the Michigan Multi-Operator/Single-transmitter category, the crew at **K8EPV** set a new record of 187,000 points, beating the old record set by **W8PIF** in 2005 by 71%. In the Emergency Operations Center (EOC) category, the team at **W8OAK** almost tripled their old record set last year. And in the realm of Michigan single-operators, **Ian, K8MM** set a new QRP record at 96,480, beating his previous mark set just last year by 41%.

In addition, 38 new fixed station and 10 mobile records were set at the county level. We congratulate all of the record setters for the effort they put into the 2009 MiQP.

## Youth Activity

Again this year, we like to recognize activity by young hams during MiQP. In the next column is a photo of the **W8PIF** operation from the station of Jim, **KS8O** in Menominee county. Most of the operation was

run by **W9JTL** and 4 youths ages 11 to 14 who Jim is sure became hooked on contesting. Several of the young ops are part of the Young Amateur Contest Ham Team (YACHT) (<http://www.wd8dx.com/yacht.html> or see the March issue of CQ magazine). These new ops were appreciative of the patience shown to them during some of the contacts. A total of fifteen people participated. Brats and burgers were done on the grill by an 11 year old, Hunter (**K8MBI**) who is now designated their official chef for contests, but he is also a great contester. The group also had a VE session during MiQP with a successful upgrade to General and a new Tech license earned. They ran three rigs with **N1MM** logging software. Most of their QSOs were on phone, but Jim reports that by next year, a couple of the kids will be ready to work CW to bolster the score.



Tyler/**KC9FKE**, Hunter/**K8MBI** and Neil/**KC9MLD** at **W8PIF**

## Acknowledgements

Once again, this editor would like to acknowledge that producing these MiQP results is not a one man show. Our thanks go to **Ron, W8RU** who transcribed the 40+ paper logs received, to **Mike, WD8S** who manages the certificates and plaques for the MiQP awards program, and to **Everett Jackson, WZ8P** and the team at Franklin Printing in Zanesville, OH for their assistance in creating the beautiful MiQP plaques.

To volunteers like these, to the club newsletter editors who publish MiQP announcements, to MiQP Communications Manager **Mark Hinkleman, NU8Z**, to Michigan ARRL Section Manager **Dale Williams, WA8EFK** and Great Lakes Division Director **Jim Weaver, K8JE** who lend

their support, and to the 3,577 stations that appeared in one or more MiQP logs, we say thanks for your continuing support of the Michigan QSO Party.

At the end of this report, you'll find a list of the MiQP plaques and the clubs and organizations that sponsored them. The MiQP committee thanks these sponsors for their generous support of MiQP.

As these results are coming out in early August, don't forget to look for many familiar MiQP call signs during the **Ohio QSO Party, August 22-23, 2009**, also sponsored by the Mad River Radio Club. Come join in the fun!

And now, on to the results.

## Single-Operator

### MI High Power

Call	Cty	QSOs	Mults	Score
N8SS	WAYN	866	180	216,684
K8AO	DELT	754	148	125,356
NU8Z	LENA	431	133	76,874

It's four in a row for the high power single op category winner **Earl Morse, N8SS**, operating from Wayne county who came within 10% of matching his record-setting score from 2008. Like last year, 80M was his big band providing him with 42% of his QSOs. He deserves the title of "Mr. Consistency" as his hourly rates were five 80s, two 70s, three 60s and two 50s. **N8SS's** QSOs were split 39%/61% between CW and phone. **Earl** worked 51 Michigan counties and operated the full contest period.

In second place was a station who over the years has established himself as one of the leading single-ops from the Upper Peninsula - **Duane, K8AO**, operating from Delta County. While **N8SS** experienced steady rates throughout the contest, it was more "feast or famine" for

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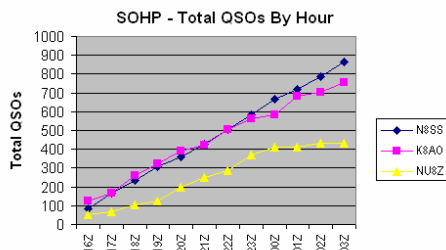


Earl, N8SS - Wayne County

Duane who jumped out to the early lead with 123 QSOs in the first hour along with two hours in the 90s, but also had to endure three slow hours later in the teens/20s/30s. Duane's log heavily favors phone with 88% of his QSOs and 70% of his mults. Of the top three single-ops, he had the best luck on 40M with 284 QSOs Duane worked 55 Michigan counties and operated 11:11 of the contest period.

In third place was the MiQP Communication Manager - **Mark, NU8Z** operating from Lenawee County. Mark is no stranger to the MiQP single-op arena, but was handicapped this year by limited operating time - he only operated seven hours of the contest but even so had a well-balanced band breakdown of 139/147/145 QSOs on 80m/40m/20m respectively. 66% of Mark's QSOs and 58% of his mults were on phone and he worked 35 Michigan counties during the contest.

The graph below shows the progress made by each of the top three high power single-ops as the contest ran on. K8AO's big 123 hour at the start got him the QSO lead early, but N8SS's consistency brought the two stations dead even at the end of the 7th hour. K8AO had two slow hours (21Z and 00Z) which allowed N8SS to sneak ahead. NU8Z got off to a slow start, then matched rates with N8SS and K8AO through the middle



of the contest, but was largely QRT after 00Z.

### MI Low Power

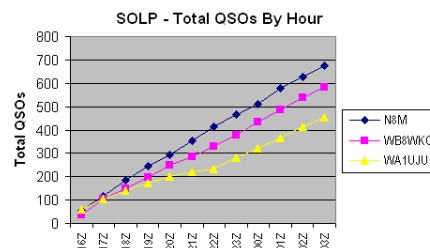
Call	Cty	QSOs	Mults	Score
N8M (op.K2KW)	WASH	674	177	175,761
WB8WKQ	LAPE	584	164	136,776
WA1UJU	HOUG	453	132	101,508

The winning low power score from N8M originated from the K8CC contest station in Washtenaw County, operated by **Ken Silverman, K2KW** who traveled in from his home in Ohio just for the MiQP. Ken's log is almost evenly split between phone (53%) and CW (47%) with a good balance between bands: 212/236/226 on 80/40/20. He didn't have any really big hours, but was very consistent with a best hour of 68 QSOs and but his worst still had 47 QSOs. Ken worked 50 Michigan counties, and was active the entire contest period.

This year's second place low power finisher also took home the plaque as the top MiQP Rookie, and that's **Jeff, WB8WKQ** operating from Lapeer County. His log is biased mildly towards phone (57%) in terms of QSOs and about the same for multipliers. In terms of QSOs/band, Jeff's had more QSOs on 80M than N8M (291), but came up short on 20M with only 59. His slowest hour was the first hour with 37 QSOs, but he followed that up with his best rate of 68 QSOs during the 17Z hour. Jeff operated the full contest period, and worked 51 different Michigan counties.

In third place was **Glen, WA1UJU** from Houghton county, reprising the same finish from last year. Glen's QSO breakdown is predominantly CW (70%) but with a very close balance on multipliers between modes. His band breakdown looks a lot like WB8WKQ's; 80M was his best band, followed closely by 40M, but with only 33 QSOs on 20M. His best hour was at the beginning of the contest (60 QSOs), but he had two slow hours in the middle during 21-22z. Glen left about 45 minutes of operating time on the table, but still wound up working 46 Michigan counties

The graph above shows the progress made by each of the top three low power single-ops as the contest ran on. For the first two hours, all three stations ran close together, only separated by 11 QSOs at the end of the 17z hour. After that, N8M's consistently better rates allowed him to slowly pull away from WB8WKQ, while WA1UJU's mid-contest slow period from 21-22z dropped him behind Jeff.



### MI QRP

Call	Cty	QSOs	Mults	Score
K8MM	GENE	416	134	96,480
K8NWD	OAKL	244	112	43,792
KT8K	WASH	244	77	36,575

The top MI single-operator QRP entry finished in the same spot last year. **Ian Hill, K8MM** operating from Genesee county, took what he learned last year and wound up beating last year's score by 40% to win and set a new record for the category. Ian's log is mostly 80 meters (55%) and mostly CW (73%). His best hour was 00Z with 51 QSOs and his slowest was 19Z with 20 QSOs. Ian was active the entire contest period, and worked 52 Michigan counties.

The second place QRP station also



Ian, K8MM - Genesee County

reprised his 2008 finish, and that's

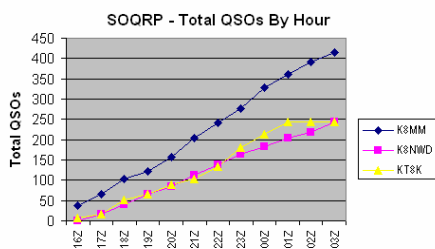
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**Tim, K8NWD** from Oakland county. His breakdown is very similar to K8MM; lots of 80M, lots of CW, and a tie on 20M with 38 QSOs. His best hour was 21z with 28 QSOs followed by 27 QSOs the next hour. Tim missed a little over an hour of the contest while putting 42 Michigan counties into his log.

The third place QRP station is another Tim; that is Tim, **KT8K** operating from Washtenaw county. The two Tim's finished in a tie on QSOs, with KT8K having a higher percentage of two point CW QSOs. However, KT8K couldn't match K8NWD's multiplier total, due to a shortage of mults on phone. KT8K's best rates were better than K8NWD's best, with four hours in the 30s. However, KT8K only operated 9:30 of the contest, which offset this rate advantage. He still worked 30 Michigan counties.

The graph below shows the progress made by each of the top three QRP single-ops as the contest ran on. K8MM had the best start, and with consistent rates he maintained the QSO lead throughout the contest. Both K8NWD and KT8K had slow starts and after five hours were only six QSOs apart. As darkness fell, KT8K edged ahead of K8NWD, but gave away that lead in the last two hours.



### Non-MI Eastern/Central Region

Once again, the Eastern Region, Non-MI Single Operator category was won by a station from the northeast

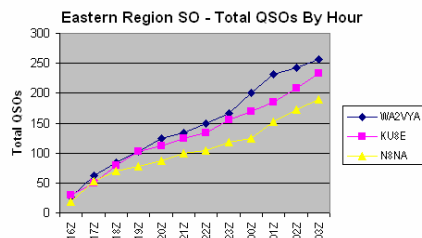
Call	Location	QSOs	Mults	Score
WA2VYA	NJ	256	96	36,096
KU8E	GA	233	99	36,036
N8NA	DE	189	79	22,673

part of the country. with **Frank Wid-**

**mann, WA2VYA** from New Jersey as this year's winner. Frank's log is entirely 80M and 40M, with most (60%) of his QSOs on 40M and close to a 50/50 split between phone and CW. His best hour was 35 QSOs during the 17Z hour and his slowest was 10 QSOs during the 21Z hour. Frank ran high power, worked 64 different Michigan counties and operated the entire contest period.

In second place, and only sixty points behind, is a former category winner and longtime MiQP participant - **Jeff, KU8E**, operating from Georgia. Jeff's log slightly favors CW (56%) with most of his QSOs on 40 (55%). His best hour for rate was 18Z with 30 QSOs, and his slowest were 20Z and 22Z with 9 QSOs each. Jeff led all of non-MI single-ops in terms of working different Michigan counties with 67. He was active the entire contest period and ran high power.

**Karl, N8NA** operating from Delaware grabbed third place. Karl is a former Michigander, operating as WA8ZAV before moving to Delaware several decades ago. Karl's log emphasizes 40M (69%) and was almost even with KU8E on 80M but only with two QSOs on 20M. Overall, his QSOs and multipliers were almost evenly split between modes. Karl was active throughout the contest period, although he only logged 6:36 of operating time punctuated by short breaks. He worked 54 Michigan counties while running low power.



The graph above shows the progress made by each of the top three eastern region single-ops as the contest ran on. The three leaders were neck-and-neck through the first three hours of the contest, but N8NA's rate slowed and he dropped back. WA2VYA and KU8E kept at it neck and neck until Frank built up a lead as darkness fell. KU8E made up

ground during the last two hours but ran out of time.

### Non-MI Mountain/Pacific Region

Call	Location	QSOs	Mults	Score
KO7X	WY	174	75	21,825
VA7RN	BC	115	65	13,000
N6MU	CA	100	71	11,999

Out west, it was **Alan Brubaker, KO7X** from the rare state of Wyoming taking the top spot. Alan, active in contesting as K6XO many years ago, has entered the MiQP before, but this is the first time he's taken the top spot. Alan's log is heavy on CW (67%) and, as one would expect from a western station in MiQP, is largely 20M and 40M. His best hours of the contest were the first two, with 30 and 33 QSOs respectively. While Alan was active throughout the contest period, as things got slow later in the contest he took some breaks and in the end accumulated 10:37 of operating time. Alan ran high power and worked 53 different Michigan counties during the contest.

For the first time in the modern MiQP era, we welcome a Canadian station into a MiQP winner's box. From the far west end of Canada (which is a long way from Michigan), we have the second place Mountain/Pacific region single-op finisher **Les, VA7RN** operating from the province of British Columbia. Like Alan, Les is a newcomer to the top scores box, but is not a newcomer to MiQP. Also like KO7X, the VA7RN log is heavy on CW (74%) but even more reliant on 20M (64%). Les was active throughout the contest period, and made at least one QSO in each hour with his best rates at the start of the contest. But like Alan he took some breaks later in the contest when things got slow and in the end accumulated 9:39 of operating time. Les led all of the western region low power single-ops, while working 51 different MI counties.

In third place Mountain/Pacific region is a former winner of the category, that is **John, N6MU**, operating from California. 94% of John's QSOs

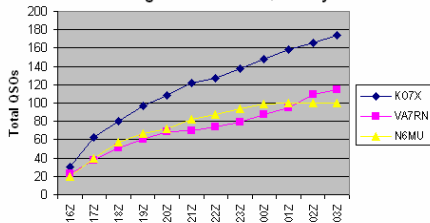
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came on 20M, and 69% on CW. John operated 7:30 of the contest, with some off times during the middle and was QRT for the last three hours. He was another one of the top scores running low power, and led all California entries regardless of power. John worked 51 unique Michigan counties.

The graph above shows the progress made by each of the top three western region single-ops as the contest ran on. All three stations were on 20CW at the start, and KO7X jumped out to a big lead early, per-

Western Region SO - Total QSOs By Hour



haps because running high power made QSOs easier in difficult condx. VA7RN and N6MU ran neck-and-neck until 21Z when N6MU pulled ahead, then VA7RN took the lead back as N6MU went QRT for the last three hours. KO7X was able to make better use of 40M than either VA7RN or N6MU later in the contest, which contributed to him being able to maintain his QSO rate.

### DX Stations

This year's DX single-op winner is another station who is no stranger to the MiQP top score box. For the third time in the past four years, the top

Call	Cty	QSOs	Mults	Score
CU2JT	CU	64	39	4,992
OK1AOV	OK	20	13	520
LY2ZZ	CU	4	4	32

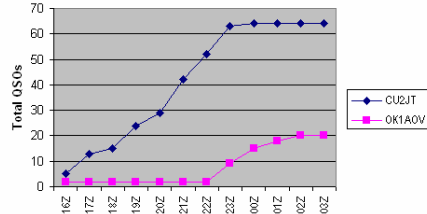
spot for DX stations was grabbed by **Gary Wikstrom, CU2JT** from the Azores. Gary reported that condx to Michigan did not seem very good on 20M, and his new operating location, different from previous years, did not seem to work as well on 40M. His rates were slow but steady during the first half of the contest, improving as Michigan sunset approached. However, Gary only made one QSO after 00Z, and he only operated a little

more than six hours of the contest. All of his QSOs were on CW and he worked 39 different MI counties while running high power.

In second place single-op from the DX side was **Jiri, OK1AOV**. Jiri was only able to operate a little less than three hours of the contest, mostly on 40M in the later hours of the contest when it was dark in Michigan. Like CU2JT all of his QSOs were on CW, and he ran high power while working 13 different MI counties.

In third place was **Jonas, LY2ZZ** who managed to sneak in a few minutes of operating time for MiQP. All of Jonas' few QSOs were in the early part of the contest, and like the other two top DX stations was all on CW.

DX SO - Total QSOs By Hour



The graph above shows the progress made by the top two DX single-ops as the contest ran on. It appears that the operating times for CU2JT and OK1AOV were the opposite of each other, as CU2JT was mostly active during the first half of the contest (when it was daylight in Michigan) and OK1AOV was active in the last half (during Michigan darkness). Not surprisingly, for these reasons CU2JT had better luck on 20M and while OK1AOV has better luck on 40M. Gary's win was largely the result of more time on the air, but both stations left a significant amount of operating time unused.

### MiQP Rookie Single-Op

The top MiQP Rookie Single-Op is not an MiQP category, but rather is an award intended to recognize Michigan single-op entries who are participating in MiQP for their first time. This award was initiated in 2007 through the generosity of Steve, N8NM, and in it's initial year we had to search long and hard to find an MiQP rookie participant. In 2008, this award sort of "fell off the table" as we forgot to advertise it and hence nobody claimed rookie status. This year, we had an

excellent field of rookies with five stations participating.

For 2009, the top MiQP Rookie Single-Op was **Jeff Miller, WB8WKQ** operating from Lapeer county in a close race QSO-wise with **Dan, N8ZBA** operating from neighboring St. Clair county. **Paul, N8WY** from Wayne county was third. Both of the

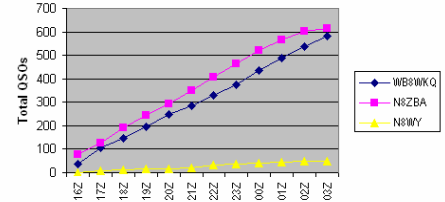
Call	Cty	QSOs	Mults	Score
WB8WKQ	LAPE	584	164	136,776
N8ZBA	STCL	613	103	63,139
N8WY	WAYN	105	54	5,670

top two entries had excellent QSO totals (Dan was fourth and Jeff fifth among ALL single ops in terms of QSOs.) Dan ran high power and actually made more QSOs than Jeff running low power, but Dan's QSOs were all on phone while Jeff made 43% of his QSOs on CW for double QSO points and 61 extra multipliers to take the win score-wise. Also, it helped that Jeff was active the entire contest period while Dan left about 30 minutes of operating time unused. The top two stations were almost dead even in regards to the number of different MI counties worked as WB8WKQ had 51 and N8ZBA had 50 in their logs. Paul only operated four hours running low power and worked 34 different MI counties.

### Most MI Counties Worked

The MiQP Most Counties Worked competition is intended to offer an alternative for those single operators

MiQP Rookie - Total QSOs By Hour



who like to focus on "working them all". There are separate competitions for in-state and out-of-state entries.

Among Michigan single-operators, the most counties were worked by **Art, K8CIT** with 58 (whose log was

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actually a checklog!), followed closely by **K8AO** and **K9RON** with 55. A total of 11 Michigan single-ops were able to work 50 or more Michigan counties this year.

Among the non-MI entries, once again the top three Eastern/Central Region entries swept the top three places in counties worked as well. (We'll continue to hope that this situation will even out a little for the Mountain/Pacific Region entrants as the sunspots return.) **Jeff, KU8E** had the most counties with 67, while **WA2VYA** with 64 and **AD8J** with 62 were neck and neck for 2<sup>nd</sup> and 3<sup>rd</sup> place respectively. It should be noted that western region winner **K07X** finished in a three-way tie for seventh amongst all non-MI entries with 53 counties worked. **CU2JT** led all DX entries with 39 counties and was tied for 25th among non-MI entries.

## Multi-Operator

### MI Single Transmitter

At the top of this year's Michigan Multi-Operator, Single-Transmitter competition we once again find a familiar callsign in an unfamiliar category. After several years of battle in the multi-transmitter arena, the

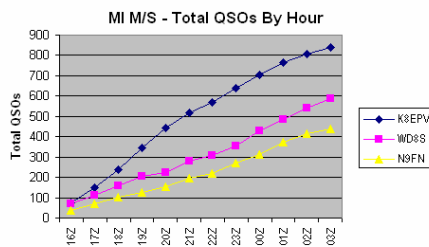
Call	Cty	QSOs	Mults	Score
K8EPV	LAPE	840	170	187,000
WD8S	OGEM	587	158	146,624
N9FN	ALLE	438	142	103,092

**K8EPV** multi-operator team operating from the K8DD QTH in Lapeer county shifted gears to single-transmitter for 2009 and found victory, while destroying the category record in the process. The team from EMARC put together a solid score which surprisingly has 20M as the biggest band (363 out of 840 QSOs). Like most big MiQP logs this year, their log is mostly phone (69%) but with enough CW QSOs to have a competitive multiplier total. Their best hour came relatively early in the contest, with a whopping 104 QSOs in the 19Z hour, primarily on 20M SSB. They operated the entire contest running high power and were

able to work 51 different counties.

In second place, we have the **WD8S** team operating from a temporary setup at N8KV's vacation cabin in Ogemaw county. This four-operator team only ran low power, but by focusing on double-point CW QSOs(58%) kept the race with K8EPV close. Their best hour of the contest was 00Z, with 75 QSOs and their low point was 20Z with 20 QSOs. The team operated the entire contest and worked 52 different counties.

In third place multi-single, we have last year's winner - **N9FN** with it's unique operating team; both ops are named Dave and both with "9FN" in their callsigns. In addition to it's third place finish, the operation by Dave/N9FN and Dave/K9FN is significant because it is the first reported fixed station entry ever reported from Allegan county in MiQP history. N9FN made the majority of their QSOs on 80M/75M: 304 out of 438 (69%). Over half of their QSOs were of the double-point CW variety but their multipliers were a good balance between CW and phone. N9FN was another multi-single team running low power; while their rates in general were lower than K8EPV or WD8S, they didn't have were any really bad hours. They operated the entire contest period while working 52 different Michigan counties.



The graph above shows the progress made by each of the top three multi-single entries as the contest ran on. K8EPV and WD8S started out only a few QSOs apart, while N9FN's slow start got them behind early. K8EPV really poured on the coal from 18Z -21Z to build a lead, but then WD8S matched their rates for the rest of the contest. From the mid-point of the contest, N9FN matched rates with WD8S for the rest of the way.

## MI Multi-Transmitter

Call	Cty	QSOs	Mults	Score
K8XXX	BARR	2470	225	726,525
K8MQP	LIVI	1703	220	495,220
N9KI	STCL	808	178	228,374

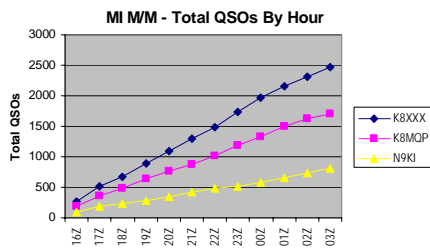
The winner of this year's multi-multi category was the 2008 winner **K8XXX**, again operating from the N8CC QTH in Barry county. Their score of **726,525** sets a new category record, and again sets a new mark for the **highest score ever in MiQP**. With six rigs, the K8XXX log is biased towards phone (69%) and surprisingly their best band was 20M, with 954 QSOs (up from 682 last year), followed by 40M then 80M. They also had the highest overall multiplier of the contest. Their best hour for rate was the first, with 259 QSOs getting into the log while their lowest was the last with still a very fine 156. They worked the largest number of different counties of anyone in the contest, their total of 70 beating their mark of 68 from 2008.

In second place was **K8MQP**, this time operating from W8MJ's QTH in Livingston county. With only three rigs, the K8MQP log was biased towards SSB (68%) with a reasonable balance between phone and CW multipliers. Their band breakdown was 474/745/484 on 80M/40M/20M, and their best hour was the first with 193 QSOs between the three stations. They matched their 2008 total of 65 different counties, and they operated the entire contest period.

The third place multi-multi team was a portable operation from the Upper Peninsula - **N9KI/8** from Menominee county. This team enjoyed it's best success on 40M with 394 QSOs, or 49% of their total. Their log moderately favors CW in terms of QSOs, but had slightly more mults on phone. N9KI was another group which eschewed the advantages of running high power, but they still managed a best hour or 98 QSOs at the start. They operated the entire contest period while working 53 different MI counties

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The graph above shows the progress made by each of the top three multi-multi entries as the contest ran on. The graph clearly shows the advantages of more transmitters and high power. K8XXX with six transmitters and high power grabs the early lead and makes the best rates throughout the contest. K8MOP with three rigs can't keep up with 'XXX, despite also running high power. N9KI/8 with two rigs and low power is consistent, but can't keep up with K8MOP while posting more modest rates throughout the contest. Their far north QTH may also be a factor in this difference.

### Michigan EOC Stations

The Emergency Operation Center, or EOC, category was new to the MiQP in 2008. After having four EOC entries last year, the category grew to eight stations in 2009. This field was a good mix of returnees from 2008 and new activations appearing in MiQP for the first time.

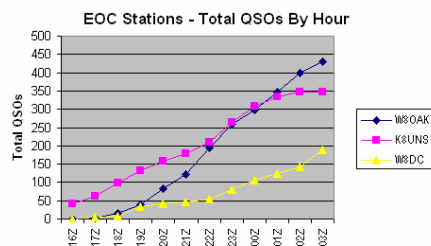
Call	Cty	QSOs	Mults	Score
W8OAK	OAKL	431	137	76,035
K8UNS	WAYN	348	117	69,732
W8DC	KENT	190	77	14,707

Leading the charge in the EOC category, and repeating their win from 2008 was **W8OAK**, the team at the Oakland County ARPSC. This group had eleven operators, ran 100W but missed the entire first hour and almost all of the second hour getting set up. Still, they managed to get in almost two hours more operating time than last year, and once they got going they did very well; almost tripling their 2008 score and setting a new record for the EOC category thanks to 185 more QSOs and 39

more mults than in 2008. Their band breakdowns were 241/163/36 on 80M/40M/20M while increasing their percentage of CW (29%). Their best rate was 72 QSOs in the 22Z hour, and they worked 49 different Michigan counties and 93 different multipliers.

Close on W8OAK's heels was the second place EOC station: the team at **K8UNS** from the Livonia ARC in Wayne County activating their EOC for the first time in MiQP. This team's band breakdowns were 174/131/43 on 80M/40M/20M, but with 71% on CW earning double points. K8UNS ran high power and put in 10:40 of operating time, working 42 different MI counties 85 unique multipliers.

The third place EOC station came from **W8DC**, the Grand Rapids Amateur Radio Association in Kent county, also activating their EOC for the first time in MiQP. Like W8OAK, they got off to a slow start with only 8 QSOs after the first three hours, but then they got rolling. Most of their QSOs were on phone, save for a single 10M CW QSO with one of their Kent county neighbors. Their big band was 75M phone (59%). They ran low power and put 40 different MI counties and 77 unique multipliers into their log in 8:18 of operating time.



The graph above shows the progress made by each of the top three EOC stations as the contest ran on. W8OAK and W8DC got off to slow starts, while K8UNS hit the ground running with 41 QSOs in the first hour, pulling out to a QSO lead for the first half of the contest. But once W8OAK got rolling, their steady rates and operating up until the end of the contest (with K8UNS QRT in the last hour) allowed them to finish ahead. After their slow start, the W8DC team managed rates in the last half of the contest which were similar to W8OAK and K8UNS, but by then they had simply fallen too far behind

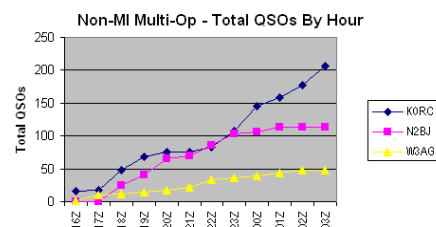
to catch up.

### Non-MI Multi-Operator

Call	Location	QSOs	Mults	Score
KØRC	MN	204	77	21,791
N2BJ	IL	114	58	6,902
W3AG	PA	48	29	2,784

The non-MI multi-operator entries were lead by **Bob Chudek, KØRC** operating from Minnesota. Bob made the largest portion of his QSOs (1209 out of 204) on 80 meters, with about 2/3 on phone overall. He ran low power, made most of his QSOs after darkness fell and operated 8:15 of the contest while working 53 different MI counties. Doing battle with KØRC for most of the contest was station **N2BJ** from Illinois, operated by Barry and Paula, K2PAC. The N2BJ log was mostly phone, their best band was clearly 75M and they managed to work 53 different Michigan counties in six hours of operating time. Third place went to another single-operator with packet; **Joe, W3AG** from Pennsylvania. Joe did it the hard way, operating QRP. It's no real surprise that his log was entirely CW, almost perfectly split between 80M and 40M. Joe put in 4:16 of operating time and worked 29 different MI counties.

The graph above shows the pro-



gress made by each of the top three non-Michigan multi-op entries as the contest ran on. KØRC edged out to an early lead in the first half of the contest, but N2BJ pulled even by the end of the 23Z hour. KØRC pulled back ahead once darkness fell and N2BJ was QRT. W3AG running QRP was actually ahead of N2BJ for the first two hours, band kept steady, if slow, rates for the rest of the contest.

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## Michigan Mobiles

### Solo Operator

Call	Ctys	QSOs	Mults	Score
K9TM/m	12	413	83	64,242
W8CAR/m	10	330	68	43,588

The winner of the Michigan Mobile Solo Operator category was **Tim Mitchell, K9TM**, who drove up from his Sylvania, OH QTH for his first mobile entry in MiQP since 2000. Armed with a new mobile platform (a 50 MPG 2009 Volkswagon Jetta TDI) and a new mobile setup, he activated 12 counties in the western and central parts of the lower peninsula. Most of Tim's QSOs were on CW (361 of 413) with 40M being his best band followed by 20M. Still, the lack of short skip on 40M and the difficulties mobile stations have with being heard on 80M limited him to working only 16 different MI counties in his ten hours of operating time. His best rate was 56 QSOs in the second hour of the contest.

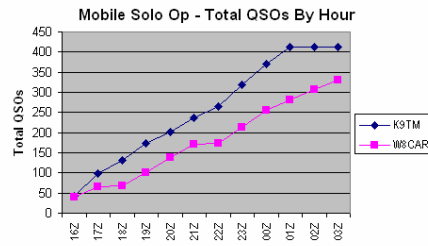
Second place in the mobile solo operator category goes to another Ohio visitor: **Dan, W8CAR/m** from Sandusky who mobiled through 10



**K9TM/M Operating Position**

southern Lower Peninsula counties. Dan gave away two hours of operating time to Tim. He only made one QSO in the third and seventh hours, but he was on the air both at the start and end of the contest, so as a single-op mobile most of his lost time must have occurred while transiting between operating sites. Dan also made most of his QSOs on 40M (191 of 330) but also like Tim he wound up working a relatively small number of MI counties: only 15 different ones.

The graph below shows the progress made by the two mobile solo-operator entries as the contest ran on. After the first hour the two competitors were only two QSOs apart, but K9TM managed better rates over the next few hours, particularly during 18Z when W8CAR was essentially QRT. From 19Z-21Z the two matched rates until W8CAR had another bad hour at 22Z. After that, the rates were similar again until the 02Z hour when K9TM was QRT and W8CAR began to catch up.



### Multi-Operator

Call	Ctys	QSOs	Mults	Score
K8MR/m	25	817	119	179,809
K8IR/m	14	649	99	122,661
N8KR/am	16	90	33	138,424

When the dust had settled in the mobile multi-operator category, a familiar callsign was out front: **K8MR/m**, operated by **Jim Stahl, K8MR** and **John Bostwick, AC8E**, who activated 25 counties in the central and eastern half of the lower peninsula. The secret to this team's success are agility and flexibility; agility in that they could jump bands and modes quickly to grab ad-

ditional QSOs or multipliers without hurting their overall QSO rate, and consistency in that their slowest hour still put 55 QSOs into their log. Their best hour was 19Z with 86 QSOs. They operated the entire contest period and worked 36 different Michigan counties.

In second place was the **K8IR/m** entry operated by **Jim, K8IR** and **Eric, KG9GH**, who managed their second best MiQP mobile score ever. This team activated 14 Upper Peninsula counties, missing only Chippewa for a sweep of the peninsula. Their QSO breakdowns were 168/332/149 with 590/59 CW/phone. Their best hour was 02Z with 71 QSOs going into their log; their slowest hour was 22Z with only 26 QSOs. K8IR/m were active for the entire contest period and worked 28 different Michigan counties.

The "/am" appended to the callsign of the third place mobile multi-operator entry is not a typo - **N8KR/am** was actually aeronautical mobile during the contest, in what was the first ever HF activity reported from a airplane in MiQP history. **Ken, N8KR** and pilot **Jerry Larsen** flew Ken's Piper Cherokee 160 equipped with an Alinco DX-70 running 50W and a 19' per leg horizontal-V antenna stretched from the plane's tail to the wingtips (see photo below) over 16 MI counties in 3:44 of operating time. They carried not one, but two GPS systems - one to navigate aeronautically, and the other with the county lines clearly marked. Turbulence made operating CW with a straight key difficult. With the exception of a single QSO on 40 phone, all of their QSOs were on 20M.

The graph on the next page shows the progress made by each of the top three mobile multi-operator entries as



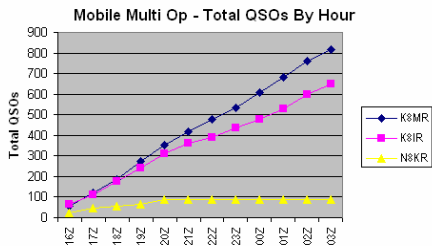
**K8MR/M at a stop in Otsego County**



**N8KR/am and one leg of their antenna**

(Continued from page 8)

the contest ran on. K8MR and K8IR were in a dead heat for the first three hours then K8MR began to slowly pull away. All of N8KR's QSOs came during the first five hours of the contest.



## Club Competition

### In-State

Club	Score	Entries
Adrian Amateur Radio Club	859,383	8
Blossomland Amateur Radio Association	325,532	9
Eastern Michigan Amateur Radio Club	284,041	3

The second place MI club last year jumped to the top this time - and it was former club winner the **Adrian ARC**. Adrian put together eight scores (second only to Blossomland and YCCC in terms of the number of entries) including the #1 multi-multi and #3 single-op high-power scores for **859,383 points**. Adrian is the club which holds the record for in-state clubs at 1,063,028 which they set in 2004.

The second place club, the **Blossomland ARA**, jumped into second place from their fourth place finish in 2008 by increasing their score almost 10% to **325,532 points**, but still had to settle for second place behind Adrian. The Blossomland score was helped mightily by the #1 single-op high power (N8SS) and #4 multi-single scores (KX8D). Most of Blossomland's scores come from the southwest part of the state, but they also benefit from far flung alumni such as N8SS (in WAYN) and KX8D (in PRES).

Reprising their third place finish

from 2008 was the **Eastern Michigan Amateur Radio Club** with **284,041 points**, an improvement of 42% over than last year. The EMARC total benefited from the #1 multi-single and #1 QRP single-op entries. They finished with more than a 120K lead over the fourth place club.

### Out-Of-State

Club	Score	Entries
Frankford Radio Club	58,769	2
South East Contest Club	48,674	4
Florida Contest Group	43,694	5

Among the out-of-state clubs, the **Frankford Radio Club** stepped up and grabbed the top spot for the first time with a score of **58,769 points**. They only had two scores, but what they lacked in quantity they made up in quality; the #1 and #3 Eastern Region single-ops came from the Frankford ranks.

Not far behind Frankford in second place is a former out-of-state club winner, the **South East Contest Club** with **48,764 points**. The SECC put together four scores, but one of those was KU8E's #2 place Eastern Region score, and that was good enough to edge out third place.

Close on the heels of the SECC is another former out-of-state club winner: the **Florida Contest Group**, led by N4IG and WJ9B. With five scores totaling **43,694 points**, FCG was less than 5,000 points behind the SECC in the race for second place.

Once again, we would like to point out that scores for an in-state club must be made from Michigan, and scores for an out-of-state club must be made from outside of Michigan. In some cases, there were clubs which had member scores from both areas. In these cases we treat the member's scores outside the club's "home" region as a separate club, and if there were two or more such entries, these appear in the results. (For example, MRRC had three entries from Ohio/Pennsylvania, so these are shown as "MRRC non-MI".)

## MiQP 2007 Soapbox

Thanks for the QSOs - **AA9KH** Many thanks to the Mobile stations - **AB7RW** This was my first contest ever! - **AB8XU** Was enjoyable - **AC8DO** Had fun for limited time on - **AE1P** The bands were not in a very good mode and most stations were very weak on 20m. I did not have the same success on 40m as 2 years ago working from a new location further from the sea and with an inferior antenna compared to 2007. Guess I can say that I worked every station I heard and called, what more can you ask for? And I was sure glad to get BAY county on 80m just before bedtime - **CU2JT** Many thanks to the mobile stations for activating the rare counties - **K3TW** Ran 100W on 40 and 20, but couldn't get through the QRN on 80 without the amplifier, so ran 1 KW on 80. Time limited this year - **K4BAI** Lots of noise here in GA. Only operated for 3 hours - **K4NV** First time joining in a contest - had some fun - I think first contact K8MQP might have wrong serial # - oh well - had fun - **K7DNH** Yaesu FT897D, 20 foot high 130 foot delta loop on 20 M and a Buddipole vertical on 40 M, a battery, and the N8XJK 12 Volt Boost Regulator. Lots of lightning crashes, heard less MI than normal - **K7RFW** Our second best effort in the 8 years I've been mobile (last year was the best). I felt the first few hours were pretty good, but when the QRN came up on 40 and 80, it became quite a struggle. Despite that, the 0200 hour was our best with 71 contacts - **K8IR/m** Murphy struck. I loaned my computer-to-rig interface to a friend but didn't get it back, so I built another one. Unfortunately, I didn't check it out prior to the event. It was DOA. I looked it over, but didn't see anything wrong. So, I tried my ancient bug - but it was too corroded on the contacts, and burnishing didn't do much. Brought out the trusty J-38, and did the pump handle thing. Even at 1 p.m. 20 meters was all but dead, so quick move to 40. About 4 p.m. I looked over the computer interface, tried it again, and it worked. But, after about 10 Q's it went into an oscillation and wouldn't stop - made a horrible noise in the rig, and probably on the air. After unhooking it and reinstalling it, the

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same problem, so back to the trusty J-38. Thanks to all who slowed down to my hand sent speed, even though I could copy faster. K8MAD was an interesting call, especially on phone. People would do a double take, and I'd say I was the "mad man from Michigan" - **K8MAD (op. N8XX)** I enjoyed the contest. I was called into work, so lost some hours there, also other commitments - **K8NB** Great time running QRP. Didn't have a lot of trouble running a frequency on any band. Tried to beat the kid (K8MM) again this year but his fine SO2R did me in. I don't think it has anything to do with the age difference. Hmmmm. I think next year will call for a few more wires in the air and my own SO2R setup. Thanks for another great contest - **K8NWD** Great job K8IR/m! - **K9OM** Thanks for a FB MIQP again this year - **KB9YGD** Limited operating time and low ant only 6ft off the ground but enjoyed it - **KC4MYV** Had a fun time for a short event - **KD2MX** Thanks for all the Q's. Had a great time in MIQP - **KD5JHE** My first solo contest. It was great even if band conditions weren't good - **KD8AUZ** This is a great contest. My wife and I look forward to it every year - **KD8CCX (+KD8CMT)** Next year I will pray for cold weather to keep people inside playing radio - **KD8CQC** Fun! Talked with an airplane, and heard a rover (first time in a contest for either of those for me - **KE7GRL** Late start due to the Milford Swap. Life got in the way of 12 hours. Using SD was great - **KE8UM** First try, learned a lot - **KG8P** This will be my last MIQP from the States. Only part time and mostly 25W but it was still fun. Hope to on again as DL2HBX next year - **KK8I** Had a great time and am looking forward to next year - **KT8K** Operating portable from Maine - **KV1J** Had a great time. Tnx for running a nice QSO party - **KW3A** My second Michigan QSO Party - **N1NN** It has been a long time for my participation - **N3RJ** Wonderful contest - **N8MME** Wished I had more time, but it was still fun, can't wait tell next year - **N8MRC** I could never quite get the timing on the mobiles as they changed counties, what with their appearances brief on 40M and 20M too long from here. On the

other hand, lots of activity from casual ops in Michigan, and it is always nice to say hello to the ops back "home". See you next year - **N8NA (a former Michigander)** We had a great time operating from K8CJO's QTH in Allegan County, MI and would like to thank Bill for opening his home and shack to us for the event. It was also nice to remove ALLE from the list of MI Counties that never had a fixed station operation in MIQP. We bettered our score from last year, and had a great time which is what it's all about! Look for us in INQP in two weeks, then OQP and ILQP later this year - **N9FN** Working again this year from the Upper Peninsula's beautiful Shakee Lakes Park in Menominee County, 10 miles west of Stephenson. Started setting up on Friday and finished Sat. morning with great weather, sunshine and warmth. Many flocks of geese and ducks flying over all day. Saturday, late night brought us high winds and a dramatic drop in temps, low of 34 by Sunday morning with rain greeting the tear-down activities. Band's conditions were up and down, sometime a sig would be over S9 and the next moment, gone, fast QSB. Overall we had a lot of fun operating just across the border, bonfire and brews on Fri. night after a super fish fry at a local pub, great breakfasts from the local diner in Stephenson. Thanks to all for the participation and QSO's - **N9KI/8** Hopes of making a serious effort in the MIQP were dashed by the torrential rains in the Houston area most of Saturday. I was not able to get on the air until around 0000Z. At that point 20 was gone and, due to the thunderstorms that had moved off to the east, 40 and 80 were very noisy. I don't think I heard any mobiles although I'm sure some were out and about even in the very tough conditions - **NO5W** The bands were surprising sometimes good some poor. SD worked out OK I'm learning it. The contest very enjoyable - **VE5BCS** Had fun, will try to do it again next year. - **VE5BF** First time participant, I really enjoyed making contacts in the old home state - **W0MR** Elecraft K1 & G5RV - **W0PQ** Thanks for another enjoyable QSO party. Rig used was TS830s (100W), Butternut HF6V vertical antenna - **W1END** Great QSO

Party - See You Next Year - **W1KDA** Part-time effort here. Just couldn't stay inside with the nice wx - **W2UDT** I had a ball. Conditions poor, but still fun. Thanks for sponsoring the MI QSO PARTY - **W5ESE** We had a blast working the QSO Party from the Ann Arbor Hands-On Museum, one of our club stations - **W8CWN** We had good reports using our GAP (TITAN DX) vertical on 40 M - **W8DC** Strange conditions. 40 meters could only work UP stations and it took 80 meters to work Lower Peninsula from Northern Ohio - **W8IDM** Not bad for the bottom of the solar cycle. Only heard one mobile. 40m didn't do the mobiles any favors this year. Our effort much better than last year tho - **W8OAK** Good contest, helped on my code speed. Back into contesting after being away from ham radio for a number of years - **WB8LZA** Had a great time for my first state QSO party. Didn't get started till almost 3pm. Had to wait for a control op to show up. Had three control operators looking over my shoulder :) Wonder if I qualify for QRP also since I was told that everything was setup for only ten watts max output? - **WC8RC** I thought the condx were brutal - I only had a few hours but I had fun - glad to hear so many guys active tnx - **W18A** Thanks for a great contest - **WU2S**

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## 2009 MiQP Plaque Program

Plaques and certificates will be going out in late August or early September. If you've not received your award by the end of October 2009, drop an e-mail to our awards manager Mike, WD8S at wd8s@comcast.net. The MiQP thanks the sponsors of these awards for their generosity.



### High Score - Michigan Single Op - High Power

Sponsor: Hazel Park Amateur Radio Club

Winner: **Earl Morse, N8SS**



### High Score - Michigan Single Op - Low Power

Sponsor: Eastern Michigan Amateur Radio Club

Winner: **Station N8M - Operator Ken Silverman, K2KW**



### High Score - Michigan Single Op - QRP

Buck Switzer, N8CQA Memorial

Sponsor: Michigan QRP Club

Winner: **Ian Hill, K8MM**



### High Score—Michigan Rookie Single Op

Sponsor: Steve Murphy, N8NM

Winner: **Jeff Miller, WB8WKQ**



### High Score - Michigan Multi-Op Single-Transmitter

Sponsor: Monroe County Radio Communications Association

Winner: **Station K8EPV - Operators: AC8W, K8DD, K8WMW, KA8IEO and KD8HBX**



### High Score - Michigan Multi-Op Multi-Transmitter

Sponsor: Adrian Amateur Radio Club

Winner: **Station K8XXX - Ops: K8AQM, K8JVV, K8KS, K8QKY, KR8U, KT8X, KD8GZG, N8CC, N8UUP, ND5S, W8DA & WA8ICK**



### High Score - Michigan Mobile, Solo-Operator

Sponsor: Utica Shelby Communications Association

Winner: **Tim Mitchell, K9TM/m**



### High Score - Michigan Mobile, Multi-Operator

Sponsor: Flying Beers International Amateur Radio Club

Winner: **Station K8MR/m - Operators K8MR, AC8E**



### High Score - Michigan EOC Station

Sponsor: Mad River Radio Club

Winner: **Oakland County ARPSC, W8OAK**



### High Score - Out of State Single Operator, Eastern/Central Region

Sponsor: Cherryland Amateur Radio Club

Winner: **Frank Widmann, WA2VYA**



### High Score - Out of State Single Operator, Mountain/Pacific Region

Sponsor: Southeastern Michigan DX Association

Winner: **Alan Brubaker, KO7X**

# 2009 MiQP Michigan Single-Operator Scores

Callsign	Loc	Score	QSOs	Mults	Pwr	Callsign	Loc	Score	QSOs	Mults	Pwr
KG8N	ALPE	6,042	106	57	B	NN8L	MASO	25,146	240	99	B
K8SB	ANTR	52,400	294	100	B	KD8EEA (op. KA1HDG)	MCLM	4,590	86	51	B
WI8A	BAY	54,285	288	105	C	N8PUG	MECO	825	33	25	B
K9RON	BERR	36,084	388	93	C	K8NB	MENO	9,880	99	65	A
KD8GRG	BERR	10,050	150	67	B	W8WOJ	MIDL	1,333	43	31	C
N8MS	BERR	9,933	118	77	B	KG8P	MONR	9,144	108	72	C
N8KBG	BERR	6,254	77	59	B	N1IW	MTMO	92,876	457	124	B
K8TMK	BERR	2,360	59	40	B	NR9B	MUSK	38,364	231	92	B
W8JBA	BERR	1,750	50	35	B	K8RO	OAKL	94,047	437	141	B
N8OC	CHIP	27,510	210	105	B	K8NWD	OAKL	43,792	244	112	A
K8AO	DELT	125,356	754	148	C	N8NX	OAKL	37,715	263	95	B
WD8RTH	DELT	2,400	60	40	B	KK8I	OAKL	30,597	191	93	B
K8MM	GENE	96,480	416	134	A	N8EA	OAKL	13,310	121	55	B
N8MME	GENE	4,399	83	53	B	AC8DO	OAKL	8,700	148	58	B
K8EO	GLAD	3,760	73	47	B	K8IY	OAKL	6,954	122	57	B
K8DLM	GOGE	1,410	47	30	C	N8GUZ	OAKL	6,710	110	61	B
W8AWE	GRAT	3,818	71	46	B	W8ETN (op. W8RU)	OAKL	5,382	66	46	B
AA8SN	GRTR	4,675	66	55	B	KE8UM	OAKL	4,872	76	56	B
WA1UJU	HOUG	101,508	453	132	B	KC8C	OAKL	1,470	49	30	B
KD8JAM	HOUG	3,476	79	44	B	WA8UMT	OAKL	700	28	25	B
K8GVK	INGH	14,342	120	71	A	W9NPI	OAKL	378	16	14	B
W8JRK	INGH	4,350	84	50	B	AC8AI	OAKL	63	9	7	C
N8MRC	IONI	9,114	147	62	B	KD8CAO	OTTA	12,200	244	50	C
NM8R	KALK	21,012	206	51	B	KC8KI	OTTA	7,000	125	56	B
WZ8T	KENT	31,341	337	93	B	WB8LZA	SAGI	24,186	174	87	B
K8MAD (op. N8XX)	KENT	20,915	147	89	B	KD8AUZ	SAGI	20,328	242	84	B
KD8GOX	KENT	13,321	159	77	B	N8LMT	SANI	9,660	138	70	B
W8MKR	KZOO	8,160	91	48	B	N8ZBA	STCL	63,139	613	103	C
WB8WKQ	LAPE	136,776	584	164	B	W8RIT	STCL	10,508	147	71	B
NF8M	LAPE	18,711	140	77	A	KC8ITI	TUSC	2,184	56	39	B
NU8Z	LENA	76,874	431	133	C	W8NGO	TUSC	1,887	51	37	B
W8WVU	LENA	51,294	309	83	B	KI8Z	VANB	2,028	52	39	B
K8KIC	LENA	24,991	196	67	B	N8M (op. K2KW)	WASH	175,761	674	177	B
KC8A	LENA	10,519	157	67	B	KT8K	WASH	36,575	244	77	A
N8AMM	LENA	7,626	123	62	C	K8AAX	WASH	31,527	198	93	B
W8IQO	LENA	5,900	100	59	B	WD8RWI	WASH	3,400	85	40	B
K8ADM	LENA	3,450	75	46	B	N8SBE	WASH	1,196	52	23	B
AB8XU	LIVI	2,352	56	42	B	KC8TQB	WASH	342	19	18	B
K8RDJ	MACO	79,440	386	120	B	KC8YFG	WASH	240	12	10	B
N8UO	MACO	16,116	128	68	B	N8SS	WAYN	216,180	866	180	C
N8AE	MACO	7,280	130	56	B	K8DSL	WAYN	25,088	197	64	B
K8VFR	MACO	3,828	66	29	B	K8SAK	WAYN	20,080	251	80	C
WA8BIJ	MACO	3,045	53	29	B	N8WY	WAYN	5,670	105	54	B
KD8JDC	MACO	1,600	50	32	B	KC8YEJ	WAYN	2,501	61	41	B
						WB8WIV	WEXF	1,581	51	31	B

Scores in red are plaque winners, scores in bold are certificate winners

Scores 1 of 7

# 2009 MiQP Non-MI Single-Operator Scores

## Eastern Region

Callsign	Loc	Score	QSOs	Mults	Pwr
<b>W4NBS</b>	<b>AL</b>	<b>1,885</b>	<b>41</b>	<b>29</b>	<b>B</b>
W6GBG	AL	375	25	15	B
<b>N8NA</b>	<b>DE</b>	<b>22,673</b>	<b>189</b>	<b>79</b>	<b>B</b>
<b>N4IG</b>	<b>FL</b>	<b>19,728</b>	<b>162</b>	<b>72</b>	<b>B</b>
WJ9B	FL	14,656	142	64	C
K9OM	FL	6,400	83	40	C
N4PJ	FL	1,470	35	21	B
N4BP	FL	1,440	30	24	B
W5JBV	FL	1,386	33	21	A
K8JLB	FL	561	23	17	B
KD4MZM	FL	154	14	11	B
KC4MYV	FL	30	6	5	B
K4GOP	FL	9	3	3	B
<b>KU8E</b>	<b>GA</b>	<b>36,036</b>	<b>233</b>	<b>99</b>	<b>C</b>
K1ZZI	GA	6,630	85	39	C
K4BAI	GA	3,708	59	36	C
N4GG	GA	2,300	46	25	C
K4NV	GA	2,176	68	32	C
WB5RYB	GA	1,806	43	21	B
K4VIG	GA	1,760	44	20	B
KC4YBO	GA	192	16	12	B
KJ4CNC	GA	132	12	11	B
KJ4IQL	GA	8	2	2	B
<b>N9HDE</b>	<b>IA</b>	<b>4,235</b>	<b>68</b>	<b>35</b>	<b>B</b>
<b>N9QS</b>	<b>IL</b>	<b>4,028</b>	<b>59</b>	<b>38</b>	<b>B</b>
W9WE	IL	2,852	62	23	B
AA9KH	IL	1,428	34	21	B
NV9X	IL	759	24	23	B
N9WEW	IL	520	26	20	B
K9JG	IL	288	14	12	B
AI9I	IL	18	3	3	A
<b>W9RE</b>	<b>IN</b>	<b>4,060</b>	<b>58</b>	<b>35</b>	<b>B</b>
KB9YGD	IN	4,042	68	47	B
<b>W0BH</b>	<b>KS</b>	<b>4,576</b>	<b>82</b>	<b>44</b>	<b>C</b>
WN8P	KS	3,604	53	34	B
<b>KJ4AOM</b>	<b>KY</b>	<b>3,402</b>	<b>63</b>	<b>27</b>	<b>B</b>
K4WW	KY	2,600	50	26	B
K4MSH	KY	234	18	13	C
AI4G	KY	48	8	6	B
N5HMH	LA	315	21	15	B
<b>W1DWA</b>	<b>MA</b>	<b>18,407</b>	<b>158</b>	<b>79</b>	<b>B</b>
W01N	MA	7,722	97	54	B
W1TO	MA	3,132	58	27	B
<b>VE4EAR</b>	<b>MB</b>	<b>1,984</b>	<b>40</b>	<b>31</b>	<b>B</b>
<b>K3TW</b>	<b>MD</b>	<b>7,050</b>	<b>98</b>	<b>47</b>	<b>C</b>
<b>KV1J</b>	<b>ME</b>	<b>2,112</b>	<b>48</b>	<b>33</b>	<b>C</b>
<b>K0MPH</b>	<b>MN</b>	<b>5,136</b>	<b>68</b>	<b>48</b>	<b>B</b>
W0MR	MN	4,452	106	42	B
K0TK	MN	3,008	51	32	B

## Eastern Region (continued)

Callsign	Loc	Score	QSOs	Mults	Pwr
<b>K0JPL</b>	<b>MO</b>	<b>8,586</b>	<b>109</b>	<b>54</b>	<b>C</b>
N0LY	MO	2,700	50	27	A
K2HT	MO	1,352	34	26	B
KD0JBN	MO	437	23	19	B
KF0F	MO	72	9	8	B
KD5JHE	MS	1,232	28	22	B
<b>K4BSK</b>	<b>NC</b>	<b>2,916</b>	<b>54</b>	<b>27</b>	<b>B</b>
KC4EZN	NC	420	28	15	B
<b>W0PQ</b>	<b>NE</b>	<b>1,080</b>	<b>27</b>	<b>20</b>	<b>A</b>
<b>W1END</b>	<b>NH</b>	<b>3,074</b>	<b>53</b>	<b>29</b>	<b>B</b>
AE1P	NH	1,620	54	30	B
N1LU	NH	1,320	33	20	B
AE1T	NH	900	25	18	C
WA1Z	NH	644	23	14	C
<b>WA2VYA</b>	<b>NJ</b>	<b>36,096</b>	<b>256</b>	<b>96</b>	<b>C</b>
W2CVW	NJ	4,080	60	34	B
W2UDT	NJ	4,074	68	42	C
K2DSL	NJ	3,936	73	41	B
WA2LXE	NJ	1,400	35	20	B
KD2MX	NJ	900	25	18	B
WU2S	NJ	704	22	16	A
<b>NT2A</b>	<b>NY</b>	<b>20,720</b>	<b>168</b>	<b>74</b>	<b>B</b>
N2SQW	NY	7,884	109	54	C
W2UJ	NY	4,444	101	44	C
WA2JQK	NY	2,310	56	33	B
AB2TC	NY	1,107	41	27	B
<b>W8TM</b>	<b>OH</b>	<b>6,731</b>	<b>76</b>	<b>53</b>	<b>A</b>
WB8JUI	OH	4,182	60	41	B
N9AUG	OH	3,003	49	33	B
AE8M	OH	2,340	42	30	B
NR8U	OH	2,006	59	34	B
W8IDM	OH	1,950	39	25	B
N8XTH	OH	782	34	23	B
NS8O	OH	624	20	16	B
AF8C	OH	242	11	11	B
<b>AA5JG</b>	<b>OK</b>	<b>1,176</b>	<b>31</b>	<b>21</b>	<b>B</b>
<b>VE3CR</b>	<b>ON</b>	<b>2,700</b>	<b>52</b>	<b>36</b>	<b>C</b>
VE3NB	ON	204	17	12	B
VE3HUR	ON	144	9	8	A
VA3HUN	ON	112	8	7	B
<b>AD8J</b>	<b>PA</b>	<b>22,098</b>	<b>175</b>	<b>87</b>	<b>C</b>
KA3QLF	PA	13,104	125	72	B
KW3A	PA	11,800	173	59	C
KB3LIX	PA	7,198	86	59	B
W3WC	PA	3,807	64	47	C
K3TX	PA	3,000	60	25	B
<b>XM2AWR</b>	<b>QC</b>	<b>2,784</b>	<b>51</b>	<b>32</b>	<b>B</b>
VE2AXO	QC	50	5	5	B
<b>W1KDA</b>	<b>RI</b>	<b>2,160</b>	<b>72</b>	<b>30</b>	<b>B</b>
<b>K2SX</b>	<b>SC</b>	<b>4,028</b>	<b>63</b>	<b>38</b>	<b>B</b>
K0PIR	SD	48	8	6	C

# 2009 MiQP Non-MI Single-Operator Scores

## Eastern Region (continued)

Callsign	Loc	Score	QSOs	Mults	Pwr
<b>K4LTA</b>	<b>TN</b>	<b>8,424</b>	<b>108</b>	<b>39</b>	<b>C</b>
NA4K	TN	7,900	99	50	B
W4BK	TN	2,584	54	34	B
N2WN	TN	1,840	40	23	B
KS4X	TN	1,456	56	26	B
N4DW	TN	1,134	27	21	B
KT4RH	TN	700	33	20	B
<b>W0VX</b>	<b>TX</b>	<b>6,580</b>	<b>87</b>	<b>47</b>	<b>B</b>
N4CD	TX	5,082	63	42	B
W5CSM	TX	580	29	20	B
W5ESE	TX	448	16	14	A
NO5W	TX	198	11	9	B
KB5DRJ	TX	16	4	4	B
<b>W4RQ</b>	<b>VA</b>	<b>6,109</b>	<b>79</b>	<b>41</b>	<b>B</b>
W4AU	VA	4,896	68	36	B
N3TG	VA	2,500	50	25	B
K4ORD	VA	1,804	41	22	A
N4MM	VA	1,161	30	27	B
W4ZPR	VA	576	18	16	B
KI4LXT	VA	576	32	18	B
KI4MFX	VA	504	28	18	B
K1SO	VA	300	20	15	B
N3KN	VA	247	15	13	B
<b>KB1ODO</b>	<b>VT</b>	<b>2,592</b>	<b>59</b>	<b>36</b>	<b>C</b>
<b>WR9Y</b>	<b>WI</b>	<b>3,652</b>	<b>58</b>	<b>44</b>	<b>B</b>
K9BTQ	WI	2,860	65	44	B
K9EN	WI	2,208	48	23	B
W9AEM	WI	1,716	36	26	B
W9OA	WI	1,600	32	25	B
KB9S	WI	588	21	14	B
<b>K8JQ</b>	<b>WV</b>	<b>11,532</b>	<b>122</b>	<b>62</b>	<b>C</b>
<b>DX</b>					
Callsign	Loc	Score	QSOs	Mults	Pwr
<b>CU2JT</b>	<b>DX</b>	<b>4,992</b>	<b>64</b>	<b>39</b>	<b>C</b>
<b>OK1AOV</b>	<b>DX</b>	<b>520</b>	<b>20</b>	<b>13</b>	<b>C</b>
<b>LY2ZZ</b>	<b>DX</b>	<b>32</b>	<b>4</b>	<b>4</b>	<b>C</b>
PA3ARM	DX	8	2	2	B

## Western Region

Callsign	Loc	Score	QSOs	Mults	Pwr
KL7/AH0AH	AK	4	2	2	B
<b>N7JXS</b>	<b>AZ</b>	<b>924</b>	<b>28</b>	<b>22</b>	<b>C</b>
W7KAM	AZ	450	25	18	B
KE7GRL	AZ	340	20	17	B
<b>VA7RN</b>	<b>BC</b>	<b>13,000</b>	<b>115</b>	<b>65</b>	<b>B</b>
VA7DM	BC	624	24	13	C
<b>N6MU</b>	<b>CA</b>	<b>11,999</b>	<b>100</b>	<b>71</b>	<b>B</b>
K6DGW	CA	5,852	78	44	C
W6KC	CA	2,325	44	31	C
AF6EV	CA	1,386	33	21	B
K6KQV	CA	1,232	29	22	B
N6QZS	CA	510	17	15	B
K9JM	CA	468	19	13	B
K6CSL	CA	91	9	7	B
KG6YPH	CA	80	10	8	B
K6GEP	CA	45	5	5	B
KG6ZHC	CA	40	6	4	C
<b>AD1C</b>	<b>CO</b>	<b>2,924</b>	<b>47</b>	<b>34</b>	<b>B</b>
<b>K7BG</b>	<b>MT</b>	<b>6,240</b>	<b>80</b>	<b>48</b>	<b>B</b>
NW7O	MT	260	20	13	B
<b>WA5ZUP</b>	<b>NM</b>	<b>1,404</b>	<b>52</b>	<b>27</b>	<b>C</b>
W7LAS	NV	4	2	2	B
N7VS	OR	646	22	17	B
KE7NVA	OR	9	3	3	B
<b>VE5BF</b>	<b>SK</b>	<b>338</b>	<b>26</b>	<b>13</b>	<b>B</b>
VE5BCS	SK	336	24	14	B
WA7ITZ	UT	714	24	21	B
K7RFW	UT	96	12	8	B
<b>AB7RW</b>	<b>WA</b>	<b>4,720</b>	<b>59</b>	<b>40</b>	<b>B</b>
WQ7A	WA	1,596	57	28	C
KN7T	WA	680	25	17	B
K7DNH	WA	81	9	9	B
KD7RHI	WA	25	5	5	B
<b>KO7X</b>	<b>WY</b>	<b>21,825</b>	<b>174</b>	<b>75</b>	<b>C</b>

# 2009 MiQP Multi-Operator Scores

## Michigan Multi-Operator/Multi-Transmitter

Callsign	Loc	Score	QSOs	Mults	Pwr	Ops
<b>K8XXX</b>	<b>BARR</b>	<b>726,525</b>	<b>2470</b>	<b>225</b>	<b>C</b>	<b>N8CC, KR8U, N8UUP, KD8GZG, W8DA, K8QKY, KT8X, K8KS, K8JVV, K8AQM, WA8ICK ND5S</b>
<b>K8MQP</b>	<b>LIVI</b>	<b>495,220</b>	<b>1703</b>	<b>220</b>	<b>C</b>	<b>K8CC, K8GLH, K8GT, KE8OC, W8MJ, W8UE</b>
<b>N9KI</b>	<b>MENO</b>	<b>228,374</b>	<b>808</b>	<b>178</b>	<b>B</b>	<b>K0SN, AA9PB, NS9I</b>
NV8N	MARQ	53,074	432	119	C	
K8ESQ	KALK	39,648	240	118	B	K8ESQ, N8CAK, KB8IPC
W8PIF	MENO	24,010	226	98	B	KS80, K9KI, KG8CX, W8SCO, K8MBI, KC9MLD, KC9FKE
KC8QZG	LUCE	12,483	171	73	B	KC8QZG, N8ATS, AB8LX
W8RU	BRAN	7,367	121	53	B	W8RU, AB8OJ, KC8VGG
W8RU	CALH	6,930	100	55	B	W8RU, AB8OJ, KC8VGG
W8RU	JACK	266	16	14	B	W8RU, AB8OJ, KC8VGG

## Michigan Multi-Operator/Single-Transmitter

Callsign	Loc	Score	QSOs	Mults	Pwr	Ops
<b>K8EPV</b>	<b>LAPE</b>	<b>187,000</b>	<b>840</b>	<b>170</b>	<b>C</b>	<b>AC8W, K8DD, K8WMW, KA8IEO, KD8HBX</b>
<b>WD8S</b>	<b>OGEM</b>	<b>146,624</b>	<b>587</b>	<b>158</b>	<b>B</b>	<b>K8TRF, K8JV, N8KV, WD8S</b>
<b>N9FN</b>	<b>ALLE</b>	<b>103,092</b>	<b>438</b>	<b>142</b>	<b>B</b>	
KX8D	PRES	40,420	430	94	C	KX8D, N8JML
KD8CQC	KENT	29,575	325	91	B	KD8CQC, KC8KCU
W8ZHO	MUSK	27,260	254	94	B	
N8LC	HURO	17,862	226	78	B	
K8KHZ	OAKL	17,143	196	79	C	
KD8CCX	SANI	10,200	150	68	B	
W8CWN	WASH	8,536	102	44	B	K8ELR, KB6NU, KD8GWX
W8SH	INGH	6,815	91	47	B	
K8PL	DELT	1,716	52	33	B	
N8YSS	CRAW	414	23	18	B	

## Non-Michigan Multi-Operator/Single-Transmitter

Callsign	Loc	Score	QSOs	Mults	Pwr	Ops
<b>K0RC</b>	<b>MN</b>	<b>21,791</b>	<b>204</b>	<b>77</b>	<b>B</b>	
<b>N2BJ</b>	<b>IL</b>	<b>6,902</b>	<b>114</b>	<b>58</b>	<b>C</b>	<b>N2BJ, K2PAC</b>
<b>W3AG</b>	<b>PA</b>	<b>2,784</b>	<b>48</b>	<b>29</b>	<b>A</b>	
W4FCR	VA	1,488	35	24	B	W4GNS + packet
K0TV	NH	187	15	11	C	

## Emergency Operations Center Stations

Callsign	Ctys	Score	QSOs	Mults	Pwr	Ops
<b>W8OAK</b>	<b>OAKL</b>	<b>76,035</b>	<b>431</b>	<b>137</b>	<b>B</b>	<b>AB8JR, KB8POD, KD8ATK, KD8CMD, KD8DLV, KJ80, N3BEL, N8AO, N8ZSA, WF5X, WU8Y</b>
<b>K8UNS</b>	<b>WAYN</b>	<b>69,732</b>	<b>348</b>	<b>117</b>	<b>C</b>	<b>N8MR, K8AZT, K8HW, WX8YZ, K6VEM</b>
<b>W8DC</b>	<b>KENT</b>	<b>14,707</b>	<b>190</b>	<b>77</b>	<b>B</b>	<b>N8DGD, AB8ND, W8DER, KD8CAN, KB8AFS, KD8GUX, KD8KTQ, KD8NCS</b>
K8OSE	OSCE	8,211	119	69	B	
W8QQQ	SHIA	6,656	104	64	C	WB8GUS, W8TEK, AB8VS
WC8EOC	INGH	3,795	71	33	B	KA8DDQ, K8RDN
WC8RC	WASH	1,696	53	32	C	W8ISS, WB8TKL, N8KSL, K8ELR
K8GC	WAYN	144	12	12	B	KA8UZE, KC8QZQ

# 2009 MiQP Mobile Scores

## Rover-Mobile/Multi-Operator

Callsign	Ctys	Score	QSOs	Mults	Pwr	Ops
<b>K8MR/m</b>	<b>25</b>	<b>179,809</b>	<b>817</b>	<b>119</b>	<b>B</b>	<b>K8MR,AC8E</b>
K8IR/m	14	122,661	649	99	B	K8IR,KG9GH
N8KR/am	16	3,498	90	33	B	N8KR,Jerry Larsen

## Rover-Mobile/Single-Operator

Callsign	Ctys	Score	QSOs	Mults	Pwr
<b>K9TM/m</b>	<b>12</b>	<b>64,242</b>	<b>413</b>	<b>83</b>	<b>B</b>
W8CAR/m	10	43,588	330	68	B

# 2009 MiQP Club Competition

## Michigan Clubs

Adrian ARC 859,383	K8XXX	726,525
	NU8Z	76,874
	K8KIC	24,991
	KC8A	10,519
	N8AMM	7,626
	W8IQO	5,900
	N8KR/am	3,498
	K8ADM	3,450

Blossomland ARA 325,532	N8SS	216,180
	KX8D	40,420
	K9RON	36,084
	KD8GRG	10,050
	N8MS	9,933
	N8KBG	6,254
	KC8YEJ	2,501
	K8TMK	2,360
	W8JBA	1,750

Eastern Michigan ARC 284,041	K8EPV	187,000
	K8MM	96,480
	K8JLB	561

USECA 161,828	K8RDJ	79,440
	N8ZBA	63,139
	N8UO	16,116
	KD8JDC	1,600
	KC8C	1,470
		AC8AI

L'Anse Creuse ARC 122,542	K8RO	94,047
	N8LC	17,862
	K8VFR	3,828
	K8EO	3,760
	WA8BIJ	3,045

Delta County ARS 129,472	K8AO	125,356
	WD8RTH	2,400
	K8PL	1,716

SEMDXA 120,747	K8NWD	43,792
	K8ESQ	39,648
	KK8I	30,597
	N8GUZ	6,710

Soc of Midwest Contesters (MI) 120,235	N9FN	103,092
	K8KHZ	17,143

ARROW Communications Assn 51,403	KT8K	36,575
	W8CWN	8,536
	WD8RWI	3,400
	WC8RC	1,696
	N8SBE	1,196

Hazel Park ARC 50,245	N8NX	37,715
	N8AE	7,280
	KE8UM	4,872
	W9NPI	378

Mich State University ARC 25,526	NF8M	18,711
	W8SH	6,815

Alabama Contest Club 2,260	W4NBS	1,885
	W6GBG	375

West Park Radiops 2,192	W8IDM	1,950
	AF8C	242

## Non-Michigan Clubs

Frankford Radio Club 58,769	WA2VYA	36,096
	N8NA	22,673

South East Contest Club 48,674	KU8E	36,036
	K1ZZI	6,630
	N4GG	2,300
	K4BAI	3,708

Florida Contest Group 43,694	N4IG	19,728
	WJ9B	14,656
	K9OM	6,400
	N4PJ	1,470
	N4BP	1,440

Yankee Clipper Contest Club 39,391	NT2A	20,720
	WO1N	7,722
	W1END	3,074
	KV1J	2,112
	W1TO	3,132
	AE1T	900
	KD2MX	900
	WA1Z	644
	K0TV	187

Minnesota Wireless Assn 30,738	K0RC	22,594
	K0MPH	5,136
	K0TK	3,008

Mad River RC (non-MI) 29,064	AD8J	22,098
	W3AG	2,784
	WB8JUI	4,182

Grand Mesa Contesters of Colorado 24,749	K07X	21,825
	AD1C	2,924

Tennessee Contest Group 23,338	KS4X	1,456
	K4LTA	8,424
	NA4K	7,900
	W4BK	2,584
	N4DW	1,134
	N2WN	1,840

Soc of Midwest Contesters (Non-MI) 19,548	K0JPL	8,586
	N2BJ	6,902
	W9RE	4,060

Potomac Valley Radio Club 18,055	K3TW	7,050
	W4RQ	6,109
	W4AU	4,896

Hudson Valley Contesters & DXers 10,194	WA2JQK	2,310
	N2SQW	7,884

Northern California Contest Club 9,109	K6DGW	5,852
	AF6EV	1,386
	K6KQV	1,232
	K9JM	468
	K6CSL	91
	KG6YPH	80

Bergen ARA 5,336	K2DSL	3,936
	WA2LXE	1,400

Contest Club Ontario 2,904	VE3CR	2700
	VE3NB	204

Kentucky Contest Group 2,648	K4WW	2,600
	AI4G	48

# 2009 MiQP Michigan Counties Worked

Michigan Stations				Non-MI Stations					
K8XXX	70	KD8EEA	34	W8SH	5	W1END	29	N7JXS	17
K8MQP	65	KK8I	34	AC8AI	4	W3AG	29	NV9X	17
K8CIT	58	N8WY	34	WC8EOC	4	K0TK	28	WA7ITZ	17
NV8N	58	NR9B	34	N8SBE	3	K4BAI	28	AA5JG	16
K8OSE	56	W8RIT	34	WD8RWI	2	N9HDE	28	KN7T	16
K8AO	55	KE8UM	33	KU8E	67	WQ7A	28	NS8O	16
K9RON	55	KI8Z	33	WA2VYA	64	AB2TC	27	W4ZPR	16
NN8L	55	W8IQO	33	AD8J	62	K4BSK	27	WU2S	16
KD8CQC	53	WD8RTH	33	NT2A	55	KJ4AOM	27	K1SO	15
N9KI	53	K8EO	32	N4IG	54	N0LY	27	KC4EZN	15
W8PIF	53	K8GVK	32	N8NA	54	N9AUG	27	N5HMH	15
K8MM	52	W8JRK	32	K0RC	53	VE3CR	27	N6QZS	15
K8RO	52	AB8XU	31	KO7X	53	W1TO	27	N7VS	15
KD8AUZ	52	K8TMK	31	N2BJ	53	W4BK	27	W6GBG	15
N9FN	52	KC8YEJ	31	W1DWA	53	WA5ZUP	27	K8JLB	14
WD8S	52	N8UO	31	KA3QLF	52	K4WW	26	KB9S	14
K8EPV	51	NF8M	31	N6MU	51	KS4X	26	VE5BCS	14
N8SS	51	K8KIC	30	VA7RN	51	AE8M	25	VE5BF	14
WB8WKQ	51	KC8ITI	30	N3RJ	49	K3TX	25	W5ESE	14
N8M	50	KT8K	30	KW3A	47	N3TG	25	WA1Z	14
N8ZBA	50	K8IY	29	K9BTQ	44	N4GG	25	K4MSH	13
W8ZHO	50	W8AWE	29	W2UJ	44	W8IDM	25	N1NN	13
W8OAK	49	K8IR	28	WJ9B	44	W9OA	25	NW7O	13
KD8CCX	48	KD8GOX	28	K8JQ	43	KV1J	24	VA7DM	13
N8OC	48	N1IW	27	KB3LIX	42	N4BP	24	K9JG	12
K8ESQ	47	N8AE	27	W0MR	42	VE4EAR	24	K9JM	12
N8LC	47	WB8WIV	27	AB7RW	40	W6KC	24	KC4YBO	12
N8LMT	47	KC8A	26	N2SQW	40	WA2JQK	24	N3KN	12
WA1UJU	46	WB8LZA	26	W8TM	40	XM2AWR	24	VE3NB	12
K8SAK	45	W8JBA	25	K1ZZI	39	K4ORD	23	AF8C	11
KD8GRG	45	WC8RC	25	K4LTA	39	K9EN	23	KD4MZM	11
WZ8T	44	K8DSL	24	K0JPL	38	N2WN	23	KJ4CNC	11
KG8N	43	W8NGO	24	K7BG	38	N8XTH	23	K0TV	10
KX8D	43	K8DLM	23	N4CD	38	W4NBS	23	K7DNH	9
W8WVU	43	K8PL	23	W4RQ	38	W9AEM	23	NO5W	9
K8KHZ	42	N8NX	20	W01N	38	W9WE	23	K7RFW	8
K8NWD	42	N8PUG	20	W3WC	37	K2HT	22	KF0F	8
K8UNS	42	W8WOJ	20	K9OM	36	KD5JHE	22	KG6YPH	8
KG8P	42	KC8C	19	KB9YGD	36	AA9KH	21	VE3HUR	8
N8MRC	41	KD8JDC	19	NA4K	36	AF6EV	21	VA3HUN	7
N8MS	41	N8EA	19	W4AU	36	N4DW	21	AI4G	6
W8QQQ	41	W8ETN	19	K0MPH	35	N4MM	21	K0PIR	6
WI8A	41	W8RU	18	W0BH	35	N4PJ	21	K6CSL	5
K8MAD	40	WA8UMT	18	W0VX	35	W5JBV	21	KC4MYV	5
K8SB	40	W8RU	17	W9RE	35	WB5RYB	21	KD7RHI	5
N8GUZ	40	K9TM	16	K3TW	34	K4VIG	20	K6GEP	4
W8DC	40	N8YSS	16	K6DGW	34	K6KQV	20	KB5DRJ	4
N8AMM	39	W8CAR	15	NR8U	34	N1LU	20	AI9I	3
K8ADM	37	N8KR	14	W2CVW	34	N9WEW	20	K4GOP	3
N8KBG	37	W8MKR	14	W2UDT	34	W0PQ	20	KE7NVA	3
N8MME	37	K8VFR	13	WN8P	34	W5CSM	20	VE2AXO	3
K8MR	36	KC8TQB	12	WB8JUI	33	WA2LXE	20	KG6ZHC	2
K8NB	36	W8TOM	10	WR9Y	33	KD0JBN	19	KJ4IQL	2
KD8JAM	36	KC8YFG	9	K2DSL	32	KI4LXT	19	KL7/AH0AH	2
AA8SN	35	NM8R	9	K2SX	32	W4FCR	19	W7LAS	2
K8AAX	35	W8RU	9	K4NV	32	AE1T	18		
K8RDJ	35	WA8BIJ	9	AD1C	31	KD2MX	18		
KC8KI	35	W9NPI	7	N9QS	31	KI4MPX	18		
KC8QZG	35	K8GC	5	W1KDA	31	KT4RH	18		
NU8Z	35	KD8CAO	5	AE1P	30	W7KAM	18		
AC8DO	34	W8CWN	5	KB1ODO	29	KE7GRL	17		

DX Stations	
CU2JT	39
OK1AOV	13
LY2ZZ	4
PA3ARM	2