

Trail Management Objectives



TMO: Setting the Standard

Trail Management Objectives (TMOs) are fundamental building blocks for trail management. TMOs tier from and reflect forest plan, travel management and/or trail-specific management direction. TMOs synthesize and document, in one convenient place, the management intention for the trail, and provide basic reference information for subsequent trail planning, management, condition surveys, and reporting.

The documentation of TMOs for each system trail makes good management sense, and is a prerequisite for completing a TRACS Survey.

Why TMOs?

A trail can not be effectively managed or a determination made of what's needed to meet standard until basic questions like these have been answered: What is the purpose of the trail? What type of use is the trail being managed for? What is the intended level of development of the trail? In the past, some trails have been managed based largely on the type or amount of use they were currently getting, without sufficient consideration of the intended use or future trends and needs. This sometimes resulted in managing a trail for a type or level of use that was not compatible with the trail management direction, design, or location. Establishing and communicating the intended TMOs for each system trail is a proactive step that prevents this from occurring.

Developing Effective TMOs

Each TMO should be approved by a line officer after review and recommendation from the unit trail manager. For districts, it is recommended that the forest planning group and trail coordinator review these objectives prior to district ranger approval. This will ensure that the objectives for a trail are consistent with the forest plan, district and forest travel management plans, and anticipated future land management actions. This will also ensure consistency between units so that one trail will not be motorized on one district then switch to pack and saddle stock at the district boundary.

TMOs should be established for every trail, or trail segment when TMO variables change along the trail. Instructions and reference material for developing TMOs are provided on the following pages of this section, in applicable sections of the TRACS User Guide, and on the USFS website for Recreation, Heritage and Wilderness Resources Integrated Business Systems (www.fs.fed.us/3/asures/trails.htm).

TMO Form

Instructions

Establishing and documenting Trail Management Objectives (TMOs) prior to doing a trail condition survey is critical to getting high quality results— results that will benefit trail management efforts for years to come.

The instructions below explain how to complete each field on the TRACS TMO Form. Refer also to the attached TMO Form and TMO Example on the following pages. Additional guidance and TMO reference materials can be found in the TRACS User Guide Appendices, Infra Trails documentation, and on the USFS website for Recreation, Heritage and Wilderness Resources Integrated Business Systems (www.fs.fed.us/3/measure/trails.htm).

Overall Trail Information

Region / Forest / District: Enter the Region number, Forest name (or number), and District name (or number).

Trail Name & Trail Number: Enter the official trail name and trail number. These should correspond exactly to the Trail Name and Trail Number recorded in Infra Trails. Double-check for correct spelling and use of spaces.

Trail Beginning & Ending Termini: Enter a brief narrative description identifying the location of the beginning and ending trail termini. These should correspond exactly with what is recorded in Infra Trails.

Beginning & Ending Mileposts: Enter the beginning milepost or measure point, and the ending milepost for the trail. These should correspond exactly with what is recorded in Infra Trails.

Trail Inventory Length: Enter the length of the trail in miles. This mileage should match what is recorded in Infra Trails. Mileage accuracy recorded on the TMO should correspond to the method of collection (Trail Mileage Source):

- ✓ **Wheel:** If the length was wheeled with a cyclometer, use three decimal places (i.e.3.641).
[Note: 0.001 miles equals approx. 5 feet]
- ✓ **GPS:** If the length was collected by GPS, use two decimal places (i.e. 3.64).
- ✓ **Map or Unknown:** If the actual length is unknown, or was determined by cartographic feature file (CFF) or by vehicle, use no more than one decimal place of accuracy (i.e. 3.6).

Trail Mileage Source: Check the box that corresponds to the source of the mileage above. This is the mileage metadata for reference.

TMO Trail Section

Some trails may have more than one set of objectives. Normally this occurs when a TMO variable changes along distinct segments of the trail, such as between junctions or destinations. Examples can include changes in Trail Class, ROS, Design Parameters, or Prohibited Uses.

If applicable, use the TMO Trail Section block to identify multiple TMOs by trail section. If not applicable, leave this section blank.

Section #: Enter a number or letter to sequentially identify the trail section and corresponding TMO (i.e. Segment #: 1, 2, 3, etc.).

Section Beginning & Ending Termini: Enter a brief narrative description identifying the location of the beginning and ending termini for this trail segment.

Section Beginning & Ending Milepost: Enter the beginning milepost or measure point, and the ending milepost for this trail segment.

Designed Use Objectives

Trail Type: *A fundamental trail category that indicates the predominant trail surface or trail foundation, and the general mode of travel the trail accommodates.*

The Trail Type differentiates between the three basic kinds of trails: Standard/Terra, Snow, or Water. Each Trail Type is stored in the Infra database as a separate record, even when, for example, a Snow Trail mostly or totally overlaps a Standard/Terra Trail.

✓ Assign one Trail Type for the trail.

Trail Class: *The prescribed scale of trail development, representing the intended design and management standards of the trail.*

The National Trail Management Classes are outlined in the National Trails Management Class Matrix, which can be found in Appendix B and posted on the IBS website (www.fs.fed.us/r3/measures/trails.htm).

✓ Assign the most appropriate Trail Class for the trail or trail segment. If more than one Trail Class is assigned to the trail, identify each Trail Class by individual trail segment (see TMO Trail Section above).

ROS/WROS Class: The Recreational Opportunity Spectrum (ROS) class has likely been assigned to the area by the forest plan and helps ensure the transportation system is managed accordingly. ROS and Wilderness ROS (WROS) classes are mutually exclusive.

✓ Locate and refer to the forest ROS and/or Wilderness classification maps.

- ✓ Assign the appropriate ROS/WROS to this segment of the trail. If multiple ROS/WROS classes exist along the trail, consider either segmenting the trail or using the dominant class (see TMO Trail Section above).

Note: Pending finalization of nationally standardized definitions for WROS categories, refer to regional protocols for WROS definitions, with WROS 1 representing the most pristine and WROS 5 representing the most modified end of the WROS spectrum. The WROS 6 category can be used for Other.

Designed Use: *The intended use that controls the desired geometric design of the trail, and determines the subsequent maintenance parameters for the trail.*

The Designed Use must be identified for each trail or trail segment. The Designed Use identifies the single use or limiting factor that drives technical Design Parameters for the trail (i.e. tread width, grade, turning radius, etc.). The Designed Use is necessary to establish the trail's geometric design standards from which the trail is designed, constructed, operated, and maintained. While several Managed Uses may occur on the trail, there is only one Designed Use for any given trail or trail segment.

For an expanded explanation of Designed Use, refer to Trail Fundamentals in Appendix A and posted on the IBS website (www.fs.fed.us/r3/measures/trails.htm).

- ✓ Select only one Designed Use per trail or trail segment

Design Parameters: *Technical specifications for trail construction and maintenance, based on the Designed Use and Trail Class.*

Design Parameters identify the technical specifications that drive trail design, construction, maintenance, and subsequent reconstruction.

For each combination of Designed Use and Trail Class, there is a corresponding set of nationally established Design Parameters. These nationally established Design Parameters, which are included in Appendix C and are also posted on the IBS website, should be used as a basis for determining specific Design Parameters for a trail or trail segment. Additional design criteria are also important, such as back slope angle for example, but are not included in the national Design Parameters as they tend to be very site-specific and require sound engineering judgment to define.

Some of the national Design Parameters are presented as specific values or narrative descriptions, while others are presented as an appropriate range of values. For those values presented as numeric ranges, a trail-specific value that falls within the range should be identified and recorded on the TMO form. For example, on a Hiker/Pedestrian Trail Class 4, the nationally established Design Tread Width is listed as 32 to 96 inches to reflect single-to-multilane trails. The trail-specific Design Tread Width, however, should be recorded as a specific value appropriate for the trail (i.e. 48 inches).

Local deviations to any national Design Parameter may be established based on specific trail conditions, topography and other factors, provided that the variations continue to reflect the general intent of the national Trail Classes.

- ✓ Assign a specific value for each Design Parameter variable listed. This is not intended to be an all-encompassing list of specifications, but a list of only the dominant criteria that most define the geometric shape of the trail.
- ✓ Footnote any trail-specific exceptions to the national Design Parameters in the corresponding Design Parameter field, and explain or justify the exception in the Remarks section of the TMO.
- ✓ Add any additional Design Parameter factors and corresponding values that are deemed important to this specific segment of trail and are necessary for achieving the trail objectives.

Target Frequency: Target Frequency indicates how often a routine task should be completed in order to maintain the trail to standard. Each trail requires a recurring interval for routine maintenance tasks in order to keep the trail functional, stable and useable. For example, brush grows at a certain rate and to keep a trail operational, the brush must be cut at fairly regular intervals. These intervals, which vary by trail and by task, are generally site or area-specific and require local experience to define.

- ✓ For the applicable tasks, define the maintenance interval that best reflects the frequency necessary to keep this trail or trail segment to standard. Any period within that interval should be considered “to standard”.
- ✓ The interval is expressed in years.

Examples:

<u>Task:</u>	<u>Frequency:</u>	<u>Recorded As:</u>
Trail Opening	once every year	1.0
Brushing	once every 3 years	0.33
Logging Out	two times per year	2.0

Travel Management Strategies

Travel Management Strategies are very important for effective and efficient trail management. Establishing Travel Management Strategies for major trail uses helps the manager balance the needs of conflicting uses, guides the manager on operational tradeoff's, and assist maintenance crews to efficiently target maintenance efforts to only necessary tasks. This section of the TMO form documents basic information that should also be recorded in the ATM portion of Infra Trails.

Managed Use: *The modes of travel that are actively managed and appropriate, considering the design and management of the trail.*

Managed Use indicates a management decision or intent to accommodate and/or encourage a specified type of trail use. Accommodating the Managed Use frequently results in user-specific trail maintenance and/or signing needs and costs.

- ✓ Record each use that is actively managed on the trail or trail segment. There may be more than one Managed Use per trail or trail segment.

- ✓ For each Managed Use, document the dates during which that use is actively managed for that use. If there is more than one season of use for a particular Managed Use, record that using the blank space provided under the list of Managed Uses.

Managed Season of Use (To/From): The Managed Season of Use specifically defines the period of the time that the trail is available and managed in a safe and sufficient state for the defined user. It is intended to bracket the times that the Forest is responsible for providing that opportunity.

Examples:

- One obvious example would be when a trail is covered by snow and outside of the Managed Season of Use. During this time, the Forest does not intend to provide an accessible tread as this would require snow removal and is not part of the managed trail opportunity. Conversely, during the Managed Season of Use, the Forest intends to maintain the accessible tread in a safe and functional condition.
- A less obvious example would be if the trail has a Hiker Travel Management Strategy of Encourage with a Managed Season of Use from March 1 to November 15. In this case, the Forest would be responsible for providing stream crossings during high water in June (i.e. trail bridges). Changing the Managed Season of Use for the same example to June 30 to November 15, thus bypassing the June run-off, would alleviate this conflict and clearly define management expectations.

Prohibited Use: *Mode of travel prohibited by official legal order.*

- ✓ Record any use that is prohibited by an official prohibition or closure order.
- ✓ Document the dates during which the use is prohibited.
- ✓ Footnote and cite the specific CFR under Remarks / Reference Information.

Other Use: This section is provided to document additional trail-specific information and Travel Management Strategies as needed.

- ✓ If applicable, record other Travel Management Strategies for the trail that were not captured under Managed Use or Prohibited Use. Check whether the use is Accepted (allowed, while not actively managed for), Discouraged, or Eliminated.

Special Considerations

Use this section to identify any additional considerations that trail managers, design, construction or maintenance personnel should be aware of.

- ✓ Check any applicable special consideration for the trail or trail segment, underlining the appropriate clarifier shown in parenthesis.
- ✓ Footnote the consideration, and provide details and/or reference for corresponding direction or decision documents under Remarks / Reference Information.

Remarks / Reference Information

Use this area to provide additional information or clarification, or to cite reference decisions and materials related to information documented earlier in the TMO. When clarifying information documented in previous sections of the TMO, it is recommended that a footnote be added next to the TMO entry, followed by a footnoted explanation in the Remarks / Reference section.

Example:

Footnoted Items in TMO Sections:

<u>Design Parameters</u>	
Basic Tread Width, inches	24"
<u>Maintenance Frequency</u>	
Trail Opening	1 ²
<u>Special Considerations</u>	
T&E or Sensitive Species Present	X ³

Footnote Explanations in Remarks:

Remarks / Reference Information

¹ Tread width exceptions allowed at existing wood trail structures.

² Complete annual Trail Opening by 6/15.

³ Goose grass sedge, sensitive plant, located in 1st mile of trail, refer to 3/15/1999 BE for Smith Ridge Trail for mitigation specifications.

Line Officer Approval

Having the District Ranger or line officer approve Trail Management Objectives is essential. The TMO pulls together and documents management direction and expectations for the trail. A documented, approved TMO provides the trail manager and the trail maintenance crews with the key tool they need to confidently work on the trail without having to second-guess operational and maintenance choices.

The TMO establishes the base standards against which trail condition surveys and prescriptions are measured and completed. It also ensures a management framework of continuity and consistency over time and through personnel changes. Succinctly put, the TMO pulls it all together.

TMO Form



TRACS Trail Management Objectives

Region: Forest: District:

Trail Name: <input style="width: 95%;" type="text"/>	Trail Number: <input style="width: 80%;" type="text"/>
Trail Beginning Termini: <input style="width: 95%;" type="text"/>	Beg. Milepost: <input style="width: 80%;" type="text"/>
Trail Ending Termini: <input style="width: 95%;" type="text"/>	End. Milepost: <input style="width: 80%;" type="text"/>
Trail Inventory Length: <input style="width: 80%;" type="text"/> Miles	Trail Mileage Source: <input type="checkbox"/> Wheel <input type="checkbox"/> GPS <input type="checkbox"/> Map <input type="checkbox"/> Unknown

TMO Trail Section

<input type="text"/>	Section Beg. Termini: <input style="width: 95%;" type="text"/>	Beg. Milepost: <input style="width: 80%;" type="text"/>
Sec. #	Section End. Termini: <input style="width: 95%;" type="text"/>	End. Milepost: <input style="width: 80%;" type="text"/>

Designed Use Objectives

<p>Trail Type (Check one)</p> <p><input type="checkbox"/> Standard Terra Trail</p> <p><input type="checkbox"/> Snow Trail</p> <p><input type="checkbox"/> Water Trail</p> <p>Trail Class (Check one)</p> <p><input type="checkbox"/> 1 (Primitive/Undeveloped)</p> <p><input type="checkbox"/> 2 (Simple/Minor Development)</p> <p><input type="checkbox"/> 3 (Developed/Improved)</p> <p><input type="checkbox"/> 4 (Highly Developed)</p> <p><input type="checkbox"/> 5 (Fully Developed)</p>	<p>ROS/WROS Class (Check one)</p> <table style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>ROS</p> <p><input type="checkbox"/> Urban</p> <p><input type="checkbox"/> Rural</p> <p><input type="checkbox"/> Roaded Modified</p> <p><input type="checkbox"/> Roaded Natural</p> <p><input type="checkbox"/> Semi-Primitive Motorized</p> <p><input type="checkbox"/> Semi-Primitive NonMotorized</p> <p><input type="checkbox"/> Primitive</p> </td> <td style="width: 50%; vertical-align: top;"> <p>WROS</p> <p><input type="checkbox"/> WROS 1</p> <p><input type="checkbox"/> WROS 2</p> <p><input type="checkbox"/> WROS 3</p> <p><input type="checkbox"/> WROS 4</p> <p><input type="checkbox"/> WROS 5</p> <p><input type="checkbox"/> WROS 6</p> </td> </tr> </table>	<p>ROS</p> <p><input type="checkbox"/> Urban</p> <p><input type="checkbox"/> Rural</p> <p><input type="checkbox"/> Roaded Modified</p> <p><input type="checkbox"/> Roaded Natural</p> <p><input type="checkbox"/> Semi-Primitive Motorized</p> <p><input type="checkbox"/> Semi-Primitive NonMotorized</p> <p><input type="checkbox"/> Primitive</p>	<p>WROS</p> <p><input type="checkbox"/> WROS 1</p> <p><input type="checkbox"/> WROS 2</p> <p><input type="checkbox"/> WROS 3</p> <p><input type="checkbox"/> WROS 4</p> <p><input type="checkbox"/> WROS 5</p> <p><input type="checkbox"/> WROS 6</p>
<p>ROS</p> <p><input type="checkbox"/> Urban</p> <p><input type="checkbox"/> Rural</p> <p><input type="checkbox"/> Roaded Modified</p> <p><input type="checkbox"/> Roaded Natural</p> <p><input type="checkbox"/> Semi-Primitive Motorized</p> <p><input type="checkbox"/> Semi-Primitive NonMotorized</p> <p><input type="checkbox"/> Primitive</p>	<p>WROS</p> <p><input type="checkbox"/> WROS 1</p> <p><input type="checkbox"/> WROS 2</p> <p><input type="checkbox"/> WROS 3</p> <p><input type="checkbox"/> WROS 4</p> <p><input type="checkbox"/> WROS 5</p> <p><input type="checkbox"/> WROS 6</p>		

<p>Designed Use (Check one)</p> <p><input type="checkbox"/> Hiker / Pedestrian</p> <p><input type="checkbox"/> Pack & Saddle</p> <p><input type="checkbox"/> Bicycle</p> <p><input type="checkbox"/> Wheelchair</p> <p><input type="checkbox"/> Motorcycle</p> <p><input type="checkbox"/> All Terrain Vehicle (ATV)</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> Cross-Country Ski</p> <p><input type="checkbox"/> Snowshoe</p> <p><input type="checkbox"/> Dog Sled</p> <p><input type="checkbox"/> Snowmobile</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> Watercraft - NonMotorized</p> <p><input type="checkbox"/> Watercraft - Motorized</p>	<p>Design Parameters (Fill in all that apply)</p> <p><input type="checkbox"/> Tread Width (inches)</p> <p><input type="checkbox"/> Grade: Target Range (%) (> 90% of TMO segment)</p> <p><input type="checkbox"/> Grade: Short Pitch Max (%) (up to 200' length)</p> <p><input type="checkbox"/> Cross-Slope (%)</p> <p><input type="checkbox"/> Clearing Width (feet)</p> <p><input type="checkbox"/> Clearing Height (feet)</p> <p><input type="checkbox"/> Switchback Radius (feet)</p> <p><input type="checkbox"/> _____</p>	<p>Target Frequency Per Year (Fill in all that apply)</p> <p><input type="checkbox"/> Trail Opening</p> <p><input type="checkbox"/> Tread Repair</p> <p><input type="checkbox"/> Drainage Cleanout</p> <p><input type="checkbox"/> Logging Out</p> <p><input type="checkbox"/> Brushing</p> <p><input type="checkbox"/> Snow Trail Grooming</p> <p><input type="checkbox"/> Condition Survey</p> <p><input type="checkbox"/> _____</p>
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TRACS Trail Management Objectives

Trail Name: Trail Number:

Travel Management Strategies FSM 2353.19

Managed Use

(Fill in all that apply)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Prohibited Use

(Check if applicable)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> All Motorized Use		
(Or, fill in all that apply)		
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Other Use

(Optional: Check any that apply)

	Accept	Discourage	Eliminate
<input type="checkbox"/> Hiker / Pedestrian			
<input type="checkbox"/> Pack & Saddle			
<input type="checkbox"/> Bicycle			
<input type="checkbox"/> Wheelchair			
<input type="checkbox"/> Motorcycle*			
<input type="checkbox"/> All Terrain Vehicle (ATV)*			
<input type="checkbox"/> _____			
<input type="checkbox"/> Cross-Country Ski			
<input type="checkbox"/> Snowshoe			
<input type="checkbox"/> Dog Sled			
<input type="checkbox"/> Snowmobile			
<input type="checkbox"/> _____			
<input type="checkbox"/> Watercraft - NonMotorized			
<input type="checkbox"/> Watercraft - Motorized			

Special Considerations

(Check any that apply. Underline appropriate clarifier in parenthesis. Provide specifics and reference information below.)

- Shared System (shared with other system road or trail)
- Accessible per Current Agency Guidelines
- Mechanized Tools or Equipment Prohibited
- T&E or Sensitive Species Present (Plant / Wildlife)
- Heritage Resource Present
- Easement across Non-FS Land (Existing / Needed)
- Existing Permit or Agreement (Trail-Specific / Area)
- _____

Remarks / Reference Information

(Use continuation sheet if needed.)

Line Officer: Name
Title

Signature
Date



TRACS Trail Management Objectives

Trail Name: Trail Number:

Remarks / Reference Information (Continuation Sheet)

(Type notes over this message. To insert spaces between lines of text in Excel, press Alt and Enter.)

TMO Example 1



TRACS Trail Management Objectives

Region: Forest: District:

Trail Name: Trail Number:
 Trail Beginning Termini: Beg. Milepost:
 Trail Ending Termini: End. Milepost:
 Trail Inventory Length: Miles Trail Mileage Source: Wheel GPS Map Unknown

TMO Trail Section

<input type="text"/>	Section Beg. Termini:	<input type="text"/>	Beg. Milepost:	<input type="text"/>
Sec.#	Section End. Termini:	<input type="text"/>	End. Milepost:	<input type="text"/>

Designed Use Objectives

Trail Type (Check one)
 Standard Terra Trail
 Snow Trail
 Water Trail

Trail Class (Check one)
 1 (Primitive/Undeveloped)
 2 (Simple/Minor Development)
 3 (Developed/Improved)
 4 (Highly Developed)
 5 (Fully Developed)

ROS/WROS Class (Check one)

ROS		WROS	
<input type="checkbox"/>	Urban	<input type="checkbox"/>	WROS 1
<input type="checkbox"/>	Rural	<input type="checkbox"/>	WROS 2
<input type="checkbox"/>	Roaded Modified	<input type="checkbox"/>	WROS 3
<input checked="" type="checkbox"/>	Roaded Natural	<input type="checkbox"/>	WROS 4
<input type="checkbox"/>	Semi-Primitive Motorized	<input type="checkbox"/>	WROS 5
<input type="checkbox"/>	Semi-Primitive NonMotorized	<input type="checkbox"/>	WROS 6
<input type="checkbox"/>	Primitive		

Designed Use (Check one)

Hiker / Pedestrian
 Pack & Saddle
 Bicycle
 Wheelchair
 Motorcycle
 All Terrain Vehicle (ATV)

Cross-Country Ski
 Snowshoe
 Dog Sled
 Snowmobile

Watercraft - NonMotorized
 Watercraft - Motorized

Design Parameters (Fill in all that apply)

Tread Width (inches)
 Grade: Target Range (%) (> 90% of TMO segment)
 Grade: Short Pitch Max (%) (up to 200' length)
 Cross-Slope (%)
 Clearing Width (feet)
 Clearing Height (feet)
 Switchback Radius (feet)

Target Frequency Per Year (Fill in all that apply)

Trail Opening
 Tread Repair
 Drainage Cleanout
 Logging Out
 Brushing
 Snow Trail Grooming
 Condition Survey



TRACS Trail Management Objectives

Trail Name: **Sweet Grass Trail**

Trail Number: **122**

Travel Management Strategies FSM 2053.13

Managed Use

(Fill in all that apply)

	From Date (mm/dd)	To Date (mm/dd)
<input checked="" type="checkbox"/> Hiker / Pedestrian	5/1	10/31
<input checked="" type="checkbox"/> Pack & Saddle	5/1	10/31
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft-NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Prohibited Use

(Check if applicable)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> All Motorized Use		
(Or, fill in all that apply)		
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Other Use

(Optional: Check any that apply)

	Accept	Discourage	Eliminate
<input type="checkbox"/> Hiker / Pedestrian	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Pack & Saddle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bicycle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Wheelchair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Motorcycle*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> All Terrain Vehicle (ATV)*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Cross-Country Ski	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Snowshoe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Dog Sled	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Snowmobile	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> _____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Watercraft - NonMotorized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Watercraft - Motorized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Special Considerations

(Check any that apply. Underline appropriate clarifier in parenthesis. Provide specifics and reference information below.)

- Shared System (shared with other system road or trail)
- Accessible per Current Agency Guidelines
- Mechanized Tools or Equipment Prohibited
- T&E or Sensitive Species Present (Plant / Wildlife)
- Heritage Resource Present
- Easement across Non-FS Land (Existing / Needed)
- Existing Permit or Agreement (Trail-Specific / Area)

Remarks / Reference Information

(Use continuation sheet if needed.)

Line Officer: Name **Grant Marnier**

Signature *Grant Marnier*

Title **District Ranger**

Date **1/15/2007**

TMO Example 2



TRACS Trail Management Objectives

Region: Forest: District:

Trail Name: Trail Number:

Trail Beginning Termini: Beg. Milepost:

Trail Ending Termini: End. Milepost:

Trail Inventory Length: Miles Trail Mileage Source: Wheel GPS Map Unknown

TMO Trail Section

Section Beg. Termini: Beg. Milepost:

Sec. # Section End. Termini: End. Milepost:

Designed Use Objectives

<p>(Check one)</p> <p>Trail Type</p> <p><input type="checkbox"/> Standard Terra Trail</p> <p><input checked="" type="checkbox"/> Snow Trail</p> <p><input type="checkbox"/> Water Trail</p> <p>(Check one)</p> <p>Trail Class</p> <p><input type="checkbox"/> 1 (Primitive/Undeveloped)</p> <p><input type="checkbox"/> 2 (Simple/Minor Development)</p> <p><input checked="" type="checkbox"/> 3 (Developed/Improved)</p> <p><input type="checkbox"/> 4 (Highly Developed)</p> <p><input type="checkbox"/> 5 (Fully Developed)</p>	<p>ROSWROS Class (Check one)</p> <table border="1"> <tr> <th>ROS</th> <th>WROS</th> </tr> <tr> <td><input type="checkbox"/> Urban</td> <td><input type="checkbox"/> WROS 1</td> </tr> <tr> <td><input type="checkbox"/> Rural</td> <td><input type="checkbox"/> WROS 2</td> </tr> <tr> <td><input type="checkbox"/> Roaded Modified</td> <td><input type="checkbox"/> WROS 3</td> </tr> <tr> <td><input checked="" type="checkbox"/> Roaded Natural</td> <td><input type="checkbox"/> WROS 4</td> </tr> <tr> <td><input type="checkbox"/> Semi-Primitive Motorized</td> <td><input type="checkbox"/> WROS 5</td> </tr> <tr> <td><input type="checkbox"/> Semi-Primitive NonMotorized</td> <td><input type="checkbox"/> WROS 6</td> </tr> <tr> <td><input type="checkbox"/> Primitive</td> <td></td> </tr> </table>	ROS	WROS	<input type="checkbox"/> Urban	<input type="checkbox"/> WROS 1	<input type="checkbox"/> Rural	<input type="checkbox"/> WROS 2	<input type="checkbox"/> Roaded Modified	<input type="checkbox"/> WROS 3	<input checked="" type="checkbox"/> Roaded Natural	<input type="checkbox"/> WROS 4	<input type="checkbox"/> Semi-Primitive Motorized	<input type="checkbox"/> WROS 5	<input type="checkbox"/> Semi-Primitive NonMotorized	<input type="checkbox"/> WROS 6	<input type="checkbox"/> Primitive	
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<p>Designed Use (Check one)</p> <p><input type="checkbox"/> Hiker / Pedestrian</p> <p><input type="checkbox"/> Pack & Saddle</p> <p><input type="checkbox"/> Bicycle</p> <p><input type="checkbox"/> Wheelchair</p> <p><input type="checkbox"/> Motorcycle</p> <p><input type="checkbox"/> All Terrain Vehicle (ATV)</p> <p><input checked="" type="checkbox"/> Cross-Country Ski</p> <p><input type="checkbox"/> Snowshoe</p> <p><input type="checkbox"/> Dog Sled</p> <p><input type="checkbox"/> Snowmobile</p> <p><input type="checkbox"/> Watercraft - NonMotorized</p> <p><input type="checkbox"/> Watercraft - Motorized</p>	<p>Design Parameters (Fill in all that apply)</p> <p><input type="text" value="72"/> Tread Width (inches)</p> <p><input type="text" value="10"/> Grade: Target Range (%) (> 30% of TMO segment)</p> <p><input type="text" value="15"/> Grade: Short Pitch Max (%) (up to 200' length)</p> <p><input type="text" value="5"/> Cross-Slope (%)</p> <p><input type="text" value="8"/> Clearing Width (feet)</p> <p><input type="text" value="8"/> Clearing Height (feet)</p> <p><input type="text" value="NA"/> Switchback Radius (feet)</p> <p><input type="text"/></p>	<p>Target Frequency Per Year (Fill in all that apply)</p> <p><input type="text" value="1"/> Trail Opening</p> <p><input type="text" value="NA"/> Tread Repair</p> <p><input type="text" value="0.5"/> Drainage Cleanout</p> <p><input type="text" value="0.5"/> Logging Out</p> <p><input type="text" value="0.5"/> Brushing</p> <p><input type="text" value="9"/> Snow Trail Grooming</p> <p><input type="text" value="0.2"/> Condition Survey</p> <p><input type="text"/></p>
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TRACS Trail Management Objectives

Trail Name: **Sweet Grass X-Ski Trail**

Trail Number: **Sno-122**

Travel Management Strategies FSM 2353.13

Managed Use

(Fill in all that apply)¹

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input checked="" type="checkbox"/> Cross-Country Ski	12/1	3/31
<input checked="" type="checkbox"/> Snowshoe	12/1	3/31
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft-NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Prohibited Use

(Check if applicable)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> All Motorized Use		
(Or, fill in all that apply)		
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Other Use

(Optional: Check any that apply)

	Accept	Discourage	Eliminate
<input type="checkbox"/> Hiker / Pedestrian			
<input type="checkbox"/> Pack & Saddle			
<input type="checkbox"/> Bicycle			
<input type="checkbox"/> Wheelchair			
<input type="checkbox"/> Motorcycle*			
<input type="checkbox"/> All Terrain Vehicle (ATV)*			
<input type="checkbox"/> _____			
<input type="checkbox"/> Cross-Country Ski			
<input type="checkbox"/> Snowshoe			
<input type="checkbox"/> Dog Sled			
<input type="checkbox"/> Snowmobile			
<input type="checkbox"/> _____			
<input type="checkbox"/> Watercraft - NonMotorized			
<input type="checkbox"/> Watercraft - Motorized			

Special Considerations

(Check any that apply. Underline appropriate clarifier in parenthesis. Provide specifics and reference information below.)

<input type="checkbox"/> Shared System (shared with other road or trail)
<input type="checkbox"/> Accessible per Current Agency Guidelines
<input type="checkbox"/> Mechanized Tools or Equipment Prohibited
<input type="checkbox"/> T&E or Sensitive Species Present (<u>Plant / Wildlife</u>)
<input type="checkbox"/> Heritage Resource Present
<input type="checkbox"/> Easement across Non-FS Land (<u>Existing / Needed</u>)
<input checked="" type="checkbox"/> Existing Permit or Agreement (<u>Trail-Specific / Area</u>)
<input type="checkbox"/> _____

Remarks / Reference Information

¹Target task frequency for BMP 0.000 - EMP 2.260 applied to Sweet Grass Trail 122 (standard/terra trail)

² Special use permit with Big Timber Cross Country Ski Club to maintain the trail for x-skiing.

Line Officer: Name **Grant Marnier**

Signature *Grant Marnier*

Title **District Ranger**

Date **1/15/2007**



TRACS Trail Management Objectives

Trail Name: **Sweet Grass X-Ski Trail**

Trail Number: **Sno-122**

Travel Management Strategies FSM 2353.13

Managed Use

(Fill in all that apply)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input checked="" type="checkbox"/> Cross-Country Ski	12/1	3/31
<input checked="" type="checkbox"/> Snowshoe	12/1	3/31
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Prohibited Use

(Check if applicable)

All Motorized Use From Date: 1/1 To Date: 12/31 ¹

(Or, fill in all that apply)

	From Date (mm/dd)	To Date (mm/dd)
<input type="checkbox"/> Hiker / Pedestrian		
<input type="checkbox"/> Pack & Saddle		
<input type="checkbox"/> Bicycle		
<input type="checkbox"/> Wheelchair		
<input type="checkbox"/> Motorcycle		
<input type="checkbox"/> All Terrain Vehicle (ATV)		
<input type="checkbox"/> _____		
<input type="checkbox"/> Cross-Country Ski		
<input type="checkbox"/> Snowshoe		
<input type="checkbox"/> Dog Sled		
<input type="checkbox"/> Snowmobile		
<input type="checkbox"/> _____		
<input type="checkbox"/> Watercraft - NonMotorized		
<input type="checkbox"/> Watercraft - Motorized		

Other Use

(Optional: Check any that apply)

	Accept	Discourage	Eliminate
<input type="checkbox"/> Hiker / Pedestrian			
<input type="checkbox"/> Pack & Saddle			
<input type="checkbox"/> Bicycle			
<input type="checkbox"/> Wheelchair			
<input type="checkbox"/> Motorcycle*			
<input type="checkbox"/> All Terrain Vehicle (ATV)*			
<input type="checkbox"/> _____			
<input type="checkbox"/> Cross-Country Ski			
<input type="checkbox"/> Snowshoe			
<input type="checkbox"/> Dog Sled			
<input type="checkbox"/> Snowmobile			
<input type="checkbox"/> _____			
<input type="checkbox"/> Watercraft - NonMotorized			
<input type="checkbox"/> Watercraft - Motorized			

Special Considerations

(Check any that apply. Underline appropriate clarifier in parenthesis. Provide specifics and reference information below.)

- Shared System (shared with other road or trail)
- Accessible per Current Agency Guidelines
- Mechanized Tools or Equipment Prohibited ²
- T&E or Sensitive Species Present (Plant/ Wildlife)
- Heritage Resource Present
- Easement across Non-FS Land (Existing/ Needed)
- Existing Permit or Agreement (Trail-Specific/ Area) ³
- _____

Remarks / Reference Information

- ¹ Motorized use prohibited year-round (CFR..)
- ² Primitive tools only.
- ³ Special use permit with Big Timber Cross Country Ski Club to maintain the trail for x-skiing.

Line Officer: Name **Grant Marnier**
 Title **District Ranger**

Signature *Grant Marnier*
 Date **1/15/2007**