

MONARCH BUTTERFLY HABITAT EXCHANGE

MANAGEMENT PLAN FORM

The purpose of this management plan is to provide the Participant with guidance for successfully carrying out the Project through its term and to inform Participant compensation amounts and schedules. The management plan establishes objectives, priorities, activities and associated costs to restore/enhance, monitor, maintain and report on monarch butterfly habitat on the Project Area.

For the purposes of the cost-share payment, this management plan is a binding instrument, as described in Section 3a of the *Stewardship Agreement*. For the purposes of the outcomes-based “bonus” payment, the management plan serves as guidelines to maximize the success of the habitat project, thus maximizing the potential “bonus” payment. The Exchange does not guarantee that following this management plan will lead to successful habitat outcomes and thus does not claim liability for the bonus payment if habitat outcomes are not achieved.

This management plan is an attachment to the *Stewardship Agreement*. The signatures of both Parties on the *Stewardship Agreement* indicate mutual agreement to the contents of this management plan.

1. ATTACHMENTS TO THIS MANAGEMENT PLAN

List any attachments to this management plan here. If submitting electronically, include file names.

ATTACHMENT	DESCRIPTION, PAGE NUMBER, OR FILE NAME
Property Location Map at County Scale	
HQT Basemap	
Management Plan Pro Forma Summary	
Early Season Baseline Assessment – HQT Excel Calculator	
Early Season Baseline Assessment – HQT Verification Report	
Late Season Baseline Assessment – HQT Excel Calculator	
Late Season Baseline Assessment – HQT Verification Report	
Outcomes Assessment – HQT Excel Calculator	<i>Not available at this time</i>
Outcomes Assessment – HQT Verification Report	<i>Not available at this time</i>

2. PROJECT OVERVIEW

Project Name:	Project ID: YYYY-MM-##
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Exchange Region:	County & State:
Ecoregion:	Project Area Size (acres):

2.1 PARTICIPATING PROPERTY DESCRIPTION

This section describes the geographic setting, current uses, and other important background information for the Participating Property.

Setting & Location	Describe the geographic setting of the Participating Property, including geographical or political boundaries. Provide file name and specific page numbers of attachment containing relevant maps, and include in the List of Attachments.
Current & Anticipated Land Uses	Describe the current and anticipated uses of the Participating Property, especially those that could affect monarch and pollinator habitat conditions on the Participating Property during the term of the project.
Current Management Practices	Describe current management practices on the Participating Property, including participation in federal, state and local programs.
Adjacent Land Uses	Describe current and anticipated land uses adjacent to the Participating Property, especially any that may affect monarch butterfly and pollinator populations on or near the project.
Project Area	Please describe the location of the Project Area in terms of the Participating Property. If the Project Area differs from the rest of the Participating Property in any meaningful sense, especially any that may affect monarch butterfly and pollinator populations on or near the project, please describe here.

2.2 PROJECT DESCRIPTION

This section provides a high-level summary of the Project in terms of goals and objectives for project outcomes.

Project Goal(s)	<p>Describe the goal of the Project in terms of expected habitat quality outcomes.</p> <p>The goal of this enhancement project is to improve monarch butterfly habitat from x quality to y quality on the property over 5 years, and to maintain y quality habitat for z years following completion of the project. This goal is the primary performance measure to which the outcomes-based payment is tied.</p>
Project Objectives	<p>Name the specific objectives of the Project for improving and managing monarch butterfly habitat. These activities will be further detailed in Section 3.</p> <p>The primary objective is to enhance site capacity by #% through the following activities:</p> <ol style="list-style-type: none"> 1.

2.3 FUNCTIONAL ACRES EXPECTATIONS

This section documents the baseline functional acres on the Project Area as well as anticipated functional acres upon project completion, as determined by HQT Assessments and agreed to by the Administrator. Actual functional acres achieved will be compared against these goals in the Outcomes Assessment. Further details regarding the baseline assessment can be found attached to this management plan in the List of Attachments (Section 1).

HABITAT QUALITY SUMMARY			
Habitat Quality Attribute	Baseline Conditions	Expected Post-Project Conditions	Expected Post-Project Uplift
Site Capacity (%)			
Lack of Threats (%)			
Conservation Priority (%)			
Overall Habitat Quality Score (%)			
Functional Acres (f-acres)			
Year of Baseline Assessment(s)			
Season and Year of Achieving Expected Conditions			

3. PROJECT ACTIVITIES

The purpose of this section is to describe the restoration, enhancement, management, monitoring, and reporting activities necessary to ensure that expected habitat quality outcomes are achieved and sustained.

3.1 RESTORATION AND ENHANCEMENT ACTIVITIES

This section describes expected restoration, management, monitoring and reporting activities to take place on the Project Area. If necessary, please include a more detailed accounting of restoration and/or enhancement activities as an attachment to this Management Plan, noted in the List of Attachments (Section 1).

Restoration/Enhancement Activities Summary Description	Provide a summary description of the planned restoration and/or enhancement actions for the Project Area.
Management Activities Summary Description	Provide a summary description of the management actions planned for the Project Area once restoration and/ or enhancement activities have taken place.
Monitoring & Reporting Activities Summary Description	Provide a summary description of the monitoring and reporting activities planned for the Project Area.

3.4 SUMMARY OF PROJECT COSTS

In the table below, provide the total estimated costs for materials and supplies, restoration and enhancement activities, ongoing management, and monitoring and reporting as calculated using the Management Plan Pro Forma Worksheet. Please include the Management Plan Pro Forma Summary worksheet as an attachment to this Management Plan, noted in the List of Attachments (Section 1).

ESTIMATED MATERIALS & SUPPLIES COST (\$)	ESTIMATED RESTORATION/ ENHANCEMENT COST (\$)	ESTIMATED MANAGEMENT COST (\$)	ESTIMATED MONITORING & REPORTING COST (\$)	ESTIMATED TOTAL COST (\$)
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\$	\$	\$	\$	\$
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3.5 BIOLOGICAL MONITORING (OPTIONAL)

Biological monitoring means observing, recording and assessing the biological response of the target species and habitats as a result of project activities and other influencing factors. It is an essential tool for verifying assumptions that underlie the Exchange’s Habitat Quantification Tool, but is optional for participants. If participating, use the space below to specify activities, timing, restrictions, and notification requirements.

<p>Summary of Biological Monitoring Activities</p>	Describe the biological monitoring that the Administrator will be conducting, as well constraints and limitations with respect to the type of biological monitoring that is allowed (if participating). Include expected dates that biological monitoring will be conducted.
<p>Notification Requirements for Access to Participating Property</p>	Specify the individual and entities that must be notified prior to accessing the Participating Property for biological monitoring purposes, and how much time the notice must be provided in advance of the site visit (if participating).

4. TERMS & CONDITIONS

This section contains terms and conditions of this management plan. Any alterations of the language below should be discussed with the Exchange Administrator.

<p>Participant’s Responsibilities</p>	<p>Describe the Participant’s specific responsibilities under the management plan.</p> <p>The Participant will adhere to the management plan described above for this project and avoid any uses of the Participating Property that are incompatible with monarch habitat, as described in the section below. The Participant will permit access to the Participating Property for assessment of habitat using the HQT at all defined intervals:</p>
<p>Prohibited Activities</p>	<p>The activities listed below are prohibited on habitat enrolled in the Exchange.</p> <ul style="list-style-type: none"> • Management and/or maintenance activities such as mowing, haying, burning, or grazing must be conducted outside of the season when monarch larvae or adults are present. To determine the appropriate management window for the Participating Property’s region, refer to Monarch Joint Venture’s Mowing Best Practices for Monarchs document (accessible via https://monarchjointventure.org/images/uploads/documents/MowingForMonarchs.pdf). • Herbicide use in and adjacent to monarch habitat should be avoided or closely controlled; however, herbicides are allowed during site preparation (prior to planting) when it is necessary to eliminate competing weeds from a planting area in order for desirable plants to establish. Spot application of herbicides and the use of Integrated Pest Management plans can allow for control of invasive species while limiting impacts to monarchs. • Application of insecticides within the project area. <p>List any exceptions related to the prohibited activities above, in addition to clarifying conditions such as the appropriate management window for the Participating Property’s region.</p> <p>Management and/or maintenance activities may take place before March 1 and after November 1. If necessary, management may take place between June 30 and August 10.</p>
<p>Activity Prioritization</p>	<p>Due to unforeseen circumstances, prioritization of restoration or enhancement activities may be necessary if insufficient funding is available to accomplish all activities. The Participant and the Exchange Administrator shall discuss task priorities and funding availability to determine which tasks will be implemented. In general, activities are prioritized in this order: 1) required by a local, state, or federal agency; 2) activities necessary to maintain or remediate habitat quality; and 3) activities that monitor biological resources (if participating), particularly if past monitoring has not shown downward trends.</p>

	<p>Equipment and materials necessary to implement priority tasks will also be considered priorities. Final determination of task priorities in any given year of insufficient funding will be determined in consultation with the Exchange Administrator and as authorized by the Exchange Administrator in writing.</p>
<p>Adaptive Management</p>	<p>The management and monitoring activities set forth in this management plan are intended to ensure the success of the credit project. They are not intended to limit the Participant's ability to incorporate new knowledge and use the most effective conservation measures available. The Participant will evaluate the effectiveness of management actions to achieve management objectives over time. If management actions specified herein do not achieve intended results, or if new conservation measures are recommended, the Participant may modify any post-project activities discussed in this management plan.</p>
<p>Remedial Action & Amendments</p>	<p>This management plan may be amended or modified only with the written approval of the Participant and Exchange Administrator. Amendment or modification of this management plan may be required to better meet management objectives and preserve the habitat and conservation of the Project Area, or to remediate the project in the case of failure in project implementation.</p>
