

the XXXXXXXX XXXXXXXX XXXXXXXX  
XXXXXX XXXXXXXX XXXXXXXX XXXXXXXX

JULY, 1986

VOLUME VIII, NUMBER 2

edited by  
Joe Warden, WBLNO  
28 S. Hemstead Rd.  
Westerville, OH 43081

*the official journal of the MAD RIVER RADIO CLUB*

President: Joe Warden, WBLNO  
28 South Hemstead Road  
Westerville, OH 43081  
(614) 891-7998

Treasurer: Jeff Clarke, KU8E  
7081 Hollywood Dr.  
W. Chester, OH 45069

DAC Representative: Randy Farmer, WBFN; 919 Leatherwood Dr.; New Carlisle, OH 45344

## BIG FISH

The last words from the Fish are probably still in the "to be read" stacks on the backs of comodes. Realistic assessment of the powers of one's communicative skills often results in brevity. This will be short.

The shirt order form and questionnaire have been reproduced in this 'Flash'. Two responses have been received to date. I deplaned following a trip to PY, LU and CP to learn that the Prototype shirt had been completed that very day, Friday, June 27. The Shirts look even better than I had hoped they would. The silk screening is excellent, the design outstanding and the color combination is striking. Send your order today.

The Michigan Meeting has been scheduled. Be at NBCXX on July 19 for the fun. A map and directions are enclosed. John advises that there will be plenty of floor space for those who wish to stay overnight. Please let LNO or CXX know of your plans to assist in scheduling hot dogs and beverages.

Log and summary sheets for the Armadillo Run are included herein. Review of the counties to be covered summary prepared by KSRC suggest that W\*8 land will be 100% after the CW weekend thanks to the great job of coordinating by Bill Kelsey, N8ET. WBLNO and KA8HFO will make a West Va run. K8AQM and his rowdy friends will polish off Michigan. Ohio seems to be well under control. Some states are really short on coverage.

K8MR, Jim Stahl, advises that the ARRL Executive Committee has directed that the Executive Vice President of the League create a West Texas section. Perhaps we will get back to 75 sections in the SS. Jim also reports that the K8MR random dot/dash generator has been replaced with a K9CW memory keyer. It is not possible that the new hardware will measure up to the standards set by the MR creation.

## CONTRIBUTORS

STEVE MILLER, WD8IXE

NOTES FROM W3LPL-PROPOGATION

ARMADILLO RUN, KSRC

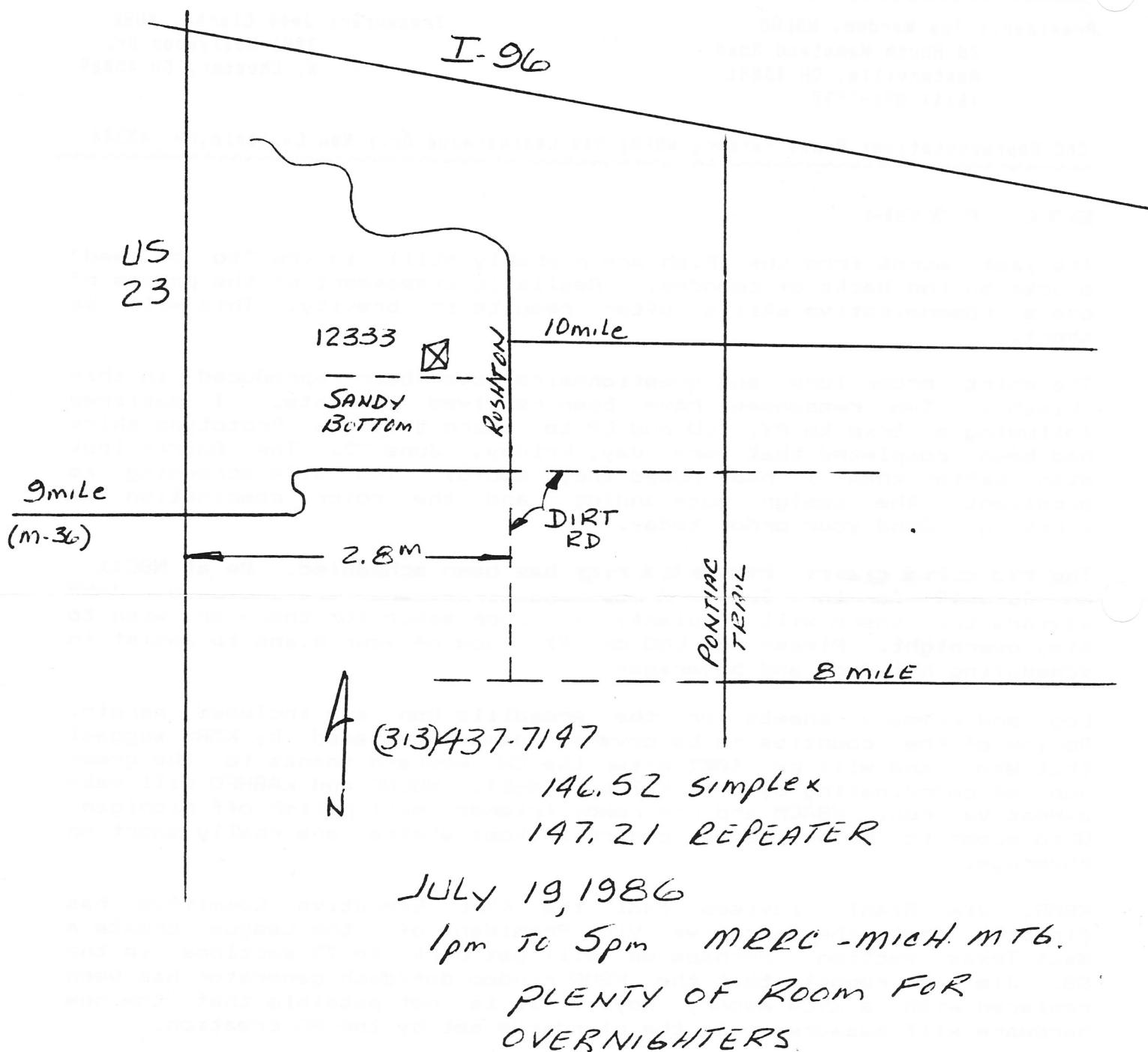
STATUS OF ALL COUNTIES--THEY ARE CLOSE !!

ARRL--W1OD AND KR1R

HIGH CLAIMED ALL BAND - REVISED SSB LISTING

## MICHIGAN MEETING

For those who don't read maps well, you will want to know that John's address is 12333 Sandy Bottom Road. John has a lot of aluminum and a few tower sections for sale, so bring lots of cash!



# WDBIXE NOTES RE W3LPL AT DAYTON

The following is based on notes jotted down at the antenna forum held at the 1986 Dayton Hamvention. A talk entitled HF Propagation Characteristics was presented by Frank Donnelly, W3LPL. These notes are not complete (I didn't have a tape recorder available) but, I think most of the material is present.

## 160 Meters

- extra high daytime absorbtion
- low night absorbtion in winter or low sunspot activity
- high polarization discrimination
- vertical polarization is best for east-west paths when absorbtion makes polarization a factor but not a factor on north-south paths.
- about 8 hours after a sudden ionospheric disturbance (SID), propagation is good for 4-5 hours because absorbtion is reduced

## 80 Meters

- very high daytime absorbtion
- low to medium night absorbtion (winter)
- medium to high night absorbtion (summer)
- some polarization discrimination
- E-region cutoff occurs
- high, medium, and low angles of radiation present
- about 8 after an SID, good propagation for 4-5 hours
- antenna height is best at 180-200 feet

## 40 Meters

- very high daytime absorbtion
- low night absorbtion (winter)
- medium night absorbtion (summer)

- high, medium, and low angles of radiation present
- best antenna height 80-100 feet daytime 140-200 nighttime
- E-region cutoff occurs

#### 20 Meters

- absorbtion always a factor (E-region)
- E-region cutoff occurs at low & medium latitudes
- medium and low angles of radiation present
- useful angles of radiation about 8-15 degrees
- best antenna height 80-100 feet (you can go too high)

#### 15 Meters

- absorbtion a factor at midday
- E-region cutoff at lower latitudes
- medium, low, and very low angles of radiation present
- best antenna height 200 feet (the higher the better)
- an antenna at 160 feet is 3 dB down from a 200 footer

#### 10 Meters

- absorbtion very rarely a factor
- low and very low angles of radiation present
- lowest angle of radiation is about 3 degrees
- 140 foot antenna is big gun!
- 80 foot antenna is about 3 dB down from the 140 footer
- 50 foot antenna is about 6 dB down from the 140 footer
- at 8 degrees angle of radiation (ie. carribean) the 140 is 20-30 dB down from the optimal height (about 50 feet)

Additional notes

- this presentation was developed for DXing using F-region propagation
- absorption occurs almost totally in the D-region and E-region
- polarization discrimination is a function of polarization only
- E-region cutoff occurs when the signal refracts in the E-region and is reflected or heavily absorbed (signal doesn't make it to the F-region)
- a maximum antenna height of 200 feet was assumed due to red tape involved with constructing higher structures
- these characteristics are generalizations; they may not exactly apply in some situations

Hopefully my notes were properly deciphered and reconstructed. Some interesting points were brought out and I learned some new things. Yuri had his tape recorder going so it wouldn't surprise me to find another version of these notes in a future issue of RADIOSPORTING.

*Steve*  
WD8IXE

\* \* \* \* \*

The MRRC Flash is the newsletter of the Mad River Radio Club, an ARRL affiliated club serving contesters in Ohio, Michigan, Pennsylvania, Indiana, Kentucky and West Virginia. The FLASH may be reprinted in whole or in part provided proper credit is given. Mail all inquiries or submissions to W8LNO at the address shown on the masthead. Join the Mad River Net on 3825 Khz at 8:30 Eastern each Monday evening.

HIGH CLAIMED SCORES, 1986 ARRL INTERNATIONAL DX CONTEST



ARRL DX S/O AB PH

# PHONE

ARRL DX M/S PH

CALL	SCORE
K1KI	1,885,482
K3ZO	1,510,758
N2FB	1,289,238
KT3M	1,273,440
K1DG	1,242,774
W9RE	1,241,280
N2LT	1,237,698
WX4G	1,217,640
K5ZD/1	1,134,027
W6MKB	1,095,687
N2RM	1,074,840
KM6B	1,067,256
K4VX (KROY, opr)	1,028,160
N2MM	978,600
NR5M	961,740
K1VR	909,468
AK1A	793,914
K3ZJ	768,687
N6AW	762,570
W8ZF/4	761,388
K1IU	721,752
W2RQ	721,746
VE1NG	720,390
K5RX	689,082
VE3XN	570,726
AA1K	555,093
K8XR	546,165
N2IC/0	537,510
N6QR	498,405
K6EID	413,595
KI3L	405,162
K2TR	379,200
K7OX	364,182
W3HHG	362,709
KK4R	347,976
W1CWU	331,788
N4MM	331,752
KJ3R	322,095
VO1MP	315,882
NGOW	305,184
N3JT	289,440
W3UJ	286,836
K5NW	283,410
WOHBH	274,620
W3DHM	272,454

CALL	SCORE
K3TUP	1,323,630
K3WW	1,320,948
WB8JBM	1,204,818
WB2ULI	1,020,672
N4KG	968,175
WA8DXG	847,206
KU2Q	794,508
K2NJ	723,216
WA3SPJ	686,718
W3AP	674,163
K7LXC	660,630
N8CXX	642,864
W3MA	606,090
AK1L	591,528
K1WA	466,242
K2UR	447,387
NK7U	438,615
W2RR	419,016
W06Q	389,550
K5RVK	306,153
W6BIP	304,278
WA2LQO	289,938
AK6T	285,600
W3GU	282,240
W8LNO	276,588

ARRL DX M2X PH

CALL	SCORE
KX4S	2,457,450
N5AU	2,391,168
N6ND	1,982,760
N3RS	1,945,026
K3OO	1,754,994
N1AU	1,485,960
K3II	683,865
KQ1F	555,270
K6TMB	414,990
K1RX	195,339
K5TYP	19,656

ARRL DX S/O LP PH

CALL	SCORE
VE1NG	720,390
VO1MP	315,882
W3UJ	286,836
W2TZ	233,070
N5AW	178,416
KG1D	117,558
WA5OYU	106,533
W3ARK	102,600
N6ADK	88,275
K4JHT	85,344
N1CC	72,000
W9KTB/4	65,205
WB3BRF	61,800
WAONOK	60,903
W7YAQ	60,066
K3FNW	59,058
KA1ION	55,296
W7LHO	55,200
W2HAJ	49,551
WA5IYX	48,594
NOFYM	43,326
W2KHQ	41,796
W3SOH	41,580
NG9L	32,076
W9NTU	30,336

ARRL DX M/M PH

CALL	SCORE
K2BU	3,757,890
W3LPL	3,019,302
W3GM	1,923,108
K3ZZ	1,019,424
K1EA	903,600
KM1C	901,167
KY1H	382,374
W3UM	51,102

73,

W1OD & KR1R  
ARRL Contest Branch

## SUMMARY SHEET

CALL USED: \_\_\_\_\_

 MODE \_\_\_\_\_

- CLASS:  MOBILE       PORTABLE       FIXED  
 SINGLE-OP       SINGLE TRANSMITTER       QRO \_\_\_\_\_ WATTS  
 MULTI-OP       MULTI TRANSMITTER       QRP 10W OR LESS WATTS  
 OTHER - DESCRIBE - \_\_\_\_\_

## SCORING

STATE	NUMBER OF COUNTIES RUN	NUMBER OF QSO'S	POINTS	MULTS	TOTAL POINTS
TOTAL					

FIGURE SCORING FOR EACH STATE AND TOTAL TO BE ELIGIBLE FOR STATE AWARDS AND TOTAL PLAQUE.

OPERATORS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

EQUIPMENT: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

THIS IS TO CERTIFY THAT I HAVE OPERATED MY TRANSMITTER WITHIN THE LIMITATIONS OF MY LICENSE AND HAVE OBSERVED THE RULES AND REGULATIONS OF THE CONTEST.

SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_

SOAP-BOX \_\_\_\_\_

OR \_\_\_\_\_

FUNNIEST STORY \_\_\_\_\_

OR \_\_\_\_\_

COMMENTS \_\_\_\_\_

----- MAIL LOGS TO: -----  
 NAME: \_\_\_\_\_ ARMANDILLO RUN -----  
 ADDRESS: \_\_\_\_\_ GALEN GRAFF - KB5FU  
 CITY: \_\_\_\_\_ 350 MAGNOLIA BEND  
 STATE: \_\_\_\_\_ NEW CANEY, TX 77357  
 ZIP: \_\_\_\_\_ ----- COUNTY HUNTER -----  
 JERRY BURKHEAD - N6QA  
 7525 BALTIMORE STREET  
 SAN DIEGO, CA 92111

## THE GREAT ARMADILLO RUN OF 1986

CALL: \_\_\_\_\_

COUNTY: \_\_\_\_\_ ST: \_\_\_\_\_

DATE: \_\_\_\_\_ 19 \_\_\_\_ TIME: \_\_\_\_\_ -

B A N D	TIME	STATION	SENT RST-NO.	RECEIVED RST, SERIAL NO, COUNTY, STATE	M L T	P T S
1			-			
2			-			
3			-			
4			-			
5			-			
6			-			
7			-			
8			-			
9			-			
10			-			
11			-			
12			-			
13			-			
14			-			
15			-			
16			-			
17			-			
18			-			
19			-			
20			-			
21			-			
22			-			
23			-			
24			-			
25			-			
26			-			
27			-			
28			-			
29			-			
30			-			
31			-			
32			-			
33			-			
34			-			
35			-			
36			-			
37			-			
38			-			
39			-			
40			-			
PAGE TOTALS						

FIXED STATIONS = 1 PT MOBILES AND PORTABLES = 3 PT  
MOBILE WINDOW 3. 575 7. 055 14. 065 21. 065 28. 065 DX = 1 PT  
AND DOWN

## MAD RIVER RADIO CLUB

## 'FLASH'

PAGE 9

JULY, 1986

ALABAMA (20/67)

BALDWIN  
BULLOCK  
CALHOUN  
CHEROKEE  
CONECUCHEE  
CULLMAN  
DE KALB  
FAYETTE  
JACKSON  
LAMAR  
LAWRENCE  
LIMESTONE  
LOWNDES  
MACON  
MARSHALL  
MORGAN  
PICKENS  
SAINT CLAIR  
TALLAPOOSA  
WINSTON

ALASKA (COMPLETED)

ARIZONA (2/15)

GILA  
GRAHAM

ARKANSAS (10/75)

HOT SPRINGS  
HOWARD  
LITTLE RIVER  
LONOKE  
MONTGOMERY  
NEVADA  
PRAIRIE  
SEBASTIAN  
SEVIER  
YELL

CALIFORNIA (1/58)

AMADOR

COLORADO (16/63)

ALAMOSA  
CONEJOS  
EAGLE  
ELBERT  
GARFIELD  
GILPIN  
GUNNISON  
HINSDALE  
HUERFANO  
LAKE  
MINERAL  
PHILLIPS  
PITKIN  
RIO BLANCO  
RIO GRANDE  
SEDWICK

CONN'CT (COMPLETED)

DELAWARE (COMPLETED)

FLORIDA (15/67)

CALHOUN  
DE SOTO  
FRANKLIN  
GADSDEN  
HAMILTON  
HARDEE  
HIGHLANDS  
HOLMES  
JEFFERSON  
LAFAYETTE  
LIBERTY  
TAYLOR  
UNION  
WALTON  
WASHINGTON

GEORGIA (80/159)

APPLING  
ATKINSON  
BACON  
BAKER  
BARTOW  
BEN HILL  
BERRIEN  
BLECKLEY  
BROOKS  
BULLDOCK  
BURKE  
BUTTS  
CANDLER  
COFFEE  
COLQUITT  
CRAWFORD  
CRISP  
DADE

GEORGIA (CONT'D)

DAWSON  
DECATUR  
DODGE  
DOOLEY  
EARLY  
EFFINGHAM  
EMANUEL  
FANNIN  
FAYETTE  
FORSYTH  
GILMER  
GLASSCOCK  
GORDON  
GRADY  
GREENE  
HABERSHAM  
HANCOCK  
HEARD  
IRWIN  
JASPER  
JEFF DAVIS  
JENKINS  
JOHNSON  
JONES  
LAMAR  
LANIER  
LEE  
LUMPKIN  
MACON  
MARION  
MERIWETHER  
MILLER  
MITCHELL  
MONROE  
MONTGOMERY  
MORGAN  
MURRAY  
OCONEE  
OGLETHORPE  
PAULDING  
PICKENS  
PIKE  
PULASKI  
PUTNAM  
QUITMAN  
RABUN  
RANDOLPH  
SCHLEY  
SCREVEN  
SEMINOLE  
SPALDING  
STEVENS  
STEWART  
SUMTER  
TALIAFERRO  
TAYLOR  
TERRELL  
THOMAS  
TOWNS  
TREUTLEN  
TROUP  
TURNER  
TWIGGS  
UPSON  
WARE  
WARREN  
WHEELER  
WHITE  
WILCOX  
WILKES  
WILKINSON  
WORTH

HAWAII (1/5)

IDaho (13/44)

ADAMS  
BOISE  
BOUNDRY  
BUTTE  
CAMAS  
CLARK  
CUSTER  
ELMORE  
LEWIS  
NEZ PERCE  
POWER  
VALLEY

ILLINOIS (1/102)

ALEXANDER

INDIANA (COMPLETE)

IOWA (53/99)

ADAIR  
ALLAMAKEE

IOWA (CONT'D)

BUENA VISTA

BUTLER  
CALHOUN  
CARROLL  
CASS  
CEDAR  
CHICKASAW  
CLARKE  
CLAYTON  
CRAWFORD  
DALLAS  
DECATUR  
DICKINSON  
EMMET  
FAYETTE  
FLOYD  
FREMONT  
GRUNDY  
GUTHRIE  
HAMILTON  
HANCOCK  
HARDIN  
HOWARD  
HUMBOLDT  
JASPER  
JEFFERSON  
KOSSUTH  
LEE  
LUCAS  
LYON  
MILLS  
MITCHELL  
MONONA  
MONROE  
MUSCATINE  
PAGE  
PALO ALTO  
POCAHONTAS  
POTTAWATTAMIE  
RINGGOLD  
SAC  
SHELBY  
TAMA  
TAYLOR  
UNION  
WASHINGTON  
WAYNE  
WINNEBAGO  
WINNESHEEK  
WORTH  
WRIGHT

KANSAS (62/105)

ALLEN  
ANDERSON  
BARBER  
BARTON  
BOURBON  
BROWN  
CHASE  
CHAUTAUQUA  
CHEROKEE  
CHEYENNE  
CLAY  
COMANCHE  
COWLEY  
CRAWFORD  
DICKINSON  
DONIPHAN  
DOUGLAS  
EDWARDS  
ELK  
ELLIS  
ELLSWORTH  
FORD  
GRAHAM  
GRANT  
GRAY  
GREELEY  
HARPER  
HODGEMAN  
JEFFERSON  
JEWELL  
KINGMAN  
KIOWA  
LANE  
LINCOLN  
LOGAN  
MARION  
MEADE  
MITCHELL  
MORRIS  
NEMaha  
NESS  
NORTON  
OSAGE  
OSBORNE  
PAWnee  
PHILLIPS  
PRATT

KANSAS (CONT'D)

RAWLINS  
RENO  
RICE  
RUSH  
RUSSELL  
SCOTT  
SHERIDAN  
SHERMAN  
STAFFORD  
STANTON  
TREGO  
WABAUNSEE  
WALLACE  
WASHINGTON  
WOODSON

KENTUCKY (63/120)

ADAIR  
ALLEN  
ANDERSON  
BELL  
BOURBON  
BOYLE  
BRACKEN  
BRECKENRIDGE  
CALDWELL  
CALLOWAY  
CARTER  
CHRISTIAN  
CLARK  
CLAY  
CLINTON  
CRITTENDEN  
CUMBERLAND  
DAVIESS  
EDMONSON  
ESTILL  
FLEMING  
FRANKLIN  
FULTON  
GARRARD  
GRANT  
GREEN  
HARRISON  
HART  
JACKSON  
KNOTT  
LAUREL  
LAWRENCE  
LESLIE  
LEWIS  
LINCOLN  
LOGAN  
MADISON  
MAGOFFIN  
MARION  
MASON  
MEADE  
MERCER  
MONROE  
MONTGOMERY  
NELSON  
NICHOLAS  
POWELL  
ROBERTSON  
ROCKCASTLE  
ROWAN  
RUSSELL  
SCOTT  
SHELBY  
SPENCER  
TAYLOR  
TODD  
TRIGG  
UNION  
WASHINGTON  
WAYNE  
WHITLEY  
WOLFE  
WOODFORD

LOUISIANA (2/64)

BIENVILLE  
CALCASIEU

MAINE (COMPLETE)

MARYLAND (COMPLETE)

MASSACHUSETTS (1)  
NANTUCKET

MICHIGAN (26/83)

ALCONA  
ALGER  
ALPENA  
ANTRIM  
ARENAC  
BARAGA  
(CONT'D)

## COUNTIES REMAINING TO BE ACTIVATED

11 JUN 86

COUNTIES REMAINING TO BE ACTIVATED

MICHIGAN (CONT'D)	MISSOURI (CONT'D)	NEBRASKA (CONT'D)	N. DAKOTA (CONT'D)
BENZIE	DAVIES	EDWARD	LOGAN
CHEBOYGAN	DE KALB	BERNARD	MC HENRY
DICKINSON	DOUGLAS	BIERMAN	MC INTOSH
HILLSDALE	GRUNDY	STONER	MC KENZIE
HOUGHTON	HARRISON	THAYER	MORTON
HURON	HOLT	THOMAS	OUNTAIL
TOSCO	KEEFENAW	VALLEY	OLIVER
LEELANAU	LUCIE	WHEELER	PETERCE
MANISTEE	MARQUETTE	WELLER	RANDOM
MENOMINEE	MISNAKE	WHEELER	RITCHLAND
MONTMORENCY	OCEANA	WERNER	ROLETTE
ONTARIO	SCHOOLCRAFT	MERCER	SARGENT
TUSCOLA	WEXFORD	MORGAN	SHERIDAN
WYOMING	WRIGHT	NIKAM	SILOUX
MINNESOTA (8/87)	MONTANA (35/56)	NEW MEXICO (6/33)	STARK
BECKER	BEAVERHEAD	HARDING	STEEL
CARVER	BIG HORN	LINCOLN	TOENER
CASS	BLAINE	LUNA	TRAIL
FILMORE	BROADWATER	MORA	WARD
HUBBARD	CARBON	SAN MIGUEL	WELL'S
HARRISON	CARVER	UNION	WILLIAMS
HABASHA	CHOUTEAU		
WINTONIA	CUSTER		
MISSISSIPPI (62/82)	DANIELS	NEW YORK (7/62)	WILLIAMS
ADAMS	DAWSON	DAULIN	WYOMING
CARVER	DEER LODGE	LIVINGSTON	ZAPPA
CASS	FALLON	SCHOHARIE	ZEPHYRUS
ALCORN	GLACIER	SCHUYLER	ZIMMER
AMITE	GRANITE	SULLIVAN	ZODIAC
ATTALA	MC CONE	WATES	ZODIAC
BOLIVAR	LINCOLN		
CALHOUN	LIBERTY	BEAUFORT	
CARROLL	MC GEEHER	BERTIE	
CHICKASAW	MC CONE	CAMDEN	
COHOKA	MC GEEHER	CARTERET	
COVINGTON	MINERAL	CHATHAM	
DE SOTO	PHILLIPS	CHOWAN	
FRANKLIN	POWELL	CLAY	
GREENE	PRATIE	COLUMBUS	
GRANADA	RITCHLAND	CRABEN	
HANCOCK	ROSEBURG	CRITTUTCK	
HOLMES	RUTHERFORD	DAVE	
HUMPHREYS	ROSEBUD	DURHAM	
ISSAQUENA	SANDERS	GATES	
JACKSON	SHERIDAN	GATEM	
JASPER	STILLWATER	GRIE	
JEFFERSON	TON	HIDE	
KEPNER	TOOLE	HODGE	
LAMAR	TREASURE	HODGE	
LAUDERDALE	WIBAUX	JONES	
LAWRENCE		LEE	
LEE		LENOR	
LINCOLN		LINCOLN	
LOWDENS		MADISON	
MADISON		MARTIN	
MARSHALL		MICHELL	
MONTGOMERY		MICHELL	
NESHOBIA		NORTHAMPTON	
NOXUBE		ONSLOW	
PANOLA		ORANGE	
PEARL RIVER		PAMlico	
PIKE		PERQUI MANNS	
PONTOTOC		RANDOLPH	
PRENTISS		RITCHMOND	
QUITMAN		RUTHERFORD	
SCOTT		STANLEY	
SHARKEY		STOKES	
BIMPSION		TYRELL	
SMITH		WAYNE	
STONE		WILSON	
TALLAHATCHIE			
TITTE			
TIPPABH			
TUNICA			
UNION			
WAYNE			
WEBSTER			
WILKINSON			
WINSTON			
WYAZOO			
MISSOURI (25/115)			

SOUTH DAKOTA (49/66)	VERMONT (1/14)	AUORA	AUORA
		BEALED	BEALED
		BENNET	BENNET
		BRULE	BRULE
		BUFFALO	BUFFALO
		BUTTE	BUTTE
		CAMPBELL	CAMPBELL
		CLARK	CLARK
		CORSON	CORSON
		CUSTER	CUSTER
		DAVISON	DAVISON
		DAY	DAY
		DEUEL	DEUEL
		DEWEY	DEWEY
		DOUGLAS	DOUGLAS
		EDMUND	EDMUND
		FAULK	FAULK
		GRANT	GRANT
		HAAKON	HAAKON
		HAMIL	HAMIL
		HAND	HAND
		HANSON	HANSON
		HARDING	HARDING
		HAROLD	HAROLD
		HUGHES	HUGHES
		JACKSON	JACKSON
		LEAUE	LEAUE
		LOUISON	LOUISON
		LUNENBURG	LUNENBURG
		MATHews	MATHews
		MECKLENBURG	MECKLENBURG
		LYMAN	LYMAN
		MC COOK	MC COOK
		MC PHERSON	MC PHERSON
		MARSHALL	MARSHALL
		MC DOVELL	MC DOVELL
		MARSHALL	MARSHALL
		ROCKINGHAM	ROCKINGHAM
		SCOTT	SCOTT
		ROBERTS	ROBERTS
		SANBORN	SANBORN
		SMYTH	SMYTH
		SURRY	SURRY
		TODD	TODD
		TAZEWELL	TAZEWELL
		WARREN	WARREN
		WESTMORELAND	WESTMORELAND
		UNION	UNION
		WALWORTH	WALWORTH
		ZIEBACH	ZIEBACH
		TENNESSEE (5/95)	TENNESSEE (5/95)
		GRAINGER	GRAINGER
		HAMBLEN	HAMBLEN
		HANCOCK	HANCOCK
		UNICOI	UNICOI
		TEXAS (22/254)	TEXAS (22/254)
		BLANCO	BLANCO
		COCHRA	COCHRA
		CONCHO	CONCHO
		CROCKETT	CROCKETT
		CROSBY	CROSBY
		FLOYD	FLOYD
		GARZA	GARZA
		HOCKLEY	HOCKLEY
		KENEDY	KENEDY
		LEEE	LEEE
		LEON	LEON
		LILANO	LILANO
		MASON	MASON
		MILAM	MILAM
		SUTTON	SUTTON
		TERREL	TERREL
		TERRY	TERRY
		VALVERDE	VALVERDE
		YOKAM	YOKAM
		UTAH (139/29)	UTAH (139/29)
		BEAVER	BEAVER
		CACHE	CACHE
		CARBON	CARBON
		DAGGETT	DAGGETT
		DUCHESNE	DUCHESNE
		GARFIELD	GARFIELD
		GRAND	GRAND
		IRON	IRON
		KANE	KANE
		MILLARD	MILLARD
		MORGAN	MORGAN
		PUITE	PUITE
		RICH	RICH
		SANPETE	SANPETE
		SETER	SETER
		SUMMIT	SUMMIT
		UNITAH	UNITAH
		875 REMAINING	875 REMAINING

MAD RIVER RADIO CLUB

'FLASH'

PAGE 10

JULY, 1986

## SHIRT ORDER FORM AND QUESTIONNAIRE

All shirts will be white with black trim. each will be imprinted with the logo on the back, approximately 10 inches in diameter, and on the front, approximately 4 inches in diameter. The logo will be black and red (BLACK ONLY on front). The optional lettering for calls and names will be red. Please return your order to WBLND before July 8.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_  
\_\_\_\_\_

SIZE	XL	L	M	S	price	qty
STYLE-----	SHORT SLEEVES-----				\$6.25	----
	-----JERSEY- 3/4 LENGTH SLEEVES-----				7.25	----

## OPTIONAL LETTERING-

CALL ON BACK - \$0.30 PER CHARACTER -----

CALL -----

NAME ON BACK - \$0.30 PER LETTER -----

NAME -----

CALL ON FRONT - \$0.15 PER CHARACTER -----

CALL -----

NAME ON FRONT - \$0.15 PER CHARACTER -----

NAME -----

CHARGE FOR PACKAGING AND MAILING-----\$1.50

NOT MUCH TO GO ON, BUT TRUST ME, YOU'RE GONNA' LOVE THESE SHIRTS!  
WILL YOU HAVE INTEREST IN A JACKET OR HAT? -----

THE STOCK SHIRTS SEEM TO RUN A LITTLE SMALL SO YOU MAY WISH TO ORDER ONE SIZE LARGER THAN YOU THINK YOU NEED. I WILL ATTEMPT TO ADJUST AS WE GO ALONG.

WHAT ARE YOUR THOUGHTS ON WHICH CONTESTS SHOULD BE EMPHASIZED FOR CLUB COMPETITION?

WOULD YOU BE WILLING TO HOST A LOCAL GET TOGETHER?

HOW DO WE INCREASE PARTICIPATION ON THE MRRC NET?

WHAT PROGRAMS/TOPICS WOULD YOU LIKE TO SEE COVERED AT MEETINGS?

ANYTHING ELSE?

**DUES STATUS-----**

PLEASE INSPECT YOUR MAILING LABEL. IF THE LAST LINE IN ANY LETTER OR  
ALPHANUMERIC COMBINATION OTHER THAN A "D", YOU ARE OKAY. IF YOUR  
LABEL BEARS A "D" PLEASE SEND YOUR 1986 DUES TO JEFF CLARKE.

**MAD RIVER RADIO CLUB**

28 SOUTH HEMSTEAD ROAD  
WESTERVILLE, OHIO 43081



MR. DAVID A PRUETT K8CC  
2727 HARRIS ROAD  
YPSILANTI, MICHIGAN  
48198

**FIRST CLASS MAIL**