



FS Agreement No. 24-IA-11015600-005

INTERAGENCY AGREEMENT
Between The
USDOI, NATIONAL PARK SERVICE,
INTERMOUNTAIN REGION
AND THE
USDOI, U.S. FISH AND WILDLIFE SERVICE,
MOUNTAIN-PRAIRIE REGION
AND THE
USDOI, BUREAU OF LAND MANAGEMENT,
BLM WYOMING STATE OFFICE
BLM MONTANA STATE OFFICE
BLM IDAHO STATE OFFICE
And The
USDA, FOREST SERVICE
NORTHERN, ROCKY MOUNTAIN AND INTERMOUNTAIN REGIONS

This INTERAGENCY AGREEMENT is hereby made and entered into by and between The National Park Service, Intermountain Region; U.S. Fish and Wildlife Service, Mountain-Prairie Region; Bureau of Land Management, Idaho, Montana and Wyoming State Offices, hereinafter referred to as “the Cooperators,” and the USDA, Forest Service, Northern, Rocky Mountain and Intermountain Regions hereinafter referred to as the “U.S. Forest Service,” under the authority of: P.L. 113-76 Service First Authority, Section 430 of the Consolidated Appropriations Act of 2014.

- U.S. Forest Service Agreement #24-IA-11015600-005 replacing: #17-IA-11015600-020
- National Park Service Agreement #
- U.S. Fish and Wildlife Service Agreement #
- BLM Wyoming Agreement #
- BLM Montana Agreement #
- BLM Idaho Agreement #

Non-funding Obligating Agreement: Nothing in this Interagency Agreement shall commit the parties to obligate or transfer any funds. Specific work projects or activities that involve the transfer of funds, services, or property will require execution of separate agreements or contracts and be contingent upon the availability of appropriated funds. Such activities must be independently authorized by appropriate statutory authority. This is a binding agreement to exchange resources and deliverables, coordinate and collaborate in mutually beneficial federal activities, and authorize the identified federal activities to occur under congressional authority.

Background: The five-needle pines in the Greater Yellowstone Area (GYA), whitebark pine (*Pinus albicaulis*) and limber pine (*Pinus flexilis*), are important components of forested ecosystems providing a wide range of ecosystem services. Whitebark pine is a keystone species of high elevation ecosystems in



the GYA. It defines ecosystem structure, function, and process by providing snow capture and retention and carbon storage, increasing biodiversity, and serving as a food source for wildlife. Throughout its range, whitebark pine is currently at significant risk from the combined effects of insects, the introduced disease white pine blister rust, climate change and altered fire regimes. For these reasons, the US Fish and Wildlife Service listed whitebark pine as *Threatened* under the Endangered Species Act in December 2022.

In order to protect healthy whitebark pine and restore whitebark pine in areas with extensive overstory mortality, appropriate management actions must be coordinated, consistent, efficient, and science based. The Greater Yellowstone Coordinating Committee's Whitebark Pine Subcommittee has worked successfully across boundaries to develop its *Whitebark Pine Strategy for the Greater Yellowstone Area* (2011) with its associated *Adaptive Action Plan – Whitebark Pine in the Greater Yellowstone Area* (2015) to promote the persistence of whitebark pine over time and space in the GYA. The parties to this agreement affirm their commitment to work together to protect and restore whitebark pine in the GYA.

The Greater Yellowstone Grand Teton (GYGT) seed zone encompasses portions of three Forest Service Regions (Northern, Intermountain, and Rocky Mountain) and includes the Custer Gallatin, Beaverhead-Deerlodge, Shoshone, Caribou-Targhee, and Bridger-Teton National Forests; Yellowstone and Grand Teton National Parks; the National Elk and Red Rock Lakes National Wildlife Refuges, and lands managed by the Bureau of Land Management in Idaho, Montana, and Wyoming. Coordinated activities may include, but are not limited to, individual tree or area protection, silvicultural treatments, cone collection, planting, monitoring, and research. Seed may be shared among units within this seed zone. A seed orchard for planting white pine blister rust resistant trees has been established on the Custer Gallatin National Forest for the GYGT whitebark pine seed zone. The seed orchard will provide a consistent cone crop for planting efforts in the GYA.

The National Park Service, through its Greater Yellowstone Inventory and Monitoring Network (GRYN), leads a GYA monitoring program for whitebark pine health with an emphasis on white pine blister rust infection. Begun in 2004, continued monitoring is integral to understand the health of whitebark pine and help assess the effectiveness of management actions. Reports and papers summarizing findings are available on the GRYN website at <https://www.nps.gov/im/gryn/whitebark-pine.htm>

The National Park Service, the U.S. Fish and Wildlife Service, the Bureau of Land Management, and the U.S. Forest Service have previously affirmed their relationship in the GYA as members of the Greater Yellowstone Coordinating Committee (GYCC) through interagency cooperation, and through a history of coordinated working relationships.

Title: Narrative Interagency Agreement for Greater Yellowstone Area Whitebark Pine Management

I. PURPOSE:

The purpose of this agreement is to document the cooperation between the parties to inventory, monitor and manage whitebark pine and limber pine in the GYA, with a principal focus on protecting and restoring whitebark pine; managing the Greater Yellowstone Grand Teton



Whitebark Pine Seed Zone Seed Orchard (seed orchard); and continuing Whitebark Pine Health and Whitebark Pine Blister Rust monitoring, in a cooperative and coordinated manner to the extent permissible by law and agency missions in accordance with the following provisions and the hereby incorporated Operating and Financial Plan, attached as Exhibit A. The Operating and Financial Plan may be amended as needed.

In consideration of the above premises, the parties hereto agree as follows:

II. THE COOPERATORS SHALL:

- A. Perform in accordance with the Financial and Operating Plan, Exhibit A.
- B. Subject to funding and resource availability, contribute resources and support for whitebark pine protection and restoration, including operation and maintenance of the seed orchard and associated genetics test performance sites, and whitebark pine monitoring.
- C. Work cooperatively to promote inventory, monitoring, and management of whitebark pine and limber pine in the GYA through sharing of information and resources.

III. THE U.S. FOREST SERVICE SHALL:

- A. Perform in accordance with the Financial and Operating Plan, Exhibit A.
- B. Subject to funding and resource availability, contribute resources and support for whitebark pine protection and restoration, including operation and maintenance of the seed orchard and associated genetics test performance site, and whitebark pine monitoring.
- C. Work cooperatively to promote inventory, monitoring, and management of whitebark pine and limber pine in the GYA through sharing of information and resources.

IV. IT IS MUTUALLY AGREED AND UNDERSTOOD BY AND BETWEEN THE PARTIES THAT:

- A. The Parties desire to cooperate in the inventory, monitoring, research, and management of whitebark pine and limber pine, with a principal focus on whitebark pine. Specifically, all Parties desire to cooperate fully in matters relating to operation of the seed orchard and associated genetics test performance site, allocation of the seed; and continued whitebark health monitoring.

The Parties agree:

1. Seed collected from trees within the GYGT seed zone may be used by any other land management unit within the GYGT seed zone for whitebark pine restoration.
2. The seed orchard provides rust resistant whitebark pine seed for the GYA.



3. A portion of the seed collected from trees and from the orchard is available to all Parties based on planting needs. The GYCC subcommittee has developed a methodology to equitably distribute seed based on seed availability and the needs of the Parties utilizing unit seed inventories and prioritized allocation. Excess seed can be made available to other entities.
 4. Annually, to contribute to the seed orchard and test plantation operation and maintenance as described in Exhibit A.
 5. Support the establishment of additional test plantation sites.
 6. The Custer Gallatin National Forest will update the seed orchard operating plan periodically; manage day-to-day operations; and provide a part-time orchard manager who coordinates with appropriate Forest Service, Regional-level and/or Research staff.
 7. The GRYN continues responsibility for whitebark pine health monitoring, with assistance from the Parties.
- B. PRINCIPAL CONTACTS. Individuals listed below are authorized to act in their respective areas for matters related to this agreement.

Principal Cooperator(s) Contacts:

Chip Jenkins, Superintendent
Grand Teton National Park and John D.
Rockefeller, Jr. Memorial Parkway
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Cam Sholly, Superintendent
Yellowstone National Park
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Tami Blackford, Executive Coordinator
Greater Yellowstone Coordinating Committee
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Red Rock Lakes NWR
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Bighorn Basin WY District Manager
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Mary D'Aversa, Idaho Falls ID District
Manager
Bureau of Land Management
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Principal U.S. Forest Service Program Contacts:

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Bridger-Teton National Forest
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Kathy Minor, Acting Forest Supervisor
Custer Gallatin National Forest
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Ken Coffin, Forest Supervisor
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Melvin Bolling, Forest Supervisor
Caribou-Targhee National Forest
1405 Hollipark Drive
Idaho Falls, ID 83401



Ph: 208-557-5761
Cell: 208-541-2969
Email: melvin.bolling@usda.gov

Principal U.S. Forest Service Agreement Contacts:

Lisa Portune

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Timothy Wagoner

Grants Management Specialist
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Stephanie Harrison

Grants Management Specialist Trainee
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- C. **NOTICES.** Any communications affecting the operations covered by this agreement given by the U.S. Forest Service or the Cooperators are sufficient only if in writing and delivered in person, mailed, or transmitted electronically by e-mail or fax, as follows:

To the U.S. Forest Service Program Manager, at the address specified in the agreement.

To the Cooperators, at the Cooperators' addresses shown in the agreement or such other address designated within the agreement.

Notices will be effective when delivered in accordance with this provision, or on the effective date of the notice, whichever is later.

- D. **COMPLIANCE.** The Cooperators and U.S. Forest Service agree that they are individually responsible for compliance with all laws and regulations that apply to any activities arising from this agreement. Nothing in this agreement is meant to constitute a new agency action.
- E. **USE OF U.S. FOREST SERVICE INSIGNIA.** In order for the Cooperators to use the U.S. Forest Service insignia on any published media, such as a Web page, printed publication, or audiovisual production, permission must be granted from the U.S. Forest Service's Office of



Communications. A written request must be submitted, and approval granted in writing by the Office of Communications prior to use of the insignia.

- F. BUILDING AND COMPUTER ACCESS BY NON-FOREST SERVICE PERSONNEL. The Cooperators may be granted access to Forest Service facilities and/or computer systems to accomplish work described in the Operating Plan or Statement of Work. All non-Government employees with unescorted access to Forest Service facilities and computer systems shall have background checks following the procedures established by USDA Directives 3800 series. Those granted computer access must fulfill all Forest Service requirements for mandatory security awareness and role-based advance security training and sign all applicable Forest Service statements of responsibilities.
- G. USE OF GOVERNMENT OWNED VEHICLE. Forest Service vehicles may be used for official Forest Service business only in accordance with FSH 7109.19, chapter 60, the requirements established by the region in which performance of this agreement takes place, and the terms of this agreement.
- H. U.S. FOREST SERVICE ACKNOWLEDGED IN PUBLICATION, AUDIOVISUALS AND ELECTRONIC MEDIA. The Cooperators shall acknowledge U.S. Forest Service support in any publications, audiovisuals, and electronic media developed as a result of this agreement.
- I. NONDISCRIMINATION STATEMENT – PRINTED, ELECTRONIC, OR AUDIOVISUAL MATERIAL. The Cooperators shall include the following statement, in full, in any printed, audiovisual material, or electronic media for public distribution developed or printed with any Federal funding.

In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability. (Not all prohibited bases apply to all programs.)

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

If the material is too small to permit the full statement to be included, the material must, at minimum, include the following statement, in print size no smaller than the text:

"This institution is an equal opportunity provider."

- J. TERMINATION. Any of the parties, in writing, may terminate this agreement in whole, or in part, at any time before the date of expiration.
- K. ALTERNATE DISPUTE RESOLUTION – INTERAGENCY. The parties to this agreement shall settle any disputes that may arise under this agreement by following direction in the Treasury Financial Manual, Volume 1, Bulletin 2011-04, Section VII ("Resolving Intragovernmental Disputes and Major Differences").



- L. COPYRIGHTING. The Cooperators is/are granted sole and exclusive right to copyright any publications developed as a result of this agreement. This includes the right to publish and vend throughout the world in any language and in all media and forms, in whole or in part, for the full term of copyright and all renewals thereof in accordance with this agreement. However, the Cooperators shall not sell or grant copyrights to a 3rd party designee who intends to sell the document as a profit-making venture.

No original text or graphics produced and submitted by the Forest Service shall be copyrighted. The Forest Service reserves a royalty-free, nonexclusive, and irrevocable right to reproduce, publish, or otherwise use, and to authorize others to use the work for federal government purposes. This right must be transferred to any sub-agreements or subcontracts.

This provision includes:

1. The copyright in any work developed by the Cooperators under this agreement.
2. Any right of copyright to which the Cooperators purchase(s) ownership with any federal contributions.

- M. MODIFICATIONS. Modifications within the scope of this agreement must be made by mutual consent of the parties, by the issuance of a written modification signed and dated by all properly authorized, signatory officials, prior to any changes being performed. Requests for modification should be made, in writing, at least 30 days prior to implementation of the requested change. The Cooperators is not obligated to fund any changes not properly approved in advance.

- N. COMMENCEMENT/EXPIRATION DATE. This agreement is executed as of the date of the last signature and is effective through **December 15, 2028** at which time it will expire, unless extended by an executed modification, signed, and dated by all properly authorized, signatory officials.

- O. AUTHORIZED REPRESENTATIVES. By signature below, each party certifies that the individuals listed in this document as representatives of the individual parties are authorized to act in their respective areas for matters related to this agreement. In witness whereof, the parties hereto have executed this agreement as of the last date written below.

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the last date below:

USDOJ, NATIONAL PARK SERVICE, INTERMOUNTAIN REGION

By: **KATHARINE HAMMOND** Digitally signed by
KATHARINE HAMMOND
Date: 2024.02.08
13:44:13 -07'00'

KATHARINE HAMMOND, Regional Director
USDOJ, National Park Service, Regions 6, 7, and 8 (Intermountain)

Date: _____

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the last date below:

**USDOJ, U.S. FISH AND WILDLIFE SERVICE,
MOUNTAIN-PRAIRIE REGION**

By: **MATTHEW HOGAN**  Digitally signed by
MATTHEW HOGAN
Date: 2024.02.09
14:31:49 -07'00'

MATTHEW HOGAN, Regional Director
USDOJ, U.S. Fish & Wildlife Service, Mountain-Prairie Region

Date: _____

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the last date below:

**USDOl, BUREAU OF LAND MANAGEMENT,
BLM WYOMING STATE OFFICE**

By: **ANDREW ARCHULETA** _____
Digitally signed by ANDREW ARCHULETA
Date: 2024.01.23 11:34:18 -07'00'

ANDREW ARCHULETA, Wyoming State Director
USDOl, Bureau of Land Management, Wyoming State Office

Date: _____

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the last date below:

**USDOJ, BUREAU OF LAND MANAGEMENT,
BLM MONTANA STATE OFFICE**

By: **SONYA GERMANN** Digitally signed by
SONYA GERMANN
Date: 2024.02.16
12:58:52 -07'00'

SONYA GERMANN, Montana-Dakotas State Director
USDOJ, Bureau of Land Management, Montana State Office

Date: _____

IN WITNESS THEREOF, the parties hereto have executed this agreement as of the last date below:

**USDOJ, BUREAU OF LAND MANAGEMENT,
BLM IDAHO STATE OFFICE**

JUNE
By: SHOEMAKER  Digitally signed by JUNE
SHOEMAKER
Date: 2024.02.14 11:43:21 -07'00'

KAREN KELLEHER, Idaho State Director
USDOJ, Bureau of Land Management, Idaho State Office

Date: _____



LEANNE M. MARTEN, Regional Forester
U.S. Forest Service, Northern Region

Date

MARY FARNSWORTH, Regional Forester
U.S. Forest Service, Intermountain Region


Date

FRANK BEUM, Regional Forester
U.S. Forest Service, Rocky Mountain Region

Date

The authority and format of this agreement have been reviewed and approved for signature.

**BRANDI
SCHEFFELMAIER**

 Digitally signed by BRANDI
SCHEFFELMAIER
Date: 2023.12.20 07:20:43 -08'00'

BRANDI SCHEFFELMAIER
U.S. Forest Service Grants Management Specialist

Date



Burden Statement

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0596-0217. The time required to complete this information collection is estimated to average 4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call toll free (866) 632-9992 (voice). TDD users can contact USDA through local relay or the Federal relay at (800) 877-8339 (TDD) or (866) 377-8642 (relay voice). USDA is an equal opportunity provider and employer.

Exhibit A

Greater Yellowstone Area Whitebark Pine

Interagency Operating and Financial Plan for FY2023 through FY2028

Background

Whitebark pine (*Pinus albicaulis*) is a keystone species of high elevation ecosystems in the Greater Yellowstone Area (GYA). Throughout its range, whitebark pine is currently at significant risk from the combined effects of insects, the introduced disease white pine blister rust, climate change, and successional replacement, which led to the US Fish and Wildlife Service listing it as *Threatened* under the Endangered Species Act in December 2022.

The Greater Yellowstone Coordinating Committee (GYCC) approved the *Whitebark Pine Strategy for the Greater Yellowstone Area* in 2011 and its subsequent three-year rolling *Adaptive Action Plan* in 2015. Its purpose is to facilitate a multi-faceted, multi-agency approach to maintain a functioning whitebark pine ecosystem. The agency administrators committed to implement the Strategy, subject to funding and resource availability, leverage funds and resources together, and support our staffs' coordinated implementation of the Whitebark Pine Strategy.

The National Park Service, U.S. Fish and Wildlife Service, Bureau of Land Management and U.S. Forest Service (the Parties) affirmed their commitment to cooperatively protect and restore whitebark pine in the GYA through an Interagency Agreement/Memorandum of Understanding.

Coordinated activities may include but are not limited to, individual tree or area protection, silvicultural treatments, planting, research, and/or monitoring. A seed orchard for planting white pine blister rust resistant trees was established in the fall of 2012 on the Custer Gallatin NF for the Greater Yellowstone Grand Teton (GYGT) whitebark pine seed zone. This orchard is managed and maintained by Custer Gallatin NF personnel. The GYGT seed zone encompasses portions of the lands managed by the Parties to this agreement. The seed orchard would provide a consistent seed crop for planting efforts in the GYA. As the orchard matures and produces larger cone crops, it will become the main source of whitebark pine seeds for the Greater Yellowstone Ecosystem that are rust resistant. The timeframe for a consistent cone crop is dependent upon many variables and can be difficult to determine.

In addition to the seed orchard, multiple genetic performance test plantations and a clone bank will be included as part of a WBP genetic improvement program for the GYGT seed zone hosted on the Custer Gallatin NF. The genetic performance test plantations are from white pine blister rust screenings from cycles 1 and 4. The cycle 1 test plantation was established in 2014 and the cycle 4 test plantation was completed in 2018.

The National Park Service, through its Greater Yellowstone Inventory and Monitoring Network (GRYN), leads a GYA-wide (all Parties included) monitoring program for whitebark pine health with an emphasis on white pine blister rust infection. Begun in 2004, continued monitoring across the GYA is integral to understand the health of whitebark pine and help assess the effectiveness of management actions. Annual reports starting in 2004, trend reports, special reports, and manuscripts are available [products](#) from this monitoring.

Purpose

The purpose of this document is to outline the plan of operation, subject to resource availability, of the seed orchard, clone bank, and genetic test performance sites managed by the Custer Gallatin NF and to continue whitebark pine monitoring performed through the GRYN. The term of this document covers fiscal years 2023 - 2028. Actual funding available will be determined each year. Funds may either be transferred through interagency agreements (between USDI and USDA) or through the use of overrides and shorthand codes (when funds are moved within USDI or USDA agencies). The Parties may identify further areas of coordination in this time period.

By signing this plan, each GYA manager demonstrates their support of the Narrative Interagency Agreement/Memorandum of Understanding for Greater Yellowstone Area Whitebark Pine Management (U.S. Forest Service Agreement #24-IA-11015600-005).

Plan of Operations

The Parties agree to the following plan to support the seed orchard, clone bank, genetic test performance sites, and continued whitebark pine monitoring, subject to funding and resource availability.

Seed Orchard

1. The seed orchard provides rust resistant whitebark pine seed for the GYA. A portion of the seed is available to all units based on planting needs. The GYCC whitebark pine subcommittee developed a methodology to equitably distribute seed based on seed availability and the needs of the Parties using individual party and party consolidated seed procurement plans. Excess seed can be made available to other entities (such as but not limited to research, restoration activities on other agencies, etc.).
2. The Parties shall annually review the costs to manage the seed orchard, clone bank, and genetic test performance sites and revise the proposed budget accordingly (Table 1). When seed is available, the Parties will annually determine allocation of the seed.
3. The Custer Gallatin NF prepared a seed orchard operating plan in 2013 and will update this plan periodically. The Custer Gallatin NF agrees to continue to manage day-to-day operations and provide an orchard manager who coordinates with appropriate Forest Service Regional-level and/or Research staff. Maintenance and operation activity workloads continue to increase as the planted trees grow and additional test plantations are installed and managed.
4. The Custer Gallatin, Beaverhead-Deerlodge, Shoshone, Bridger-Teton, and Caribou-Targhee National Forests all agree to fund installation, operation and maintenance of the seed orchard, clone bank, and genetic test performance sites. Each of the five Forests will request the needed funds through the Forest Service Genetic Improvement Program or equivalent, and either transfer funds or make them available to the Custer Gallatin NF. Annual costs could vary, and the Forests will divide the annual costs evenly among the five Forests. Each Forest makes the following estimated commitments, which are subject to funding availability each year:

Table 1: Proposed Annual Budget - GYGST Seed Orchard and Genetics Test Performance Site Operation						
Year	Total Amount	Beaverhead-Deerlodge NF	Custer Gallatin NF	Bridger-Teton NF	Caribou-Targhee NF	Shoshone NF
2023	\$10,700	\$2,140	\$2,140	\$2,140	\$2,140	\$2,140
2024	\$13,500	\$2,700	\$2,700	\$2,700	\$2,700	\$2,700
2025	\$10,200	\$2,040	\$2,040	\$2,040	\$2,040	\$2,040
2026	\$9,200	\$1,840	\$1,840	\$1,840	\$1,840	\$1,840
2027	\$13,600	\$2,720	\$2,720	\$2,720	\$2,720	\$2,720

Note: The Custer Gallatin National Forest covers the personnel costs of the seed orchard manager: ~\$55,000 annually.

Costs Break Down by Activity and Year

Year	2023	2024	2025	2026	2027
SO ¹ - Foliar Analysis	\$200	\$200	\$200	\$200	\$200
SO ¹ - Irrigation	\$300	\$300	\$300	\$300	\$300
SO ¹ - Planting of Grafts	\$900	\$900	\$900	\$900	\$900
SO ¹ - Specialized Fertilizer	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
SO ¹ - Fence Maintenance			\$3,500		
C4 ³ - Quick Checks	\$300	\$300	\$300	\$300	\$300
C4 ³ - Measurements		\$6,900			\$6,900
C1 ² - Quick Checks	\$300	\$300	\$300	\$300	\$300
C1 ² - Measurements	\$4,100				
CB ⁵ - Foliar Analysis	\$200	\$200	\$200	\$200	\$200
CB ⁵ - Irrigation	\$300	\$300	\$300	\$300	\$300
CB ⁵ - Planting of Grafts	\$1,600	\$1,600	\$1,700	\$1,700	\$1,700
CB ⁵ - Fence Maintenance				\$2,500	
Totals	\$10,700	\$13,500	\$10,200	\$9,200	\$13,600
Forest Share	\$2,140	\$2,700	\$2,040	\$1,840	\$2,720

1 = Seed Orchard, 2 = Cycle 1 Test Plantation, 3 = Cycle 4 Test Plantation, 4 = Cycle 6 Test Plantation, 5 = Clone Bank

Monitoring Whitebark Pine Health Program

1. The GYRN is responsible for leading the whitebark pine health and white pine blister rust monitoring program with assistance from all Parties in this IA.
2. The Parties will annually review the monitoring program, and between 2023 and 2026 the GRYN shall lead a review of the monitoring program.
3. The National Park Service typically provides the funds needed to implement the monitoring program on NPS and USFS lands. The BLM currently provides funding to support monitoring on WYBLM by the GRYN. The GRYN and GYCC Whitebark Pine Subcommittee shall seek funding to augment the NPS funding of this monitoring program (see table 2), as needed.
4. The GYCC agrees that the GYCC project funds (USFS, NPS, USFWS, and BLM) may be used if needed for continued whitebark pine health monitoring up to \$15,000 per year between 2023 and 2028, subject to annual appropriations.
5. The Parties agree to continue or to expand monitoring of whitebark pine and limber pine to BLM and USFWS lands, subject to additional funding contributed by the BLM and USFWS as needed.
6. The GRYN oversees and manages a comprehensive system for collecting, reviewing, holding, and distributing whitebark pine data acquired for the objectives of the Interagency Whitebark Pine Monitoring Protocol for the Greater Yellowstone Ecosystem (Greater Yellowstone Whitebark Pine Monitoring Working Group. 2011.). Data represent ground-based surveys starting in 2004 at permanent long-term monitoring transects in USFS and NPS areas in the GYE and starting in 2013 for adjacent BLM areas. This system also holds survey data from Yellowstone National Park's Whitebark Pine Core Area and BLM five needle pine rapid assessment surveys initiated in 2021 and 2013, respectively. Data system stewards include GRYN's vegetation ecologist, program manager, and data manager.

GRYN Interagency Whitebark Pine Monitoring			
Estimated Budget Needs (Years 2023-2028) for the fifth visit to all panels			
Year	Description	Amount	Notes
2023	Visit Panel 4 - Lead Field Ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies. Over 40 transects visited across the ecosystem.	\$ 90,000	Products: 3rd trend report, annual report from 2022, completion of 2023 fieldwork and data processing. Response to USFWS T&E listing. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs of monitoring on BLM Lands. Data Management of NPS/USFS/BLM data.
2024	Initiate 5 th Panel Rotation Visit Panel 1 - Lead Field Ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies. Over 40 transects visited across the ecosystem.	\$ 90,000	Products: 2023 annual report, completion of 2024 fieldwork and data processing. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs to monitoring on BLM Lands. Initiate 4 th Trend Report. Data Management of NPS/USFS/BLM data.
2025	Visit Panel 2 - Lead Field Ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies. Over 40 transects visited across the ecosystem.	\$ 100,000	Products: 2024 annual report, completion of 2025 fieldwork and data processing. Exploration of data analysis across multiple whitebark pine monitoring programs. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs to monitoring on BLM Lands. Continue trend report. Data Management of NPS/USFS/BLM data.
2026	Visit Panel 3 - Lead Field Ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies. Over 40 transects visited across the ecosystem.	\$ 100,000	Products: Trend Analysis Report/Publication, 2025 annual report, completion of 2026 fieldwork and data processing. Exploration of data analysis across multiple whitebark pine monitoring programs. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs to monitoring on BLM Lands. Data Management of NPS/USFS/BLM data.
2027	Visit Panel 4 - Lead Field Ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies. Over 40 transects visited across the ecosystem.	\$ 100,000	Products: 2026 annual report, completion of 2027 fieldwork and data processing. Exploration of data analysis across multiple whitebark pine monitoring programs. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs to monitoring on BLM Lands. Data Management of NPS/USFS/BLM data.

GRYN Interagency Whitebark Pine Monitoring			
Estimated Budget Needs (Years 2023-2028) for the fifth visit to all panels			
Year	Description	Amount	Notes
2028	Visit Panel 3 - Lead Field ecologist/supervisor (crew leader); 2 crew; per diem; vehicle; supplies.	\$ 90,000	Products: 2027 annual report, completion of 2028 fieldwork and data processing. Exploration of data analysis across multiple whitebark pine monitoring programs. Participation on WBP Subcommittee and research efforts in ecosystem. BLM covers costs to monitoring on BLM Lands. Need to seek out shared funding with USFS.
The network will continue to reassess the costs of implementing the monitoring and making adjustments to the budget as needed to complete the work efficiently, safely, and implement cost savings as needed.			