Managing for White-tailed Deer in Missouri

Establishing a Wildlife Management Cooperative

Wildlife species such as bobwhite quail, mourning doves, cottontail rabbits, wild turkey and white-tailed deer provide recreational and hunting opportunities for Missouri citizens. Missouri’s wildlife resources are dependent on the management decisions made by private landowners, as over 90 percent of the land base is privately owned. Wildlife species such as white-tailed deer (Figure 1) have relatively large home ranges that may encompass several hundred to over a thousand acres; therefore, populations are influenced by management decisions made by multiple landowners and hunters (Figure 2).

Interest in improving hunting opportunities and deer populations in Missouri continues to grow among landowners and hunters. Individual landowners, however, may not be able to implement quality deer management on a large enough acreage to be successful. But groups of neighboring landowners working cooperatively may be able to achieve deer management goals. By forming a wildlife management cooperative, an organized group of landowners, hunters and wildlife enthusiasts can collaborate toward achieving common wildlife goals on their collective properties through habitat improvement, harvest management and education. These goals may include enhancing habitats and populations for specific wildlife to attain desired population objectives and improved recreational opportunities. Through collective action and cooperation among neighboring landowners, larger blocks of land can be managed for a variety of wildlife goals, and each individual landowner gains the management advantages of the collective group.

Wildlife management cooperatives vary in acreage, number of participants and organizational structure, depending on the management goals outlined by the members. For instance, if a cooperative’s goal is to allow more bucks to reach mature age classes, the cooperative needs to encompass several thousand acres to succeed.

By participating in a wildlife management cooperative, landowners develop a greater community bond as they work together to achieve common goals. This bond enhances communication and planning among the group members, who ultimately gain satisfaction when the wildlife and habitat resources are improved for the benefit of the whole group.

History of wildlife management cooperatives

The concept of working together to cooperatively manage multiple tracts of privately owned land for wildlife and economic objectives is not new. Wildlife management cooperatives made up of landowners and hunters have been operating in some parts of the country for several decades. Private timber companies in the southeastern United States have a long history of cooperatively working with individual hunting clubs (or cooperatives) on their properties to improve the quality of white-tailed deer populations and hunting opportunities. Since its inception in 1988, the Quality Deer Management Association (QDMA) has encouraged the formation of quality deer management cooperatives to improve deer management. More recently, wildlife management cooperatives have become popular in the Midwest, and landowners and hunting clubs have formed cooperatives to enhance white-tailed deer habitats and hunting opportunities. The ever-growing interest in managing for mature bucks will predictably lead to...
Benefits of establishing a cooperative

Neighboring landowners and hunters who collaborate in the development of deer management goals and implement practices that benefit populations of white-tailed deer may reap several benefits. A wildlife management cooperative increases the chances that landowners and hunters will accomplish their deer and habitat management goals. For instance, because a cooperative covers a larger area than one landowner’s property, it increases the chances of reaching deer population goals, such as manipulating the herd’s age structure, adult sex ratio or density. Managing for mature bucks in older age classes or manipulating the sex ratio of a herd is almost impossible for one landowner to accomplish. However, such goals become more achievable when landowners work together and focus management efforts toward shared objectives, such as allowing bucks to reach a certain age before being harvested or harvesting a certain number of does to manipulate the herd’s adult sex ratio.

Wildlife management cooperatives also provide the opportunity to collect meaningful deer population data through conducting camera surveys and recording observational and harvest data. This data provides an estimation of the population demographics and overall condition of the herd. Using this information, a cooperative can make informed decisions and adjust management accordingly to achieve specified goals.

Landowners working cooperatively also gain other benefits:

- **Control of trespassing and poaching.** Membership may make landowners more watchful of what is happening on land that is part of the cooperative.

- **Increased economic returns and property value.** Improving habitat quality can increase the economic value of a property, especially with the enhanced potential for lease hunting. Access to quality hunting land is becoming an increasingly valuable commodity. A wildlife management cooperative can market these recreational opportunities to achieve economic goals.

- **Accomplishment of habitat management objectives across multiple ownerships.** Landowners who make habitat management investments on relatively small acreages (less than 100 acres) are rarely able to achieve the desired response within a population of white-tailed deer. Individual small tracts do not have enough acreage to satisfy all the habitat needs of a deer population. By working collectively, however, neighboring landowners dramatically increase their chances of successfully improving habitat over their large combined acreage.

- **Improved relations with adjoining landowners.** Members of a wildlife management cooperative tend to develop more understanding, trust and cooperation as they work together toward accomplishing their similar goals and wildlife management objectives.

- **Improved habitat management and sharing of equipment and labor.** Cooperatives improve the chances of successfully conducting timely habitat improvement practices that improve the area for hunting and benefit deer and other wildlife species (Figure 3). In addition, they provide opportunities for sharing equipment and labor, such as disking, planting, mowing, applying herbicides and planting shrubs or trees (Figure 4).

- **Improved hunting opportunities on land within the cooperative.** Members of a wildlife management cooperative can work together to improve the quality of hunting and ensure that deer stands are placed in optimal and proper locations (Figure 5).

- **Increased educational opportunities and services.** Participating members can promote and organize educational programs on wildlife management topics of interest. Also, cooperatives may have better access
to a variety of resource professionals and wildlife biologists, who can help develop wildlife management plans and provide management recommendations for deer and other wildlife species of interest.

Steps for successful organization

Establishing a successful wildlife management cooperative takes time and effort. The cooperative must have an organizational structure, which implies cooperation, leadership and communication among members. A proven process for successfully organizing a cooperative has the following five steps:

1. Evaluate local interest

The first step in establishing a cooperative is to evaluate your neighbors’ interest. Make a list of nearby landowners who share similar interests in wildlife, hunting or both. Then discuss the formation of a cooperative with each of them individually to find out who would support a cooperative.

2. Conduct an initial meeting

Next, conduct an organizational meeting of interested landowners. The primary purposes of this initial meeting are simply to inform the attending landowners about the cooperative approach of managing deer and other wildlife species of interest, and to gauge their interest in participating in a cooperative. You may wish to invite resource professionals, wildlife biologists and MU Extension specialists who can provide additional information, resources and guidance for developing and managing a successful wildlife management cooperative.

In most cases, not everyone who attends the meeting will immediately commit to the concept of a wildlife management cooperative. As stated above, the intent of the meeting is to provide information and discuss the possibility of forming a cooperative. During this initial meeting, the group should consider these and other questions:

• Do landowners in the area share similar wildlife goals?
• How would a wildlife management cooperative benefit each member?
• Are enough area landowners interested in supporting a cooperative?
• Do the interested landowners own enough acreage to support a cooperative?

3. Develop the organizational structure

The organizational structure of a wildlife management cooperative must meet the members’ needs. Wildlife management cooperatives can be very informal, with decisions made on a handshake, or can be more formal, with written and signed agreements. Various organizational elements that need to be considered are described below.

• Membership agreement. The formal signing of a membership agreement is highly recommended. Although the document is a nonbinding agreement, the signing of it signifies a member’s commitment to the cooperative. A membership agreement states that the member agrees to cooperate with the other members and follow the wildlife management practices and recommendations adopted by the cooperative. By signing this agreement, a member commits to work toward accomplishing the cooperative’s goals. A sample membership agreement is available on page 7 of this document.

• Bylaws. Bylaws provide guidance in governing the operations and internal affairs of an organization. If a cooperative intends to charge a membership fee and thus open a bank account, the bank may ask for a copy of the bylaws. Sample bylaws are available on pages 8–9 of this document.

• Wildlife management plan for the property.

A wildlife management plan is key to a successful wildlife management cooperative. The plan details the management goals and objectives, and outlines the management practices and actions that will need to be implemented to achieve the desired outcomes. A management plan is dynamic and should be adapted and updated as needed. Help developing the plan and making management decisions can be obtained from wildlife biologists and natural resource professionals.
• **Funding mechanism.** The cooperative may benefit from collecting funds, in the form of monthly membership dues or an annual fee, to be used for operation expenses. Potential annual expenses may include conducting habitat management practices, developing newsletters, and providing meals and membership signs.

• **Leaders.** The cooperative will need leaders, either voluntary or elected, to provide leadership and organization. Maintaining motivated leaders can sometimes be challenging for new cooperatives but is one of the most important organizational elements. Electing members to formal leadership positions can help instill a sense of responsibility to the group.

4. **Recruit additional landowners**

Once the cooperative has been organized, it may need to continue recruiting members, including adjoining landowners. In general, the more acreage that is actively under the cooperative’s management, the greater the likelihood of success, particularly for managing deer populations. If quality deer management is an objective, the cooperative will need to influence the management decisions across several thousand acres. Consequently, recruiting new members into the cooperative is an important element for success. Individual property owners each have landownership objectives, which may include crop or livestock production, timber management or wildlife recreation. The cooperative will need to market itself to attract a broad group of landowners, encouraging each to adopt the cooperative philosophy of managing the wildlife resource and recognize the value of their participation. Promotional brochures can be developed as a means to recruit new members. A sample promotional brochure is available on pages 10–11 of this document. Wildlife management cooperative signs are also a good marketing tool (Figure 6).

5. **Achieve cooperative’s objectives**

**Collect information and data**

One goal that a wildlife management cooperative can achieve is improving the habitat on the area to support a greater diversity of wildlife or to enhance the population of a specific species, such as white-tailed deer. Regardless of the management objective, the cooperative needs to develop a method of tracking progress. Collecting and interpreting data is critical for making management decisions and evaluating progress.

For more information on collecting and interpreting deer population data, refer to MU Extension publications G9481, G9482 and G9483 on estimating deer populations using camera surveys, observational data and harvest data, respectively, and G9484, Aging a Deer by Examining Its Jawbone. For example, removing and examining each harvested deer’s lower jawbone will provide important information about the population (Figure 7).

**Maintain interest**

Successful wildlife management cooperatives have an organizational structure that allows each member to make a valued contribution and enjoy benefits from participating. The key to keeping people involved in a cooperative is to make participation an enjoyable experience. Therefore, a cooperative should have a strong social component. Events like picnics, big buck contests, farm tours and educational programs will help members develop relationships and stay enthused about being involved with the cooperative.

Be sure to provide periodic updates on the cooperative’s progress toward various management goals and objectives. Timely meetings, newsletters or email messages are excellent ways to keep members informed. Other ways to communicate the cooperative’s status include providing members with annual reports of accomplishments, harvest summaries, population trends and maps.

**Common attributes of successful cooperatives**

Establishing a wildlife management cooperative is a proven method for effectively managing white-tailed deer and other wildlife species across multiple properties. Remember that members voluntarily choose to affiliate with a cooperative and membership does not entitle neighboring hunters to have access to your property nor diminish control of your property.
Cooperatives can be challenging to establish and maintain. Most successful cooperatives possess some common attributes:

- **Set realistic goals.** A cooperative should adopt goals that will appeal to diverse landowners (and hunters) in the area. Setting realistic management goals can prevent members from being discouraged.
- **Have motivated leaders.** To succeed, a cooperative must have a group of leaders who have agreed to organize and lead it.
- **Have active, engaged members.** Each member should fully embrace the goals and objectives of the cooperative and take an active role in implementing the management plan.
- **Collect appropriate data.** Accurate information must be collected, as it provides the basis for making sound management decisions.
- **Seek management advice from a professional wildlife biologist.** A professional wildlife biologist can help develop realistic goals, provide management recommendations and analyze collected data. In addition, working with a wildlife biologist will increase the cooperative’s credibility in the eyes of prospective members. Wildlife biologists who work as consultants offer these technical services for a fee; the Missouri Department of Conservation often provides these services for free.
- **Communicate openly.** Regular communication is essential to maintain positive relationships and trust among members. Periodic meetings, newsletters or other events are great methods to maintain relationships and keep everyone in agreement.

- **Effectively recruit new members.** A wildlife management cooperative will not succeed without active members. Consequently, the cooperative must adopt an effective marketing and advertising strategy. Remember to market the cooperative in a way that will appeal to diverse landowners in the area.
- **Develop a membership agreement.** Although not all cooperatives use one, a membership agreement is an excellent way for individual landowners to express their commitment toward following the adopted recommendations.
- **Provide a fun and safe atmosphere.** Keep in mind that most members are not using the cooperative for economic gain. Instead, the cooperative will help individual landowners achieve more enjoyment from the improved recreational opportunities that result from working together to achieve wildlife goals and objectives on their properties.

### Additional information


Photo credits: Missouri Department of Conservation, Jeff Esely and Emily Flinn.

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**ALSO FROM MU EXTENSION PUBLICATIONS**

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Sample list of wildlife management cooperative goals.

Show-Me Deer Management Cooperative Goals

- To enhance the habitat within the Cooperative boundaries using management techniques that improve the food and cover requirements identified for white-tailed deer.

- To help the Cooperative improve the quality of the deer herd by managing for a greater number of mature bucks and a more balanced adult sex ratio.

- To enhance a diversity of wildlife populations, such as wild turkey and bobwhite quail, through the implementation of habitat management practices that create early successional vegetation in strategic areas within the Cooperative.

- To enhance the forest resources within the Cooperative for wildlife and potential economic benefits.

- To encourage landowners and hunters to collect appropriate deer population and harvest data for use in making management decisions within the Cooperative.

- To have improved hunter-landowner relations within the Cooperative.

- To provide opportunities for youth to participate in deer hunting and to promote a safe and ethical hunting experience for all Cooperative members and their guests.
Show-Me Deer Management Cooperative
Membership Agreement

Name

Address

Telephone number

1. I own _______ acres within the proposed boundaries of the Cooperative.
   (OR)
   I control access to _______ acres owned by _________________________________, which are located within the proposed boundaries of the Cooperative.
   (OR)
   I have received permission to have hunting rights on _______ acres, owned by ________________________________, which is located within the proposed boundaries of the Cooperative.

2. I agree to support the goals that have been identified by and assist with the wildlife management recommendations of the Show-Me Deer Management Cooperative.

3. I agree to protect fawns and yearling bucks from harvest.

4. I agree to make a good-faith effort at promoting this Cooperative to my neighbors and hunters.

5. I understand that this agreement is not binding and I am in no way obligated to the Cooperative.

6. This agreement does not give any unauthorized person the right to trespass on the above-listed property.

7. Annual membership dues are $10, and all memberships expire on Dec. 31 of each year.

8. I would be interested in serving on a committee if needed (circle one): Yes  No

Signature

Date

Please mail completed agreement to: Show-Me Deer Management Cooperative, P.O. Box 000, Record Book Bucks, MO 11111
Sample landowner wildlife management cooperative bylaws.

**Show-Me Deer Management Cooperative Bylaws**

1. This wildlife management cooperative shall be called the Show-Me Deer Management Cooperative.

2. The Cooperative seeks to implement quality deer management goals and objectives for the purpose of improving the age structure and adult sex ratio of deer for improved recreational opportunities and a healthy deer population.

3. Technical assistance for developing proper wildlife management practices for the area will be provided by Missouri Department of Conservation (MDC) staff or certified wildlife biologists that are identified as consultants.

4. Recommended wildlife management practices include, but are not limited to, these practices:
   - Habitat management
   - Establishment of adequate doe harvest, based on deer population data collected by the Cooperative
   - Protection of fawns and yearling bucks from harvest
   - Collection of recommended deer harvest and observational data for making management decisions

5. Members are encouraged to help curtail illegal hunting during the year by watching for road hunting, night hunting and trespassing and to report such activities to their neighbors and the MDC.

6. The Cooperative will promote the collection of deer harvest and observation data to help evaluate management progress. Data will be collected during each hunting season and recommendations for the following year will be provided to the cooperative the next spring.

7. Members are encouraged to participate in educational programs and improve landowner-hunter relations and neighbor relations.

8. Members should encourage their non-member neighbors to join the cooperative to increase the number of acres under management.

9. Cooperative leadership will consist of a board of six to eight directors, three of whom will serve as officers.
   - Directors will be elected by active members of the Cooperative. In the first election, two directors will be elected to three-year terms, two will be elected to two-year terms and two will be elected to one-year terms. In subsequent elections, all terms will be three years. This will maintain continuity within the board.
   - Any board member or officer may serve an unlimited number of terms if re-elected by the membership.
   - Officers will consist of president, vice president and secretary-treasurer.
   - The immediate past-president will stay on as an ex-officio member but will not have a vote.
   - Directors will receive no financial compensation.
   - One representative from the Missouri Department of Conservation may be invited to serve on the board as an ex-officio member in an advisory capacity and will not have a vote.
   - Board of director meetings should be held three to four times per year and are open to all cooperative members.
   - Board of director elections may be conducted by mail or during an cooperative meeting.
Show-Me Deer Management Cooperative Bylaws (continued)

• The board of directors may establish special committees as determined necessary.
• One meeting of members will be held annually.
• A board member or officer may be removed from office by a two-thirds majority vote of the board.
• If any board member is absent from three consecutive board meetings without notifying the president in advance, the member will be considered to have resigned from the board and the vacant position will be filled as outlined above.

10. The following procedures will be used in case of unexpected vacancies in office:

• In the case of a vacancy on the board, the president shall nominate a Cooperative member to complete the unexpired term and the board shall then vote to confirm the nomination.
• In the case of a vacancy in the position of president, the vice president shall temporarily serve as president and will nominate a member of the Cooperative to fill the empty board position. The board will vote to approve this nomination and then shall elect a president from among the board members if the vice president does not want to continue as president.
• In the case that the vice president or secretary-treasurer resigns, the president shall nominate a member of the Cooperative to fill the empty board position. The board shall vote to approve this nomination and will then elect one of the directors to assume the vacated officer position.

11. Annual memberships will be $10. Additional donations will be accepted.

• Membership signs will be available to each member for a nominal fee.
• Dues will be assessed each year according to the needs of the cooperative.
• Money will be used for postage, advertisement and educational programs.
• Membership will run from Jan. 1 through Dec. 31 each year.

12. Each member has one vote.

13. Membership is open to anyone interested in wildlife and habitat management.

14. After recommendation by the bylaws committee and approval by the board of directors, proposed changes to the bylaws will be voted on by the membership. These bylaws may be changed by a two-thirds vote of membership by email, postal mail or fax or at a general meeting.

15. The Cooperative will establish a bank account at a local financial institution agreed upon by the president and secretary-treasurer of the cooperative.

16. All finances will be deposited in the Cooperative’s bank account. Signatures of the secretary-treasurer and one other officer or director will be required on each check or withdrawal. In the event of termination of the Cooperative, any money remaining in the account will be donated to the Missouri “Share the Harvest” program.

17. It is unnecessary for each member to agree with every recommendation or wildlife management objective identified by the majority of members; however, it is hoped that each member will willingly support the general principals of wildlife conservation.
CRWMA Membership Agreement

Name: ____________________________________
Street address: ______________________________
__________________________________________
City: ______________________________________
State: _____________________  ZIP: ____________
Telephone number: ___________________________
Email: _____________________________________

1. I support CRWMA's three primary goals.
2. To the best of my ability, I agree to protect fawn and yearling bucks from harvest.
3. I agree to make a good-faith effort at promoting this association to my neighbors and to hunters.
4. I understand that this agreement is not binding and I am in no way obligated to CRWMA.
5. This agreement does not give any unauthorized person the right to trespass.
6. Annual membership dues are $10, and all memberships expire on Dec. 31 of each year.
7. New members will receive two association signs. Additional signs are available for donations of $5 each.
8. I would like to receive the free Covey Headquarters newsletter (circle one): Yes No
9. I would like to receive a free subscription to the Missouri Conservationist magazine (circle one): Yes No

Signature: ________________________________
Date: ________________________________
Number of extra signs desired ($5 donation each): ______
Total amount enclosed: ______________________

Please mail completed agreement and dues to:
Cuivre River Wildlife Management Association
Address
City, state and ZIP code

Habitat Is Key
Habitat is the primary factor affecting wildlife populations on the landscape. Consequently, CRWMA is working to promote habitat improvement within the target area. We are consulting with professionals to develop wildlife management recommendations for the area that landowners can implement. Members will receive a CRWMA wildlife enhancement plan outlining these practices.

Board of Directors

President
Vice President
Secretary/Treasurer
At-Large Board Members

MDC Advisory Member

It is not necessary for every member to agree with every objective of the association, rather each member should support the general principles of wildlife conservation.

Join today!

(Established in 2008)

extension.missouri.edu > natural resources > wildlife > conservation > g9490
University of Missouri Extension
What We Are About

We all know that wildlife are not constrained by property boundaries. Species like deer and turkeys have home ranges encompassing hundreds of acres. Consequently, management of wildlife on private land poses challenges, especially when quality whitetails are a goal. By encouraging neighbors to band together and adopt similar wildlife management practices, the Cuivre River Wildlife Management Association (CRWMA) represents a means of overcoming these challenges. Formed by area residents, CRWMA is a cooperative effort of landowners, hunters and wildlife conservationists working toward the common goals of enhanced wildlife populations and better hunting opportunities on the landscape.

CRWMA Goals

CRWMA was organized around these three goals:

1. To improve the quality of the white-tailed deer herd on the landscape by managing for more bucks and a more balanced adult sex ratio.

2. To enhance wildlife populations on the landscape through the promotion of habitat management, with early successional species such as bobwhite quail being a high priority.

3. To recruit youths into hunting who are safe, ethical and knowledgeable about the principles of wildlife conservation.

Where We Are Working

As shown on the map below, the initial CRWMA target area is 32,000 acres in western Lincoln County, near Hawk Point and Truxton. However, membership is open to anyone wishing to promote wildlife in their area. Regardless of the location, the more neighboring landowners and hunters who join the effort, the more successful everyone will be in reaching their wildlife management goals.

Due largely to the number of landowners interested in improving their property for wildlife, this area has also been selected by the Missouri Department of Conservation as a Missouri Quail Focus Area. As a result, enhanced cost-share incentives are available for many habitat improvement practices.

How Membership Can Benefit You

• Increased odds of quality deer management success. More people passing on young bucks means more big deer in the woods. Even if you already follow quality deer management harvest practices, your neighbors may not. Placing a CRWMA sign on your fence may influence your neighbors to do the same.

• Better control of trespassing. You will receive association signs to announce your participation. Participation in the association will likely lead to increased vigilance among members.

• Access to workshops and presentations by professional wildlife managers on topics such as wild turkey management and food plot strategies.

• Increased land value. Quality hunting land is becoming an increasingly sought-after commodity, and this association will likely attract the attention of people looking to buy or lease land for hunting.

• Magnified results of habitat management.

• Improved relations among neighbors.

• Potential discounts on items such as seed and herbicides for wildlife habitat.

• Potential equipment-sharing opportunities.

• Potential labor-sharing opportunities, such as for assembling prescribed burn crews.

• Youth education opportunities.

• Better hunting.

Will you join our effort?