

## 1. SCOPE

This document outlines the rules for the *Missouri QSO Party*, sponsored by the Boeing Employees' Amateur Radio Society-St. Louis (BEARS-St. Louis).

## 2. RULES

The *General Rules for All ARRL Contests* will apply except as noted.

### 2.1. Eligibility

Any licensed radio amateur may enter.

### 2.2. Object

The object of the contest is to work as many stations as possible during the contest period, to provide all licensed radio amateurs outside the state of Missouri the opportunity to work Missouri counties, and to provide all licensed radio amateurs in Missouri an opportunity to work other states and countries.

### 2.3. Date and Time Period

The contest has two separate operating periods, typically on the first full weekend in April. For 2019, the contest is on April 6 and April 7.

	1 <sup>st</sup> Day	2 <sup>nd</sup> Day
Begin	1400 UTC Saturday	1400 UTC Sunday
End	0400 UTC Sunday	2000 UTC Sunday

### 2.4. Modes and Frequencies

CW, Digital, and phone operation on 160M, 80M, 40M, 20M, 15M, 10M, 6M, 2M, 1.25M, and 70cm. Suggested frequencies are 1.820 MHz on 160M or 40 Hz up from the band edge on CW, and 1.880, 3.825, 7.220, 14.250, 21.380, and 28.350 MHz on SSB phone. Suggested frequencies on VHF/UHF are the standard VHF calling frequencies.

### 2.5. Entry Classifications

#### 2.5.1. Missouri Fixed Stations

Missouri Fixed stations will operate from a single county within the State of Missouri. Missouri Fixed stations may work any other station once per mode on each band except mobile/expedition stations may be worked once per mode on each band for each county in which the mobile/expedition station is located. Fixed stations may operate in one of the following categories:

- Missouri Fixed (Multi-Op) – any legal power, multi/multi allowed
- Missouri Fixed (Single-Op HP) – over 150W, one transmitted signal
- Missouri Fixed (Single-Op LP) – 150W or less, one transmitted signal
- Missouri Fixed (Single-Op QRP) – 5W or less, one transmitted signal

#### 2.5.2. Missouri Expedition

Missouri Expedition stations will operate from a single fixed geographic location. Missouri expedition stations may work any other station once per mode on each band except

mobile/expedition stations may be worked once per mode on each band for each county where the other station is located.

Commercial power may be used. The station and all antennas must be temporarily erected for the contest and removed afterwards. The location may not be that of a permanent amateur station. Expedition stations may operate from one of the following categories:

- Missouri Expedition (Multi-Op) – any legal power, multi/multi allowed
- Missouri Expedition (Single-Op HP) – over 150W
- Missouri Expedition (Single-Op LP) – 150W or less
- Missouri Expedition (Single-Op QRP) – 5W or less

Expedition stations may be located at the intersection of two or more counties. They will be allowed to make multiple QSOs with the same station, one for each of the counties in which they are located. County line operations must log these contacts as separate QSOs.

Single-op expedition operations from county lines must have a portion of the station physically located inside each county claimed. Multi-op expedition operations from county lines must have a portion of at least one station physically located inside each county claimed. All equipment (including antennas) must lie within a circle whose diameter does not exceed 300 meters (1000 feet).

### **2.5.3. Missouri Mobile Stations**

Mobile stations will operate from at least two counties within the State of Missouri. Mobile stations may work any other station once per mode on each band from each county of operation.

Mobile stations may work other Mobile/Expedition stations once per mode on each band for each county where the other station is located. Mobile stations may operate from one of the following categories:

- Missouri Mobile (Unlimited) – over 150W, multi/multi allowed
- Missouri Mobile (Multi-Op LP) – 150W or less,
- Missouri Mobile (Single-Op LP Mixed) – 150W or less
- Missouri Mobile (Single-Op LP CW Only) – 150W or less
- Missouri Mobile (Single-Op LP Phone-Only) – 150W or less

Mobile operation on county lines is permitted. County line operations must log these contacts as separate QSOs. Mobile stations that operate from county lines must have a portion of their vehicle parked in each county claimed.

### **2.5.4. Non-Missouri Stations**

Non-Missouri stations are from any other state in the United States (including the District of Columbia (DC), Alaska and Hawaii), or any Canadian province or territory. Non-Missouri stations may work Missouri stations once per mode on each band, and mobile stations once per mode on each band for each county in which the mobile station is located.

- Non-Missouri (US Single Operator High Power) – Over 150W
- Non-Missouri (US Single Operator Low Power) – 150W or less
- Non-Missouri (US Single Operator QRP) – 5W or less
- Non-Missouri (Multi Operator) – Any legal power, multi/multi allowed
- Non-Missouri (Canada) – Any legal power, multi/multi allowed

### **2.5.5. DX Stations**

DX stations are from any entity on the ARRL DXCC Countries List excluding the United States, Canada, Alaska, and Hawaii. DX stations may work Missouri stations once per mode on each Band. DX stations may work Mobile stations once per mode on each band for each county in which the Mobile station is located.

DX stations can operate any legal power. Single op or Multi Op is allowed.

### **2.5.6 Missouri School Club Category**

Missouri School clubs entries can be any university, college, technical, primary, or secondary school.

Only currently enrolled regular students and faculty/staff of the institution are eligible to operate a school club entry. Alumni may participate on the air with students, however it is not in the spirit of the category for alumni exclusively to use the club station. Alumni should make every effort to continue in an Elmer role to current student club members.

School clubs must operate from established stations located on campus. No portable operation from a near-by contest station is allowed. If no on campus station exists, a club may operate from a member's station or set up a portable station on campus.

### **2.5.7 Missouri Rookie Category**

All Missouri amateurs who are 18 years old or younger, or have been licensed less than three years are eligible to enter in the rookie category in addition to the categories defined in 2.5.1, 2.5.2, 2.5.3 or 2.5.6. Rookie entries should be noted as such in the Cabrillo file header or the summary sheet.

### **2.5.8. Missouri Club Category**

Missouri stations may specify a club affiliation with their entry. Club scores will be determined by adding the scores of all Missouri stations that specify a particular club in their entry. At least three logs must be submitted to constitute a valid club entry. A club entry form is not required.

## **2.6. Exchange**

### **2.6.1. Missouri Stations**

Missouri stations will provide call sign, RST, and a three letter county code as defined in Table 1.

### **2.6.2. Non-Missouri Stations**

Non-Missouri stations will provide call sign, RST, and their US state (as defined in Table 2) or Canadian province or territory (as defined in Table 3).

### **2.6.3. DX Stations**

DX stations will provide call sign, RST, and the designation "DX".

## **2.7. Miscellaneous Rules**

The following miscellaneous rules will apply:

1. As a condition of entry, participants are bound to the provisions and intent of these rules, and bound to the decisions of the contest sponsor regarding award distribution.
2. The use of spotting assistance or nets (operating arrangements involving other individuals, DX-alerting nets, packet clusters, etc.) not physically located at the station is permitted. Stations may spot themselves.

3. Cross-band and cross-mode contacts will not be permitted.
4. Repeaters and gateways may not be used to complete QSOs.
5. Soliciting a simplex contact during the contest period is permitted. APRS or other similar means may be used for posting location, frequency, and mode but may not be used for conducting QSOs.
6. All call signs and exchange information will be sent, received, acknowledged, and logged correctly by each station for a complete QSO. A valid contact will be a complete QSO that is not a duplicate based on the restrictions defined in paragraph 2.5.
7. Missouri stations will receive one DX multiplier if at least one DX entity is worked. A maximum of one DX multiplier will be awarded even if additional DX contacts are made.
8. Satellite contacts are prohibited.
9. Mobile is a station that is self-contained and capable of legal motion (street, water, or air) while operating, motion optional.
10. All Missouri Mobile stations – Operations where one person operates and does all driving will be scored as a Single-Op. Operations where one person operates and a 2<sup>nd</sup> person drives or operates will be scored as a Multi-Op.
11. Missouri stations should call CQ Missouri QSO Party or CQ MOQP.
12. Stations calling Missouri should call CQ Missouri or CQ MO.
13. Any digital mode contact counts as a valid QSO for digital. You can only work the same digital station once per band. (The intent of this rule is to prevent working the same station on a band via multiple digital modes.)
14. Single operator stations may only have one transmitted signal at a time.
15. All stations should provide the opportunity to be worked by everyone involved in the contest. Stations whose operation appears to be providing QSOs or multipliers only to a specific station or stations is considered unsportsmanlike conduct and may be disqualified.
16. County line operations should be prepared to provide proof that their station was physically located in each county claimed. Multiple stations claiming to operate from the same three county intersection simultaneously should be prepared to show proof that their stations met this requirement simultaneously.
17. Mobile stations may append their call sign with a suffix of “/M”, “/R”, “mobile”, “rover”, or the three letter county code,

## 2.8. Special Event Stations

The BEARS-St. Louis will operate a special event station, WØMA as part of the contest. A one-time (first QSO only) 100-point bonus will be added to the total score of stations working special event station WØMA. WØMA is normally located in St. Louis County (SLC), but the station may operate portable in a different Missouri county for the QSO party.

The Raytown ARC will operate a second event station, KØGQ as part of the contest. A one-time (first QSO only) 100-point bonus will be added to the total score of stations working special event station KØGQ. KØGQ will be operated out of Jackson County (JAC)

## 2.9. Score

The score for a participating station will be determined by multiplying the total number of valid contact points, by the total number of multipliers worked, then adding the bonus points (if applicable).

### 2.9.1. Points

Points for valid contacts will be awarded in the following manner:

1. Valid phone contacts count one point each.
2. Valid CW contacts count two points each.
3. Valid digital contacts count two points each.
4. At least one valid contact with the WØMA special event station will count as a single 100-point bonus added to the total score.
5. At least one valid contact with special event station KØGQ will count as a single 100-point bonus added to the total score.
6. A 100 point bonus will be awarded for successfully submitting a Cabrillo log electronically.

### 2.9.2. Multipliers

Multipliers will be awarded in the following manner:

1. The multipliers for Missouri stations are Missouri counties (115 maximum), US states (49 maximum), and Canadian provinces and territories (13 maximum) worked. An additional multiplier of the value of one will be added if at least one DX station is worked.
2. The multipliers for Non-Missouri and DX stations are Missouri Counties (115 maximum) worked.

## 2.10. Reporting and Submissions

2.10.1. Entries must be submitted to the contest sponsor within 30 days after the conclusion of the contest. No late entries will be accepted. A complete entry will consist of one of the following in order of preference:

1. Cabrillo format (no Summary Sheet required) – E-mailed or sent on CD or other digital media thru postal mail.
2. Paper log entry – Summary Sheet required – sent to WØMA

2.10.2. All logs generated electronically, must be submitted electronically in Cabrillo format.

2.10.3. All entries must specify their entry class and power level in the Cabrillo file header or summary sheet. (Note that some logging software does not correctly populate this information. Please verify the accuracy of your Cabrillo header using a text editor before submission.

2.10.4. Incomplete or illegible entries will be classified as check-logs. Non-Cabrillo entries without a summary sheet will be scored as check-logs.

2.10.5. An example of the official summary sheet is supplied in Appendix A or it can be downloaded from the BEARS-St. Louis web site at <http://www.w0ma.org>. The log of contacts must show call sign, date, time, band, mode, and full exchange for each QSO.

2.10.6. E-mail entries to: [mogsoparty@w0ma.org](mailto:mogsoparty@w0ma.org) or send submittals to the following address:

Boeing Employees' Amateur Radio Society WØMA  
c/o George Mackus, ABØRX  
11841 Wexford Place Drive  
Maryland Heights, MO 63043 USA

2.10.7. Official results will be published on the BEARS-St. Louis web site approximately 90 days after entry submittal deadline.

### **3. AWARDS**

#### **3.1. Winners**

Plaques (if sponsored) will be awarded for first place scores (with 50 or more QSOs) in each of the following categories:

- Missouri Fixed Multi-Op
- Missouri Fixed Single-Op HP
- Missouri Fixed Single-Op LP
- Missouri Fixed Single-Op QRP
- Missouri Expedition
- Missouri Mobile Unlimited
- Missouri Mobile Multi-Op (LP)
- Missouri Mobile Single-Op LP
- Missouri Mobile Single-Op LP CW Only
- Missouri Mobile Single-Op LP Phone-Only
- Non-Missouri US Single Operator HP
- Non-Missouri US Single Operator LP
- Non-Missouri US Single Operator QRP
- DX
- Missouri Rookie
- Missouri School
- Highest Digital score
- Highest Number of Counties

In the event a plaque does not get sponsored, or the minimum QSO count is not met, the first place score will still be awarded a certificate.

Certificates will be awarded for first and second place scores in each of the following categories:

- Missouri Fixed Multi-Op
- Missouri Fixed Single-Op HP
- Missouri Fixed Single-Op LP
- Missouri Fixed Single-Op QRP
- Missouri Expedition Multi-Op
- Missouri Expedition Single-Op HP
- Missouri Expedition Single-Op LP
- Missouri Expedition Single-Op QRP
- Missouri Mobile Unlimited
- Missouri Mobile Multi-Op (LP)
- Missouri Mobile Single-Op LP
- Missouri Mobile Single-Op LP CW Only
- Missouri Mobile Single-Op LP Phone-Only
- Non-Missouri US Single Operator HP
- Non-Missouri US Single Operator LP
- Non-Missouri US Single Operator QRP
- Non-Missouri US Multi-Op
- Canada
- DX
- Missouri Rookie
- Missouri School Club
- Missouri clubs
- Missouri Digital
- Non Missouri Digital
- Missouri VHF
- Non-Missouri VHF
- Highest Number of Counties
- Each US state
- Each Canadian province and territory

Additional certificates may be awarded at the discretion of the contest sponsor.

### 3.2. Bonus Missouri QSO Party Certificates

Awarded to stations who spell “Show Me” or “Missouri” using the suffixes of selected 1x1 calls listed below.. For letters that occur more than once, the 1x1 stations may be reused if worked on additional bands or modes. Special Event Stations WØMA and KØGQ count as a wild cards and may be used in place of one missing letter.

Example: nØS wØH kØO nØW kØM nØE

The following 1x1 call signs count towards the bonus Awards: KØE, KØH, KØI, KØM, KØO, KØR, KØS, KØU, KØW, NØE, NØH, NØI, NØM, NØO, NØR, NØS, NØU NØW, WØE, WØH, WØI, WØM, WØO, WØR, WØS, WØU, and WØW.

All bonus certificate winners will be notified via email that their certificate is available to be downloaded from [www.w0ma.org](http://www.w0ma.org)

### **3.3. Tie-Breakers**

Should more than one station attain the same score, the station with the most Missouri counties worked will be awarded the higher position. The highest number of MO counties plaques and certificates will be awarded to the station with the earliest QSO time of their last county worked.

### **3.4. Digital awards**

The digital mode plaque and certificates will be awarded to stations with the most digital QSOs multiplied by the most multipliers worked digitally. Entries do not have to be digital only entries and logs may also include non-digital contacts.

### **3.5. VHF awards**

The VHF certificates will be awarded to stations with the most VHF QSOs multiplied by the most multipliers worked on VHF. Entries do not have to be VHF only entries and logs may also include non-VHF contacts.

**Table 1: Missouri County Listing.**

COUNTY	CODE	COUNTY	CODE	COUNTY	CODE
Adair	ADR	Henry	HEN	Pike	PIK
Andrew	AND	Hickory	HIC	Platte	PLA
Atchison	ATC	Holt	HLT	Polk	POL
Audrain	AUD	Howard	HOW	Pulaski	PUL
Barry	BAR	Howell	HWL	Putnam	PUT
Barton	BTN	Iron	IRN	Ralls	RAL
Bates	BAT	Jackson	JAC	Randolph	RAN
Benton	BEN	Jasper	JAS	Ray	RAY
Bollinger	BOL	Jefferson	JEF	Reynolds	REY
Boone	BOO	Johnson	JON	Ripley	RIP
Buchanan	BUC	Knox	KNX	Saline	SAL
Butler	BTR	Laclede	LAC	Schuyler	SCH
Caldwell	CWL	Lafayette	LAF	Scotland	SCT
Callaway	CAL	Lawrence	LAW	Scott	SCO
Camden	CAM	Lewis	LEW	Shannon	SHA
Cape Girardeau	CPG	Lincoln	LCN	Shelby	SHL
Carroll	CRL	Linn	LIN	St. Charles	STC
Carter	CAR	Livingston	LIV	St. Clair	SCL
Cass	CAS	Macon	MAC	St. Francois	STF
Cedar	CED	Madison	MAD	St. Genevieve	STG
Chariton	CHN	Maries	MRE	St. Louis City	STL
Christian	CHR	Marion	MAR	St. Louis County	SLC
Clark	CLK	McDonald	MCD	Stoddard	STD
Clay	CLA	Mercer	MER	Stone	STN
Clinton	CLN	Miller	MIL	Sullivan	SUL
Cole	COL	Mississippi	MIS	Taney	TAN
Cooper	COP	Moniteau	MNT	Texas	TEX
Crawford	CRA	Monroe	MON	Vernon	VRN
Dade	DAD	Montgomery	MGM	Warren	WAR
Dallas	DAL	Morgan	MOR	Washington	WAS
Daviess	DVS	New Madrid	NMD	Wayne	WAY
DeKalb	DEK	Newton	NWT	Webster	WEB
Dent	DEN	Nodaway	NOD	Worth	WOR
Douglas	DGL	Oregon	ORE	Wright	WRT
Dunklin	DUN	Osage	OSA		
Franklin	FRA	Ozark	OZA		
Gasconade	GAS	Pemiscot	PEM		
Gentry	GEN	Perry	PER		
Greene	GRN	Pettis	PET		
Grundy	GRU	Phelps	PHE		
Harrison	HAR				

**Table 2: State Listing.**

State	CODE
Alabama	AL
Alaska	AK
Arizona	AZ
Arkansas	AR
California	CA
Colorado	CO
Connecticut	CT
Delaware	DE
Florida	FL
Georgia	GA
Hawaii	HI
Idaho	ID
Illinois	IL
Indiana	IN
Iowa	IA
Kansas	KS
Kentucky	KY

State	CODE
Louisiana	LA
Maine	ME
Maryland	MD
Massachusetts	MA
Michigan	MI
Minnesota	MN
Mississippi	MS
Montana	MT
Nebraska	NE
Nevada	NV
New Hampshire	NH
New Jersey	NJ
New Mexico	NM
New York	NY
North Carolina	NC
North Dakota	ND
Ohio	OH

State	CODE
Oklahoma	OK
Oregon	OR
Pennsylvania	PA
Rhode Island	RI
South Carolina	SC
South Dakota	SD
Tennessee	TN
Texas	TX
Utah	UT
Vermont	VT
Virginia	VA
Washington	WA
West Virginia	WV
Wisconsin	WI
Wyoming	WY

Note: "Maryland" includes the District of Columbia.

**Table 3: Canadian Provinces and Territories Listing.**

Province/ Territory	CODE
Alberta	AB
British Columbia	BC
Manitoba	MB
New Brunswick	NB
Newfoundland and Labrador	NL
Nova Scotia	NS
Northwest Territories	NT
Nunavut	NU
Ontario	ON
Prince Edward Island	PE
Quebec	QC
Saskatchewan	SK
Yukon	YT

<b>Missouri QSO Party Summary Sheet</b>				
Name:		Call Sign:		
Address:		State / Province / DX:		
		Missouri County:		
		MO Club Affiliation:		
Email:				
Entry Class:		<input type="checkbox"/> Missouri School		
<input type="checkbox"/>	DX	<input type="checkbox"/> Missouri Mobile (Single Op LP)		
<input type="checkbox"/>	Missouri Fixed (Single Op HP)	<input type="checkbox"/> Missouri Mobile (Single Op LP CW Only)		
<input type="checkbox"/>	Missouri Fixed (Single Op LP)	<input type="checkbox"/> Missouri Mobile (Single Op LP Phone Only)		
<input type="checkbox"/>	Missouri Fixed (Single Op QRP)	<input type="checkbox"/> Missouri Mobile (Multi Op LP)		
<input type="checkbox"/>	Missouri Fixed (Multi Op)	<input type="checkbox"/> Missouri Mobile (Unlimited)		
<input type="checkbox"/>	Non-Missouri (Single Op HP)	<input type="checkbox"/> Missouri Expedition (Single Op HP)		
<input type="checkbox"/>	Non-Missouri (Single Op LP)	<input type="checkbox"/> Missouri Expedition (Single Op LP)		
<input type="checkbox"/>	Non-Missouri (Single Op QRP)	<input type="checkbox"/> Missouri Expedition (Single Op QRP)		
<input type="checkbox"/>	Non-Missouri (Multi Op)	<input type="checkbox"/> Missouri Expedition (Multi Op)		
<input type="checkbox"/>	Non-Missouri (Canada)	<input type="checkbox"/> Missouri Rookie		
Point and Multiplier Calculations:				
<b>Mode</b>	<b>QSOs</b>		<b>Points</b>	<b>Multipliers</b>
Phone		x 1		MO Counties
CW		x 2		US States *
Digital		x 2		Canadian Prov & Terr *
				DX (1 Only) *
<b>Total QSO Points</b>				
	Total QSO Points x			
Sub Total	Total Multipliers		Total Multipliers	
* for Missouri Stations only				
WOMA Special Event Bonus	100 pts			
KOGQ Special Event Bonus	100 pts			
Log in Cabrillo format bonus	100 pts			
	<b>Claimed Score</b>			
This is to certify that in this contest that I have operated my transmitted within the limitations of my license and that I have observed the rules and regulations of the contest.				
		Signature:		
Send completed summary sheet and logs to:				
Boeing Employees' Amateur Radio Society WØMA			Or via E-mail: <a href="mailto:moqsoparty@w0ma.org">moqsoparty@w0ma.org</a>	
c/o George Mackus, ABØRX				
11841 Wexford Place Drive				
Maryland Heights, MO 63043				
USA				