

**Wisconsin Department of Natural Resources
Natural Resources Board Agenda Item**

SUBJECT: Shooting range guidance document for range development considerations on department lands.

FOR: May 2014 Board meeting

TO BE PRESENTED BY: Keith Warnke

SUMMARY:

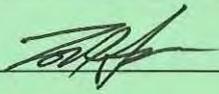
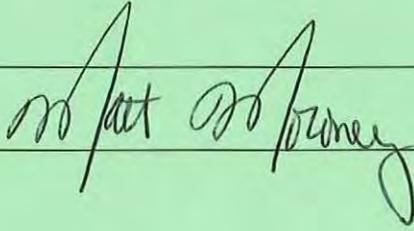
Department staff are finalizing the first shooting range development guidance document for use in the master planning process. The board will be briefed on the goals and strategies for range development.

With an estimated 1.7 million firearm owners in Wisconsin and only five public ranges in the southeastern third of the state, there is need for expanded public shooting opportunities. This document will provide planners and property managers with the necessary guidance for consideration of shooting ranges on department owned land, focusing on providing more shooting opportunity in the southeastern third of the state.

RECOMMENDATION: Information only

LIST OF ATTACHED MATERIALS (check all that are applicable):

- Background memo
- Range guidance document
- Type name of attachment or type N/A if not applicable
- Type name of attachment or type N/A if not applicable

Approved by	Signature	Date
Todd Schaller, Bureau Director		5/5/14
Not applicable, Administrator		
Cathy Stepp, Secretary		5/5/14

DATE: May 2, 2014

FILE REF:

TO: Natural Resources Board

FROM: Cathy Stepp

SUBJECT: Wisconsin shooting range guidance document

Wisconsin DNR has a long history of promoting safe and accessible shooting opportunities including a commitment to provide ranges on public lands and a shooting range grant program to assist in maintenance and development on private ranges in exchange for some public access.

Attached is our shooting range guidance document to be used in master planning processes statewide. We will make this document available for public input on the program guidance webpage for 30 days. Following that review period, this document will guide decisions about shooting range development on public land and considerations for redevelopment and renovation of existing public and private ranges.

Shooting Ranges in Wisconsin

Introduction

Wisconsin DNR has a long history of promoting safe and accessible shooting opportunities including a commitment to provide ranges on public lands and a shooting range grant program to assist in maintenance and development on private ranges in exchange for some public access. There are estimated to be over 400 shooting ranges in Wisconsin of which between 30 and 35 are on public land (state, county, or municipality). Five of these public ranges are located in the southeastern third of the state where the majority of the population live.

The public ranges are considered generally heavily used and several are in need of repair and/or maintenance work. Recently five public range renovations have been completed with at least another dozen in line to be considered in the coming years.

Funding for range projects is available from several sources including public funding from the Pittman-Robertson (PR) grant and private funding from groups such as the National Rifle Association, and the National Shooting Sports Foundation. Furthermore, because the PR grant revenues are taxes paid by shooters and hunters on ammunition and equipment, more people safely using ranges will provide Wisconsin DNR with increased funding. The primary objective of this strategic plan is to prioritize range work and provide guidance for accessing and applying the available funding to needs identified at ranges for the next five fiscal years.

This plan was developed by the Hunting and Shooting Sports Coordinator in cooperation with staff from the Secretary's Office and the bureaus of Law Enforcement, Wildlife Management, Facilities and Lands, and Remediation and Redevelopment.

Current Opportunity

With an estimated 1.7 million firearm owners in Wisconsin and over 400 ranges, including only five public ranges in the southeastern third of the state, there is need for expanded public shooting opportunities.

Vision

In order to help maintain and expand recreational shooting and Wisconsin's hunting heritage and the economic impact those activities have, we will increase opportunities for shooting in a safe environment within a reasonable distance of shooters' homes and in a location intended for recreational shooting.

Goals

1. Improve and increase public awareness of and access to quality, safe shooting opportunities at established ranges.
2. Decrease shooting at non-range sites on public lands.
3. Implement sound environmental stewardship on publicly owned and funded ranges.
4. Encourage sound environmental stewardship on privately owned ranges.

Actions Goal 1: Improve and increase public access to quality, safe shooting opportunities at established ranges.

1. Evaluate and implement range renovations at public ranges.
2. Ensure that shooting range establishment is considered in master planning efforts on department lands. (see criteria below)
3. Identify locations and build new and renovate existing public shooting ranges as budgets and priorities permit.
 - a. Consider identifying suitable locations and purchasing an option to purchase while range siting process is ongoing.
4. Evaluate leasing public access to existing ranges as an alternative to building ranges.
5. Re-start the shooting range grant program (NR 50.17) in FY2013.
 - a. See attached grant program
6. Work with partners to develop agreements for range maintenance at all public land ranges if possible.
7. Inform the public about range availability and locations with media releases, web pages, apps, and social media.
8. Annually review this strategic plan and adapt as needed.

Actions Goal 2: Decrease shooting at non-range sites on public lands where necessary.

1. Continue focus on Goal 1, making adequate shooting opportunity available.
2. Work with partners to clean up unauthorized shooting ranges.
3. Provide shooters at these sites with information about where they should be shooting.

Actions Goal 3: Implement sound environmental stewardship plans for publicly owned and funded ranges.

1. Follow best management practices recommendations from organizations such as the National Shooting Sports Foundation and the Environmental Protection Agency.
2. Follow EPA's Best Management Practices for Lead at Outdoor Shooting Ranges.
3. Demonstrate the feasibility and cost effectiveness of lead reclamation at both rifle and shotgun ranges.

Actions Goal 4: Encourage sound environmental stewardship of ranges not under state management.

1. Inventory existing ranges by county.
2. Encourage range owners and operators to follow best management practices recommendations from the National Shooting Sports Foundation's Environmental Aspects of Construction and Management of Outdoor Shooting Ranges.

3. Encourage range owners and operators to follow EPA's Best Management Practices for Lead at Outdoor Shooting Ranges.
4. Education/communication with non-publicly owned ranges to promote the feasibility and cost effectiveness of lead reclamation.
5. If possible, work with ranges shooting over water or wetlands to manage the shot-fall zone, re-orient the range, and/or reclaim the lead.

Priorities for Range Renovation and Maintenance

1. Renovation and maintenance of public ranges located within 50 miles of LaCrosse, Eau Claire, Milwaukee, Kenosha, Waukesha, Madison, Janesville, Appleton, or Green Bay.
2. Increasing public access at private ranges located in the above area through the shooting range grant program.
3. Renovation and maintenance of public ranges anywhere in Wisconsin.

Considerations for Master Planning and Siting New Ranges on Public Property

Planning and siting a new public shooting range sites in southeastern Wisconsin between Green Bay, Kenosha, Janesville, and Madison as part of acquisition and master planning is a high priority. Developing outdoor public rifle and handgun shooting opportunities is the top priority. Demand for trap and skeet shooting appears to be growing and managers should look to partner with local clubs to enhance opportunity. Additionally, trap and skeet shooting can be considered in the master planning process where staff and infrastructure are supportive. Public archery ranges are becoming more popular and should be considered.

Wisconsin provides four types of public shooting opportunity listed in order of permanence from most to least.

1. Publicly owned and operated ranges open to the public. These opportunities are most limited in the southeastern quarter of the state and making more available is a high priority for the department.
2. Public access obtained through the Shooting Range Grant Program. These leases extend for 20 years. It is important to note the number of years remaining on the lease and the amount of public opportunity when considering the permanence of this shooting opportunity.
3. DNR leases of public use at private ranges. These opportunities may extend for a period of months to years but can be terminated or not renewed by either party.
4. Private ranges open to the public at their own discretion. These opportunities are subject to elimination at any time.

Our minimum objective is to provide at least five days per week of permanent open public rifle and handgun shooting opportunities (number 1. above) at a minimum of 10 shooting stations (five of which are at ranges of 100 yards or greater) per 100,000 residents. While 100 yard rifle ranges are the minimum, planners are encouraged to consider providing longer shooting distances. Public shooting opportunities are supplemented by providing additional access through items two through four.

According to recent surveys by the National Shooting Sports Federation, approximately 30% of Wisconsin residents own firearms. Providing 50 shooting station-days per week (5 days X 10 shooting stations) for 30 weeks (fair weather) per year results in 1,500 shooting stations-days per year in the 100,000 person radius. If 10% of firearm owners use a public range near where they

live, meeting this objective will provide each of them with about a half-day of range time per year.

Evaluation of a property for acquisition or potential inclusion of a shooting range in the master plan should include a measure of population and an assessment of public shooting ranges within a 30 mile radius of the property and the area population. If there are fewer than 5 days per week of permanent open public rifle and handgun shooting opportunities within the 100,000 resident radius of the property (refer to Figure 1. and use a GIS analysis of property location), developing a public shooting range is a high priority. Use Figure 1. to evaluate: if the property is in a shaded county and is not within a circle, a shooting range will be evaluated as part of master planning. If there is a public range within 30 miles (Figure 2.) and the 100,000 resident radius is greater than 30 miles of the subject property, a range can be considered based on public input and compatible uses but is not a high priority.

Additional priority to locate a range is added when the subject property is located in one of the eighteen counties listed in NR 45.09 (5): No person may possess any loaded or uncased firearm or air gun while within the exterior boundary of state-owned lands posted with department signs in Dane, Dodge, Fond du Lac, Jefferson, Juneau, Kenosha, La Crosse, Manitowoc, Milwaukee, Outagamie, Ozaukee, Racine, Sauk, Sheboygan, Walworth, Washington, Waukesha and Winnebago counties, except as follows:

- (a) While engaged in hunting in accordance with the open seasons established in s. NR 10.01 on the portions of properties where hunting is authorized.
- (b) At target ranges designated by the department.
- (c) While engaged in dog trials under department permit.
- (d) While training dogs in designated areas under department permit.
- (e) When paintball guns are approved pursuant to s. NR 45.04 (3) (u).

Figure 1.

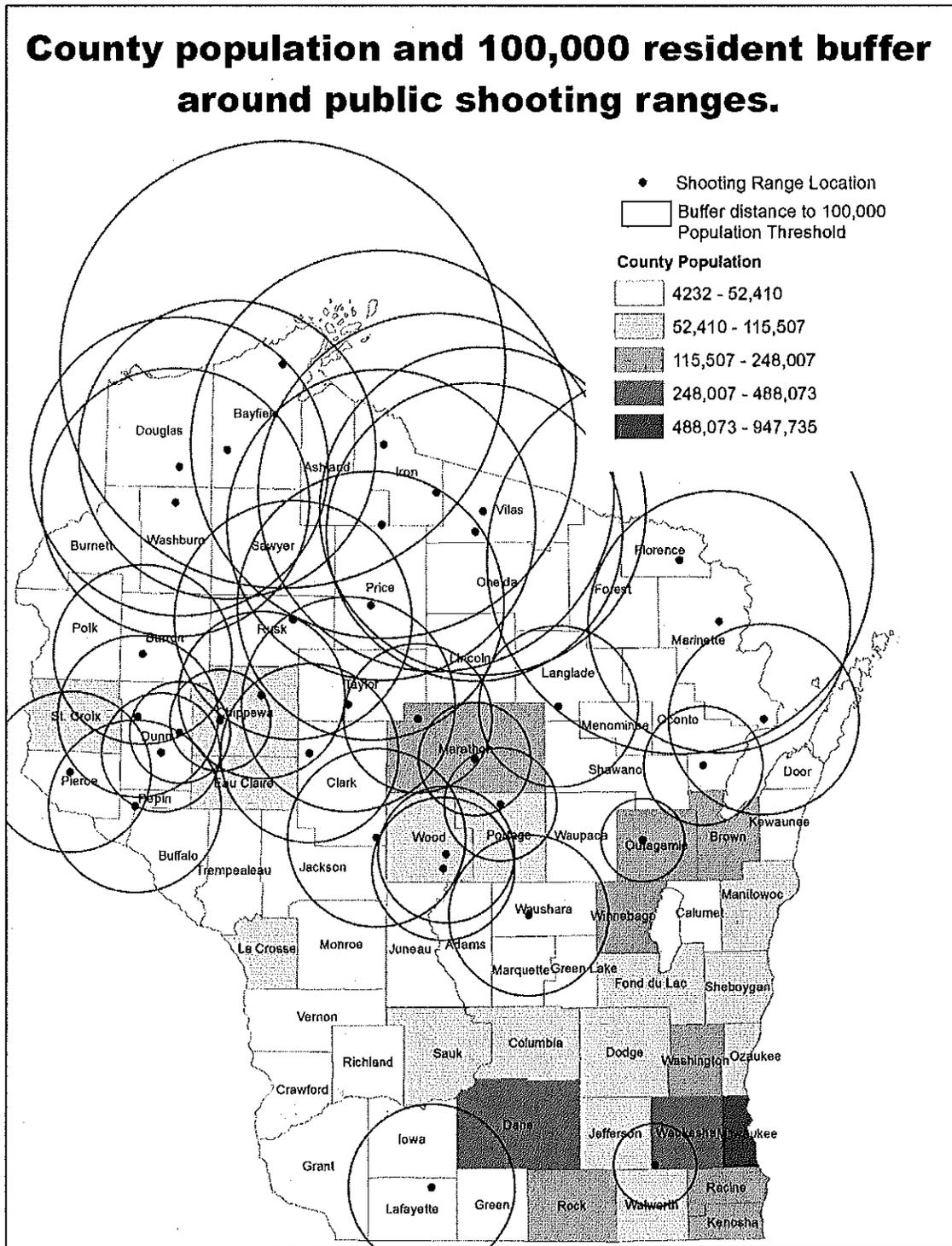
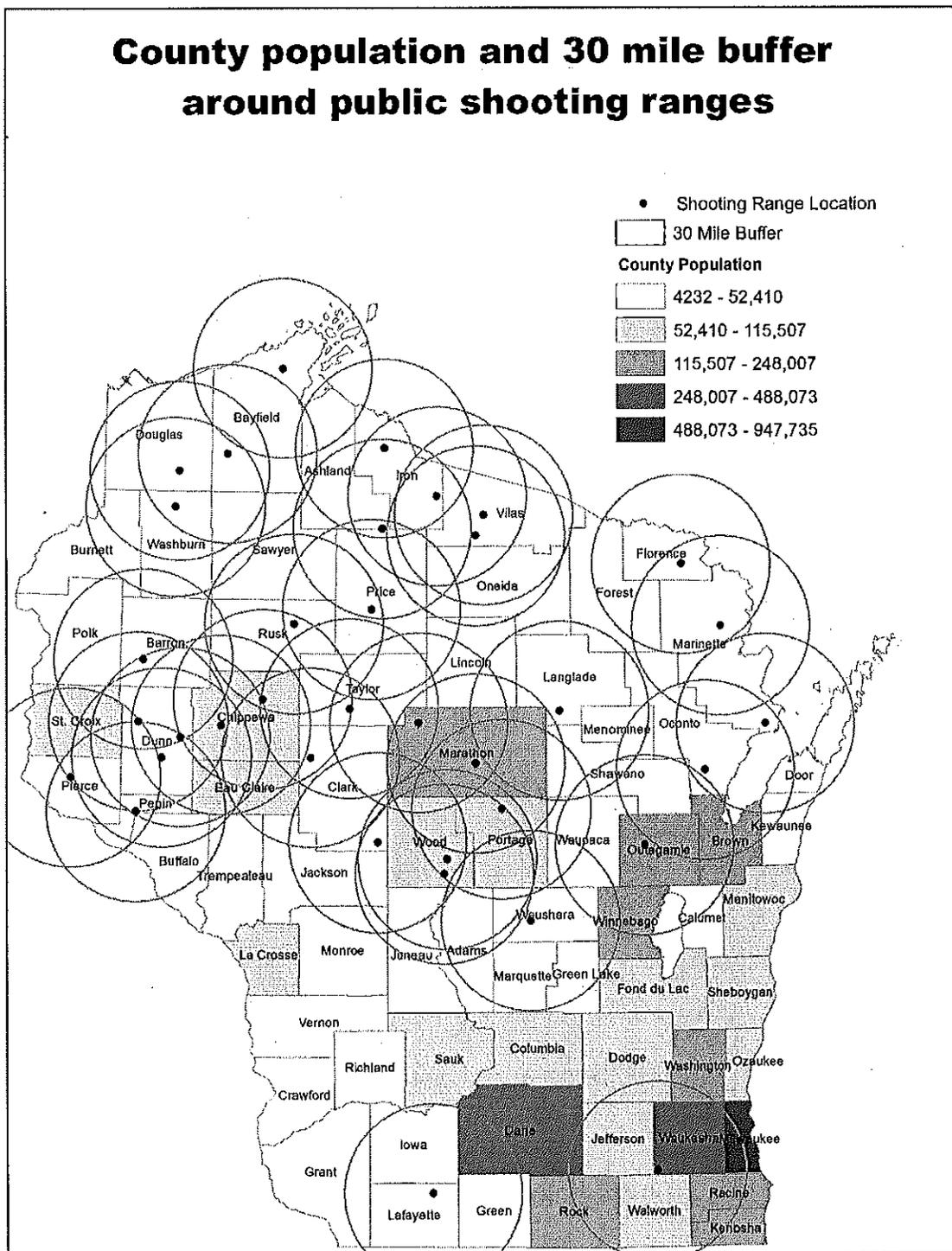


Figure 2



Where to Shoot in Wisconsin

See the DNR web page with links to ranges offering public access:
<http://dnr.wi.gov/education/outdoorSkills/shootingRanges/>

The Wisconsin Shooting Environment and Identification of Needs

Americans, in general, view shooting sports as acceptable. According to a nationwide study conducted by Responsive Management in 2006, 79% of Americans approve of recreational shooting, with most of them *strongly* approving. Responsive Management research also found that 63% of respondents indicated that shooting sports are perfectly acceptable today. Each year, millions of Americans participate in the shooting sports, including target shooting, archery, bow hunting, sporting clays, trap/skeet shooting, and hunting.

(Responsive Management is an internationally recognized public opinion and attitude survey research firm specializing in natural resource and outdoor recreation issues. Our mission is to help natural resource and outdoor recreation agencies and organizations better understand and work with their constituents, customers, and the public.)

Responsive Management (2006) found that the most popular shooting sport is hunting, closely followed by recreational target shooting with a rifle. This study showed that people in the Midwest participated at a higher rate than elsewhere in the country. An estimated 18.4% of adults in the mid-west participate in some type of target shooting, resulting in an estimated 800,000 people in Wisconsin. There are between 400 and 900 shooting ranges in Wisconsin. Assuming even distribution of the ranges relative to the shooters, each range would have to serve between 900-1300 shooters. However most ranges are seasonal or limited in terms of number of shooters or open only to members resulting in an increased demand at the public ranges.

Responsive Management (2010) found that among hunters, opportunities to shoot with a friend or at a shooting range are reported as situations that would increase participation in the shooting sports. Responsive Management research indicates that the most important reasons for participating in any of the shooting sports (other than hunting) typically include honing skills, having fun, and to be with family and/or friends.

Shooting ranges are essential to the future of hunting and the shooting sports. People need affordable places reasonably close to home to learn and practice safe handling of firearms. Hunters' needs are the same for places to site-in and practice with their firearms. Of the ranges on public land, the majority are not staffed. Several others are staffed and operated by a contractor concessionaires, volunteer groups, and/or county employees.

Public access to shooting opportunities in Wisconsin are particularly limited in the south half of the state with only three DNR managed ranges south of State Highway 10 to serve well over half of the population. Further, in 18 southern counties target shooting on department lands is prohibited, increasing the off-range shooting pressure on public lands where it is legal and demonstrating the need for increased access to shooting ranges. One of the three public ranges in southern Wisconsin (Waushara County) was renovated in spring 2012, and the other two (Yellowstone Lake in Lafayette County and McMiller in Waukesha County) were upgraded in FY2013.

In northern Wisconsin there are at least 29 shooting ranges on public land and these generally also receive heavy use although shooting outside of an established range is permitted in all

northern counties. Two maintenance projects are scheduled for FY2013 in northern Wisconsin: Snaketrack in Iron County and Caywood in Vilas County.

Establishing and maintaining shooting ranges on public land is sound environmental management as well. Shooting ranges provide an established and managed location for shooting which provides a safer and manageable alternative to simply shooting on a public land. Since most shooting ranges on public land are managed and maintained by local partners, and lead abatement can be easily performed at an established range, having a managed shooting range on state property can be a preferred alternative in terms of safety and environmental stewardship.

The National Rifle Association, National Shooting Sports Foundation, and EPA Region 2 all encourage operators of shooting ranges to adopt best management practices and/or environmental stewardship plans for the sites. During the active life of a shooting range, steps can be taken to reduce the amount of lead in the environment. A lead management program, which employs a variety of best management practices (BMPs), should include bullet and shot containment, prevention of lead migration, and periodic lead removal and recycling. There are many techniques available to achieve these objectives, which can be designed to meet the specific needs of individual ranges.

Table 1. Shooting ranges on public land

Name	County	Town	Range	Section
Flambeau River	Ashland	41	1E	34
Owen-Anderson Rifle Range	Barron	33	13W	17
North Boundary Range (county forest)	Bayfield	50	6W	36
Cornell (county forest)	Chippewa	31	7W	24
Tilden Shooting Range (county forest)	Chippewa			
Sherwood Shooting Range	Clark	23	1E	21
Eau Claire Lakes Cons. Club	Douglas	45	9W	25
Northwoods Trap and Rifle Range	Douglas	44	11W	22
Boyceville	Dunn	30	14W	36
Colfax	Dunn	29	11W	29
Menomonie (county forest)	Dunn	28	12W	32
Florence County Shooting Range	Florence	38	18E	5
Northwoods	Iron	42	4E	2
Snaketrack	Iron	45	1E	15
Yellowstone	LaFayette	3	4E	3
Langlade (county forest)	Langlade	31	10E	8
Corbin (county forest)	Marathon	27	7E	5
Amberg Range	Marinette			
Peshtigo Harbor Wildlife Area	Marinette	29	23E	4
Silver Birch Park	Pepin	25	14W	36
Pierce County Public Range	Pierce	26	17W	5
Cranberry Creek	Price	36	1E	18
Dewey (county forest)	Portage	25	8E	27
Machickanee (county forest)	Oconto	27	19E	24
Shiocton	Outagamie	23	16E	28
Josie Creek Park	Rusk	35	5W	14
Taylor County	Taylor	30	2W	1
Boulder Junction	Vilas	42	7E	
Caywood	Vilas	40	6E	14
McMiller Range	Waukesha	5	17E	29
Wautoma	Waushara	19	10E	30
Frog Creek Washburn county forest	Washburn	42	11W	31
Wood County Range (county forest)	Wood	22	5E	4

Development Criteria and Priorities for Ranges on Public Land

General criteria for range development

1. Location: Ranges may be built on department lands where the range is compatible with the surrounding landuse. Ranges can also be built on county, federal, or local government lands. Some considerations to take into account:
 - Be aware of the issue of noise disturbance to residences within 1,000 yards
 - i. Noise mitigation techniques can be employed to mitigate the disturbance
 - Avoid wetlands or hydric soils or soils with hydric inclusions
 - Avoid State Natural Area's
 - Avoid archeological sites
 - Direct road access is preferred
 - Located adjacent to major highways and roads
 - Minimize impact on other recreational users
 - Minimize impact on blocks of wildlife habitat
 - Topography that is supportive of developing a shooting range
2. Minimum Range Specifications:
 - The footprint will be determined by the amount and variety of shooting opportunities offered.
 - The range will include at least a 50-yard firearm range and a 25-foot handgun range
 - There must be a minimum of five shooting stations (firing points or benches) at each range and ten per range site (i.e. five at the handgun range and five at the rifle range)
 - Backstops and shot-fall zones may not be in a wetland or over water
 - Backstops must be at least 20 feet in height
 - Parking must be provided at the range
 - The facility will be accessible to people with disabilities
 - Overhead structures to provide shade and protect shooters from rain are optional
3. Range development and renovation plans will be approved by a Range Technical Team Advisor from the National Rifle Association.
4. Range Operations: The range may be operated by a partner, such as a rod and gun club. The range may be open year round, and have established hours.
5. If a partner wants to provide additional facilities, such as an archery range, this will be considered on a case-by-case basis.
6. Some portion of Pittman-Robertson Section 4 funds will be available for range construction and renovation. The amount available will be determined based on priorities in the Hunter Education program, shooting range and hunter recruitment and retention program, available opportunities, and necessary range projects.

Range funding priorities:

Public land range projects will be evaluated considering the following criteria:

1. Range renovation and maintenance projects at existing ranges in shaded counties (Figure 1).
2. Construction of new ranges in shaded counties outside the 100,000 population buffer of present ranges (Figure 1).
3. Renovation projects at other existing ranges.

4. Construction of new ranges where reasonable range access is not available or convenient for public shooting.
5. Demonstration of need, amount of public support, cost, hunter education need, and siting constraints will be considered.
6. More consideration will be given projects to improve an existing range than to develop new ranges in the same locality.
7. Leasing public access at established ranges in shaded counties (Figure 1).

Privately Owned Ranges

The department has a shooting range grant program established in NR 50.17. This program provides cost share funding for qualifying upgrades and maintenance on private ranges in exchange for limited public access. Once popular, use of this program has declined in recent years, but gun clubs and range managers remain interested. Obtaining limited public access through this program or through a lease with existing ranges is often easier than finding a location to build a new range.

The department has range development grants available through this program. The details and criteria are available in the Shooting Range Grant Program documents.