

----- The Official Journal of the Mad River Radio Club -----

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Western PA	Scott Jones, WB3KKX	(412) 347-1900

BIG FISHING AROUND

de John Tymensky, NBCXX

Surprise!!! Yes, there is still a Mad River "BIG FISH" around. All is going well here. With the contest season half over, it's time to relax and become re-acquainted with the world around you. I am now the first one to the dinner table, I want to watch my movies and I even have a smile on my face.

FINDLAY MEETING - Mrs. Kelsey, with the help of Mrs. Stahl, supplied another great feast for those who attended the Findlay pre-meeting at the home of NBET. Thank you.

The Findlay Hamfest supplied many with the items required to make that much need gadget. The MRRC meeting saw many new faces, as well as the old, join the ranks. Our roster of active members is growing, which was noticeable in the recent SS. If all who were heard send in their logs, MRRC should do well.

To those that are new to MRRC, WELCOME! If at any time you have some questions about whatever, show up on the Monday Night MRRC net or call one of the newly appointed Regional Vice-Presidents.

NEW IDEAS - Dave has come up with an identification system that will categorize all the members by their station capability. This will give us some idea of what the other guy has.

MRRC has printed many "HOW TO's" in the past. Would some member out there be willing to gather this information, index it, then assemble it? We could list the titles in the 'FLASH' and then make them available.

CONTEST RUMORS - Elsewhere in the 'FLASH' is a listing of all MRRC scores we have heard from the various contests. If you were active, please send your summary sheet to Jeff, KUBE. CQ Magazine requires the club to submit a total score, whereas the ARRL only requires a list of all members. We would like to know where we stand before we read about it.

SS CERTIFICATES - Many years ago, MRRC purchased some award certificates for SS. When the results are printed, we will issue them to all stations that participated. Each color will signify level, i.e. 100K, 200K, and 300K for combined scores.

That's it for now. I wish everyone a Merry Christmas and a Happy New Year. See you at the Christmas Party!

FROM THE EDITOR
de Dave Pruett, KBCC

Yes Virginia, there is still a Mad River 'Flash'.... Once again, this editorial begins with an apology for the lateness of this issue. Building a station takes a lot of time in preparation for CQWW and SS, and unfortunately this work took precedent over the "FLASH". Five contests in eight weekends were attempted from KBCC, around 6300 QSOs and 5 million points towards the MRRC effort. Now that winter is here (and I don't want to work outside any more), hopefully we will be back on track.

One thing which impairs the publication of a newsletter is when the editor has nothing to publish! A couple of MRRC members have offered to help edit the 'FLASH', but what is really needed is for people to write news, articles, tips, etc. Megathanks from a weary editor go to AD2C, WD9INF, KE8OC and KBMR for their contributions this issue. Another thing that would help here is with score rumors. If you have a score to contribute, please try to make the MRRC Monday Night net the day after the contest, and I can collect the scores all in one place.

The roster which is enclosed with this issue is current as of the Findlay meeting. Remember, you must have paid your dues to be a member, receive the newsletter, and submit scores for the club. Another point to mention, at the suggestion of club treasurer NB8TU, is that MRRC dues come due every April at the Dayton Hamfest meeting. Please try to keep this in mind, for it will help minimize any question as to dues status.

The roster in this issue also contains a breakdown of the membership via regional area, which contains information concerning station hardware associated with that particular member. This is not intended to inflate egos nor embarrass anyone, but is included to help all of us better identify the resources of each MRRC member. If you have no station and want to operate, a call to a local category "A" station might land you a spot on a multi-operator team. Similarly, for the multi-op station owners, if you find a local listed with no station, you might make a call and acquire another operator for your crew. Regional VP's can use this list to keep up-to-date on activity in their area. Above all, don't anybody be shy, for we are all shooting for a common goal.

Club activity seems to be picking up, perhaps due to the improved band conditions which we have been blessed with recently. Activity breeds more activity, and a fundamental part of this is communication between the membership. Packet radio is proving to be an integral link between members - see the packet update in this issue to learn what MRRC is pursuing via the digital mode. Check it over, find out who the locals are in your area and get involved.

As this is being written (middle December), the CQ World Wars and ARRL Sweepstakes are over. Christmas is upon us, and beyond that, the ARRL DX Contests. Because of club competition rules being what they are, MRRC concentrates on the ARRL contests where we have historically been very competitive. Now is the time to get ready for the ARRL DX Contests in February (CW) and March (SSB). While DX activity is not quite as high as in CQWW, the DX-works-W/VE format turns their attention towards North America and makes it easier for small and medium guns to work lots of stations. This year we hope to have the Regional VPs coordinate activity to ensure the best possible club turnout. GO MAD RIVER!!!

Hope to see everyone at the KBMR Christmas Party.

MAD RIVER NEWS

TOWER TESTIMONIAL - The new tower is up at KEBOC (ex-KABPLH). It is 40 feet of Trylon ABC tower which is self-supporting and rated for 34 square feet of wind at 20 psf (70 MPH). Attached to it are a Cushcraft A4 tribander at 50', and a trapped 80/40 dipole at 40'. Plans call for a two element 40m beam to be added in the spring, and some sort of 160m antenna as yet to be determined. The noteworthy part of this installation is the tower, which appears to be very well designed and constructed steel tower, and is available at the above mentioned rating at heights up to 72 feet. Compare this to the Rohn HDBX towers which are rated at 18 square feet at 20 psf with a maximum height of 48 feet and you can see the advantages this tower has. They also have heavier rated towers with reduced height, the heaviest being rated for 18 square feet at 40 psf (100 MPH) at 56 feet. So if you have a small lot and don't like the idea of guy wires, here is a tower you can put that monster array on.

WB10 FIELD DAY REPORT - The Mad Walleye/MRRC Field Day group with operators WB10, KB0QM, and WD9INF operated in class 1A from the "Black Swamp Land" of Sylvania Township in the Toledo area. The setup included inverted vees for 80 and 40 at 35 feet and a 2L "optimized" tribander at 30 feet. A Kenwood TS820 performed well without the aid of the backup Yaesu FT107M. Since setup was begun Saturday morning, we only operated 24 hours. With the exception of running the generator dry at 3 AM, all ran exceptionally well. Kurt, WB10 was responsible for all but 15-20 CW QSOs, leaving the phone work for AQM and INF. Besides the typical band-by-band totals, the following observations/statistics can be reported:

1. Of our 1224 QSOs, 776 (63%) were with stations we worked only ONCE in the contest.
2. We logged 43.5% of our QSOs on CW, but they were worth 60.5 % of our QSO points.
3. The overall rate yielded 51 QSOs and 73.2 points per hour.

BAND	CW	SSB
80	204	264
40	193	302
20	86	98
15	49	28

totals	532	692
points	3712	

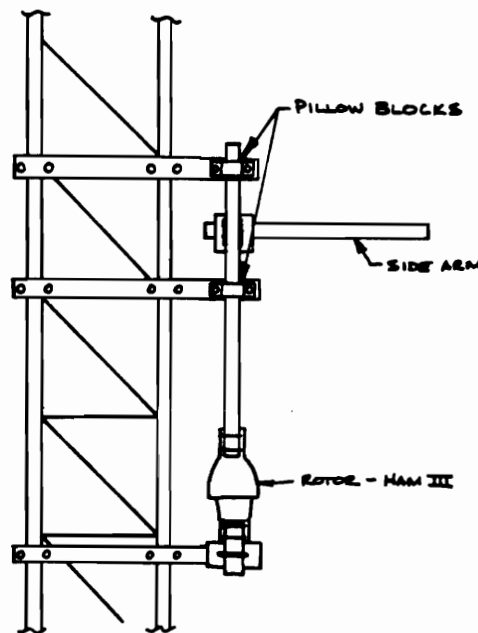
WINTER WEATHER ASSAULTS MAD RIVER - Mid December brought severe winter weather with high winds and/or icing to MRRC country. The Detroit area saw winds between 40 and 70 MPH for more than a full day, with one observation site reporting a peak of 101 MPH! WBUA lost the top of one 80m vertical, while KBCC had his 40m beam spun on the mast 45 degrees. NBCXX lost an 80m vertical when a tree limb fell on a guy rope, plus damage to his rotator and the 5L 15m beam. KBAZ lost the reflector to his 4L KLM 40, but the most severe damage appeared to be sustained by the K3LR station, where his 4L KLM 40m beam (parked at the 30' level on a crank-up tower) was bent in half! Hopefully, all this MRRC damage will be repaired in time to be QRV for the ARRL DX Contests in February/March.

ROTATING SIDE ARM
FOR SMALL TO MEDIUM SIZE YAGIS
By Jay Ryno, AD8C

Over the past five years, I have had two rotating side arm assemblies mounted on my tower. The first was a direct copy of a design presented by K5QY in CQ (Feb. 1981). This design lasted a few months, then failed due to rust. In addition, the antenna was not rotatable through its full arc because of lateral forces applied to the rotator.

The second, and present design has been in place for about five years, has been trouble free, provides rotation through 280 degrees, and allows the use of a smaller rotator since lateral forces on the rotor are reduced.

Below is a diagram of my present sidemount (not to scale):



The antenna mast is supported by two "pillow blocks" mounted to the supporting brackets, one above and one below the sidearm. This removes much of the lateral forces from the rotator, and all of the vertical forces. Neither the antenna or rotor masts are pinned, but instead have "set" bolts. This allows for some slippage.

The distance from the tower leg to the rotator centerline determines, to some degree, the amount of rotation obtainable. In my case this distance is about six inches, which allows about 280 degrees of rotation. The beam boom-to-mast clamp is rotated horizontal on the boom, and the antenna is simply bolted to the side arm.

The present antenna mounted on the sidemount is a modified Cushcraft 15-4CD. The system is mounted on a 100' Rohn 456 tower at the 55' level. The antenna fires through two sets of guy wires, but no signal deterioration has been noted. The entire system has been most satisfactory, providing trouble-free operation for the past five years.

GETTING TO KNOW MAD RIVER

Editor's note: "Getting to know Mad River" is a new feature for the "FLASH", where we will try on a regular basis to feature several MRRC members and their stations.

WD9INF, Ken Rogner - Ken's station currently sports two 100' towers. The yagis are: 4L 10m yagi at 110', 4L 15m yagi at 100', 4L/4L 20m yagis at 100'/50' and 2L 40m yagi at 110'. The towers also hold an 80m 2L Special at 98', a 160m 2L Special at 95' and an 80m inverted-V at 98'. Inside equipment includes Yaesu FT901DM and Yaesu FT102 xcvs, with Dentron 160-10L and Amp Supply LK500ZA amplifiers. Ken is located in the Toledo area, but often joins forces with the KBAQM gang over in Adrian.

W8RHD, Rick Pugh - Originally licensed in 1977, Rick recently resumed activity due to the Novice Enhancement and joined MRRC at the Findlay meeting. Now upgraded to General class, his current station is a Yaesu FT107M to a Huster trap vertical, with plans for a beam next summer. Long time compadre of KBCC, he assisted with much of the antenna progress made at that station this past summer, and is part of their multi-op crew.

MRRC PACKET REPORT

MRRC packet activity continues to grow. Members currently known to be QRV include: KBCC, WBUA, NABV, KNBS and KBJM in Michigan, KBAZ, KBMR, KBNZ, NBAA and WSKIC near Cleveland, KBND and ADBI near Columbus, NBET near Findlay, WM41 and N4TY in Kentucky, and K3TUP in WPA. If you are on packet and you are not listed above, let KBCC know via landline, letter, or a packet message at BBS W800H.

MRRC experiments with packet DX spotting networks have had mixed results. KBCC and KBAZ attempted to establish a link between Detroit and Cleveland for CQWW SSB, but the connection appeared to be unreliable. For CQWW CW, the crew at KBAZ was assisted via packet by NBAA and WSKIC, but the lack of multi-user capability required that the spotting stations disconnect after passing their info to allow others to connect.

It is apparent that multiplier spotting demands multi-user capability. At this time there appears to be at least two ways to accomplish this. There is a chip available for TNC-2s which allows up to six users to connect. KBCC tried one of these chips during CQWW SSB, which would be a good choice for a local area spotting net. The deluxe solution is the Packet Cluster Software from AK1A. This software, which requires an IBM PC or clone plus a Kantronics KPC-2 TNC, is a full blown BBS with options and commands designed for DX spotting. The software allows up to 26 users at each cluster (called a node). Multiple nodes, each with a PC/KPC-2, can have links established between them to create one large network where any user can see information from any other user. A MRRC possibility would be one node in Cleveland and another in Detroit, with a link between them. This would require high ERF at the node stations, but as KBCC and KBAZ have demonstrated, it is possible.

Packet is certain to be a major topic of conversation at the MRRC Christmas Party. MRRC now has packet activity in all of its major geographical areas, so it is important that we develop a plan to utilize this new mode.

MRRC SCORE RUMORS**CQWW SSB**

K3TUP (multiop)	2505/152/507	WBIQ (21 MHz)	215/24/75=57k*
K8CC (multiop)	1588/143/423=2.4M*		
N8CXX (multiop)	1466/141/421=2.3M*		

SWEEPSTAKES CW

K3LR	179400-1196-75-B*	K8ND	117822- 807-73-A*
W8BIXE	157620-1065-74-B	K8BM	117292- 826-71-A*
K8AZ (op. K8NZ)	156288-1056-74-B	W8UPH	85484- 602-71-B
W8AT (op. K8BE)	151552-1024-74-B	K8CC	43420- 334-65-B*
N4TY	148628-1018-73-B	KN8S	30080- 235-64-B
W8FN	147752-1012-73-B	N8CSL (op. K8MR)	28160- 220-64-B
		K8MR	1806- 43-21-A

SWEEPSTAKES SSB

W89INF (multiop)	244200-1628-75-B	N8ATR	113700- 758-75-B*
K8CC (+W8WD, W8RHD, KE8OC, KN8S)	214500-1430-75-B*	W8UPH	75402- 531-71-B
N8CXX (+N8BIU, K8JM)	205050-1367-75-B*	W8FN	40500- 375-54-B
		K8NZ	31560- 263-60-A
		K8MR	11340- 135-42-B

CQWW CW

K3LR	1747/148/372	WBIQ (15M)	207/25/70=52k*
N8BV	1546/151/344=2.2M*	W83KKX (40M)	695/36/95=230k
K8CC	1587/136/327=2.1M*		
K8AZ (multi-single)	1959/165/454		

ARRL 160M

W8LT	182K-952-91* (multioperator)
W8FN	82K-504-79*

ARRL 10M

K8III (op. W83KKX)	1526 x 96 (SSB)
K8CC (op. W8WD)	1378 x 87 (SSB)

* - denotes final duped score

Editor's note: If your score isn't listed, you probably didn't turn it in!

SWEEPSTAKES RECORDS FOR MICHIGAN

HI POWER

CW		SSB	
83 WABYVR	159100-1075-74	78 KBLX (WABZDT)	223200-1488-75
78 KBLX	153150-1021-75	81 KBLX (WABZDT)	222592-1504-74
83 KBCC	152144-1028-74	79 KBLX (WABZDT)	212528-1436-74
86 KBCC	151848-1026-74	74 WABYVR	204092-1379-74
77 KBLX (WABZDT)	151694-1039-73	72 WABZDT	187738-1272-74
81 KBCC	147852-1045-72	78 K9DK/8 (WB9DZ5)	186000-1240-75
79 WBUA (WABZDT)	147852- 999-74	78 W8FF	182650-1215-75
81 KBLX	147852- 999-74	77 WBRC	174900-1166-75
84 KBCC	146964- 993-74	75 WABZDT	168338-1153-73
79 KBLX	146438-1003-73	83 KBCC	167184-1161-72

LO POWER

CW		SSB	
74 WBCQN	137492- 929-74	83 WDBMGO	154364-1043-74
76 WBCQN	131254- 899-73	85 WDBMGO	151548-1038-73
75 WBCQN	116060- 829-70	84 WDBMGO	125060- 845-74
77 KBIF	113734- 779-73	76 WBTR (WABPSD)	117718- 829-71
81 NBEA	103660- 730-71	82 WDBMGO	116476- 787-74
76 WABZAV	102528- 712-72	78 WBLAQ	113442- 777-73
78 WABMAM	102120- 690-74	80 WBJWN	107448- 726-74
79 WABMAM	101616- 696-73	76 WABWWM	106642- 751-71
78 WBLAQ	101388- 714-71	76 KBIDE (KBTR)	106050- 707-75
76 WSSH (NBSR)	100944- 701-72	79 WBJWN	104932- 709-74

MULTI-OP

CW		SSB	
77 WBUM	125720- 898-70	83 WD8CRY	192992-1304-74
86 KBAQM	120960- 840-72	81 KBSS	182208-1248-73
80 WBUM	110016- 764-72	86 WSSH	179672-1214-74
79 WBUM	105376- 712-74	82 WD8CRY	179376-1212-74
84 KBJRK	102200- 700-73	85 WSSH	176860-1195-74
83 KBAQM	100196- 677-74	80 WD8CRY	173308-1171-74
74 W8FUD	97056- 674-72	81 WD8CRY	158264-1084-73
75 WBUM	91254- 681-67	84 WD8CRY	157916-1067-74
79 W8BYDR	81030- 555-73	82 KBSS	150672-1032-73
82 KBJM	79626- 577-69	79 WBUM	144448- 976-74

SWEEPSTAKES RECORDS FOR OHIO

HI POWER

CW		SSB			
78	KBNZ	161320-1090-74	78	WBKIC (WB8MZZ)	219450-1463-75
78	K8MR	158508-1071-74	81	KBND (WB8MZZ)	217412-1469-74
81	KBNZ	157916-1067-74	76	WABFLZ (WB8AYC)	213014-1459-73
78	WBWPC (K8BPX)	156584-1058-74	77	WBKIC (WB8MZZ)	208800-1392-75
77	K8MR	154216-1041-74	78	KBAZ	207150-1380-75
80	KBNZ	152884-1037-74	78	K8MR	205350-1369-75
77	W8YWX (K3LR)	151552-1024-74	81	K8MN	204832-1384-74
76	WBEDU (K8MR)	146730-1005-73	79	WB8MZZ	202464-1368-74
77	WBKIC	146438-1003-73	82	KBND	199208-1346-74
83	WBWPC (N9AG)	140008- 946-74	82	W8JI (WB8MZZ)	196988-1331-74

LO POWER

CW		SSB			
79	K8EKG	116800- 800-73	81	K8EE	118114- 809-73
82	K8BL	110016- 764-72	82	K8EE	113150- 775-73
82	K8BE	109872- 763-72	86	K8BM	108624- 744-73
83	K8BE	109520- 740-74	80	WA6EZV/B	104340- 705-74
78	K8EKG	108216- 752-72	83	K8BJH	100010- 685-73
85	K8BE	107596- 727-74	80	K8BD	98532- 714-69
85	K8BM	103392- 718-72	75	WB8MZZ	96702- 681-71
84	K8EE	102816- 714-72	78	W8BALG	94572- 639-74
86	K8BM	102528- 712-72	85	K8BL	93024- 646-72
79	WBKRR	102346- 701-73	80	K8EE	92880- 645-72

MULTI-OP

CW		SSB			
83	WB8JBM	161616-1092-74	85	WB8JBM	255744-1728-74
82	WB8JBM	154944-1076-72	83	WB8JBM	229252-1549-74
81	WB8JBM	154322-1057-73	86	WB8JBM	228068-1541-74
84	WB8JBM	150088-1028-73	82	WB8JBM	205128-1386-74
74	WB8JBM	147022-1007-73	80	KBND	202464-1368-74
79	KBND	142080- 960-74	81	WB8JBM	202464-1368-74
81	KBND	141044- 953-74	80	WB8JBM	201918-1383-73
78	WB8JBM	138380- 935-74	79	WB8JBM	200096-1352-74
80	WB8JBM	137232- 953-72	79	KBND	196544-1328-74
86	W8LT	135716- 917-74	78	WB8JBM	195932-1342-73

MAD RIVER RADIO CLUB

AA6CV	JOE WARDEN	P.O. BOX 314	RANCHO SANTA FE, CA	92067	(619) 756-1092
AA8S	FRED STILLWELL	38565 BIGGS RD.	GRAFTON, OH	44044	(216) 926-2131
AD8C	JAY RYND	10363 GROVE RD.	BLUFFTON, OH	45817	(419) 358-1189
AD8I	JOE SUBICH	7825 SR 188	CIRCLEVILLE, OH	43113	(614) 477-1373
A18S	KEN STENBACK	722 LYNDON AV.	ASHTABULA, OH	44004	(216) 964-7316
K3LA	BARNEY SCHOLL	P.O. BOX 673	SHARON, PA	16146	() -
K3LR	TIM DUFFY	259 N BUHL FARM DR. #6	HERMITAGE, PA	16148	(412) 347-2698
K3TUP	JOHN KANZIUS	8210 FRANKLIN RD.	GIRARD, PA	16417	(814) 474-2402
KBAQM	TED RACHMAL	1600 WOLF CREEK HWY.	ADRIAN, MI	49221	(517) 263-4066
KBAZ	TOM LEE	7275 SURREY LN.	CHESTERLAND, OH	44026	(216) 729-8104
K8CC	DAVE PRUETT	2727 HARRIS RD.	YPSILANTI, MI	48198	(313) 481-0755
KBJM	JOHN MILLETT	1206 ROSEWOOD	FERNDALE, MI	48220	() -
K8MR	JIM STAHL	30499 JACKSON RD.	CHAGRIN FALLS, OH	44022	(216) 831-6954
K8ND	JEFF MAASS	9256 CONCORD RD.	POWELL, OH	43065	(614) 873-3234
K8NZ	RON HARPS	8321 EDGEWOOD RD.	MENTOR, OH	44060	(216) 255-7205
KA3QED	HARDLD HARRINGTON	2085 BESTWICK RD	MERCER, PA	16137	(412) 662-2834
KABHFD	DICK BENNETT	275 FORWARD PASS	PATASKALA, OH	43062	(614) 927-2211
KABPOW	CHUCK HANNEMAN	4123 SENECA HWY.	CLAYTON, MI	49221	(517) 445-2570
KBBWC	JACK BRICKER	6664 PINETREE	MENTOR, OH	44060	(216) 255-7545
KCBMK	JIM HURT	P. O. BOX 20271	COLUMBUS, OH	43220	(614) 442-0324
K8BNS	MIKE TOPE	2160 SUMMIT AVE. #B3	COLUMBUS, OH	43201	(614) 447-9203
KEBFX	BOB HALL	760 N MAPLE GROVE	HUDSON, MI	49247	() -
KEBDC	TIM O'SULLIVAN	744 FOOTHILL	CANTON, MI	48188	(313) 397-9732
KJ3L	JIM SPINKS	2561 E GRANDVIEW	ERIE, PA	16510	() -
KNBS	JOHN SULLIVAN	1731 WALNUT RIDGE CIRCLE	CANTON, MI	48187	(313) 981-2641
KN8Z	JOHN SELLER	4925 S. HAMILTON RD.	GROVEPORT, OH	43125	(614) 836-3376
KQBM	TIM HERRICK	BOX 5127	WILLOWICK, OH	44094	(216) 257-7042
KS8S	DEAN SCARBROUGH	505 BUTTERNUT ST.	DESHLER, OH	43516	(419) 278-2162
KUBE	JEFF CLARKE	72 W. FIRST AVE.	COLUMBUS, OH	43201	(614) 297-8043
KW8N	BOB HAYES	9192 BENDER RD.	N RIDGEVILLE, OH	44039	(216) 327-4710
N4TY	TYLER BARNETT	213 CAMELOT CT.	GEORGETOWN, KY	40324	(502) 863-5576
NOTW	TERRY WEBB	7550 PLACID AVE.	WORTHINGTON, OH	43085	(614) 436-8476
NBATR	PETE MICHAELIS	11725 POINT OVERLOOK PL.	STRONGSVILLE, OH	44136	(216) 238-3695
NBBTU	ALAN WEST	28472 CLEVELAND	LIVONIA, MI	48150	(313) 427-7981
N8CXX	JOHN TYMENSKY	12333 SANDY BOTTOM DR.	SOUTH LYON, MI	48178	(313) 437-7147
N8EA	JOE HOLSTEIN	1515 SASHABAW RD.	ORTONVILLE, MI	48462	(313) 628-0666
N8EKE	DAN SMITH	34 WILLIAMSON	YOUNGSTOWN, OH	44507	(216) 746-2353
N8ET	BILL KELSEY	2716 CR 26	MT. CORY, OH	45868	(419) 477-5378
N8BV	GREG CHAPOTON	45666 CASS	UTICA, MI	48087	(313) 739-4029
N8BW	DARL DEEDS	8753 TR 4B	FINDLAY, OH	45840	(419) 963-2442
NEBT	FRED STOCKING	28070 N CLEMENT CIRCLE	LIVONIA, MI	48150	(313) 421-0238
N1BL	SCOTT DETLOFF	500 W LAKE LANSING RD #C37	EAST LANSING, MI	48823	(517) 332-6425
NZ4K	PAT COLLINS	1253 DENNISON AVE. #3	COLUMBUS, OH	43201	(614) 294-8574
WBFN	RANDY FARMER	8115 S PALMER RD.	NEW CARLISLE, OH	45344	(513) 845-3331
WB1Q	KURT MEYERS	2376 DANA ST.	TOLEDO, OH	43609	(419) 385-6437
WBKIC	BOB EDWARDS	2525 EDGEHILL	CLEVELAND HTS, OH	44106	(216) 371-8765
W8UA	MIKE SOCHA	3757 BRIGHTON RD.	HOWELL, MI	48843	(517) 546-9269
WBUPH	BOB BENSLEK	820 CIRCLEVIEW DR.	TOLEDO, OH	43615	(419) 385-8082
WBWD	BRIAN PETKU	3911 DONALDSON	ROCHESTER HILLS, MI	48063	(313) 863-6340
WABBIN	RAY BROWN	24360 WESTWOOD	WESTLAKE, OH	44145	
WABRRR	RICK BERNARD	38911 LAPHAM	LIVONIA, MI	48154	(313) 591-7649
WB3KKX	SCOTT JONES	93 WHITE AV.	SHARON, PA	16146	(412) 347-1900
W88BAU	HOWARD D'CHOCKE	801 S JOHNSON	ADA, OH	45810	(419) 634-9451
W8BIVL	MIKE VALENTINO	6234 MENTOR PARK BLVD.	MENTOR, OH	44060	(216) 257-1254
W8BIXE	STEVE MILLER	220 FREYN DR.	CENTERVILLE, OH	45459	(513) 433-8090
W8LLD	GOOSE STEINGASS	1690 HONEYTOWN RD.	WOODSTER, OH	44691	(216) 262-6866
W8BRHO	RICK PUGH	516 MARIE	WESTLAND, MI	48185	(313) 595-7936
W89INF	KEN ROGNER	2520 CENTENNIAL RD.	TOLEDO, OH	43617	(419) 841-8781
WM4T	JOHN TERNES	60 LOCUST AV.	COVINGTON, KY	41017	(606) 331-0331

MRRC MEMBERS BY REGION

KENTUCKY

N4TY-b WM4T-b

MICHIGAN

KBAQM-a	K8CC-a	KBJM-d	KABPW-u	KEBFX-u
KEBOC-c	KNBS-b	NBBTU-b	NBCXX-a	NBEA-b
NABV-a	NEBT-b	N18L-u	WBUA-a	WBWD-n
WABRRR-b	WDBRHO-d			

NORTHWEST OHIO

AAB5-u	AD8L-b	KS8S-a	N8ET-a	NABW-u
WB10-u	WBUPH-b	WBBBAU-u	WD9INF-a	

NORTHERN OHIO

KBAZ-a	K8MR-c	K8NZ-b	K8BWC-u	K8BM-b
KW8N-a	N8ATR-b	W8KIC-c	W8BIN-u	W8BIVL-b
W8LLD-b				

CENTRAL/SOUTHERN OHIO

AD8I-n	K8ND-b	K8HFU-b	K8BMK-u	K8BNS-u
KN8Z-a	K8BE-n	NZ4K-n	W8FN-b	W8BIXE-b
NOTW-u				

PENNSYLVANIA/EAST OHIO

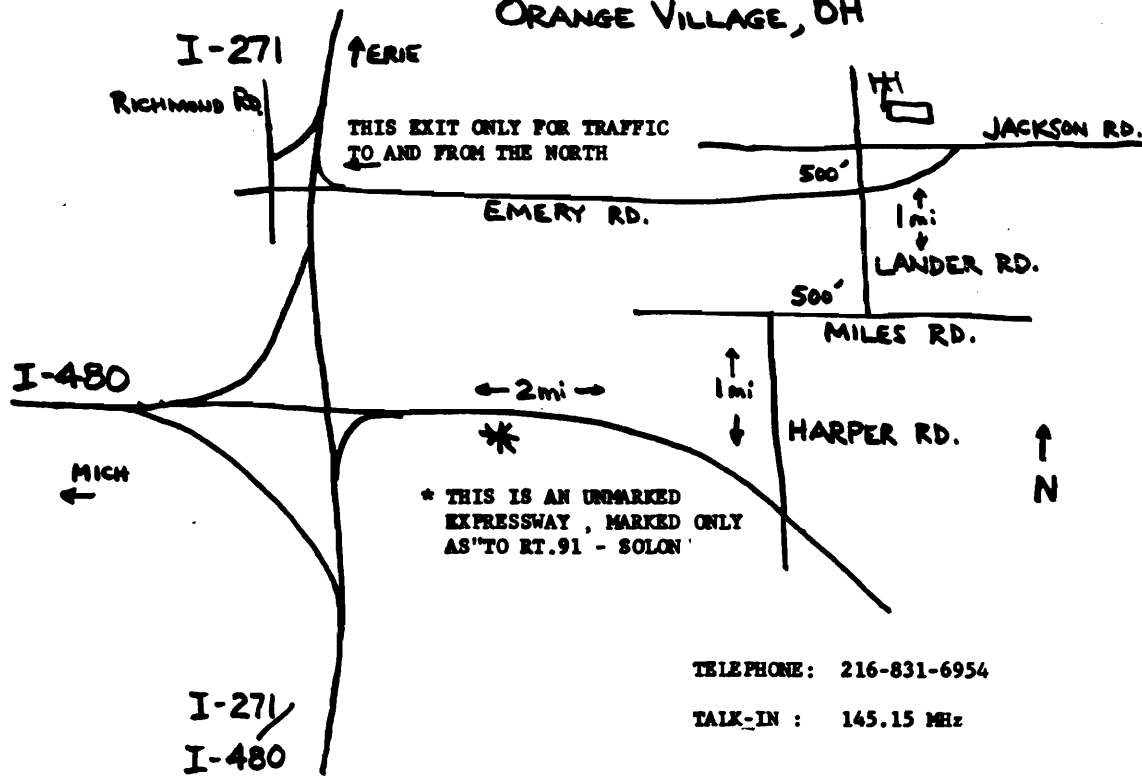
A185-b	K3LA-n	K3LR-a	K3TUP-a	K3QED-u
KJ3L-b	N8EKE-b	W3KKX-b		

Station Definitions:

- a - Multiple towers and KW amplifiers.
- b - Single tower with monobanders or tribander, KW amplifier.
- c - Barefoot with beam, or KW and simple antennas.
- d - Simple antennas, no amplifier.
- n - No antennas and (or) station at present.
- u - Information unknown at press time.

ANNOUNCING THE 11TH ANNUAL
 K8MR CHRISTMAS PARTY
 AND
 MAD RIVER RADIO CLUB MEETING
 SATURDAY JAN. 2, 1988 - 7PM
 NEW LOCATION!

30499 JACKSON RD.
 ORANGE VILLAGE, OH



COLS/YOUNGSTOWN
 ↓

TELEPHONE: 216-831-6954
 TALK-IN : 145.15 MHz

MRRC XMAS PARTY - The 11th Annual KBMR Christmas Party and Mad River Radio Club meeting will take place on January 2, 1988 beginning at 7:00 PM. Jim, KBMR, moved this past year, so check the map on the previous page for directions to the new QTH. Some notes from Jim:

- There are numerous hotels about three miles away in Beechwood (I271US422). If folks wish, let me know far enough ahead and I'll call around to find best rates, maybe some sort of group deal. Deposits, etc., would still be the responsibility of anyone wanting a room.
- There is some floor space available to sleep overnight, if necessary. It is a ranch style house with a basement, but I think the trend for us aging Yuppies is to spend the bucks for a real bed.
- There will be some limits on smoking in the house. I expect the upstairs part of the house to be non-smoking, the basement a question mark, but the outside is fine.

Refreshments are mostly bring-your-own-stuff. The Annual Christmas Party has traditionally turned out to be a real blast for MRRC. Hope to see everyone there!!!

Mad River Radio Club
2727 Harris Rd.
Ypsilanti, MI 48198
(313) 481-0755



FIRST CLASS MAIL

The FLASH is the newsletter of the MAD RIVER RADIO CLUB, an ARRL affiliated club serving contesters in IN, KY, MI, OH, PA and WV. The FLASH may be reprinted in whole or in part provided proper credit is given. Mail all inquiries or submissions to newsletter editor KBCC at the address on the masthead. Join the Mad River Net on 3825 KHz at 8:30 PM Eastern Time on Mondays.