

The Whitebark Pine Ecosystem Foundation 2013 Annual Science Meeting
Co-Sponsored by the Northern Rockies Fire Science Network

Challenges of whitebark pine restoration: issues and solutions

Start	End		
September 19, 2013 (USFS RMRS Bozeman Lab conference room MSU campus)			
10:00	18:00	Whitebark Pine Ecosystem Foundation Board of Directors Meeting	
September 20, 2013 (Strand Union Building, SUB Ballroom B)			
8:00	8:10	Welcome – Dave McWethy, Diana Tomback	
8:10	8:30	Paleoecology of whitebark pine and wildland fire – Cathy Whitlock MSU	
8:30	8:50	Challenges, Issues, and solutions for wilderness whitebark pine restoration -- Dan Reinhart, National Park Service	
8:50	9:10	An incidental Holocene history of whitebark pine and grizzly bears– Dave Mattson	
9:10	9:30	Genetic concerns for restoration – Mary Frances Mahalovich, US Forest Service	
9:30	10:00	Break	
10:00	12:00	Restoration and Management (Jenkins) SUB Ballroom D	Research and Development (Cathy Cripps) SUB Breakout room 233
		10:00-10:20 <i>David Gonzales TreeFight--</i> The realities of citizen science in the forest and on the ground	<i>Brytten Steed USFS Forest Health Protection Missoula MT-</i> Insect pests of whitebark and limber pine
		10:20-10:40 <i>Karl Buermeyer Bridger Teton National Forest-</i> Planning and Implementing Whitebark Pine Protection and Restoration Efforts in the Greater Yellowstone Ecosystem	<i>Signe Leirfallom USFS RMRS Fire Lab Missoula, MT--</i> Seed source impacts on whitebark pine regeneration dynamics
		10:40-11:00 <i>Cara Nelson Univ Montana, Missoula, MT-</i> CFLRP whitebark pine restoration monitoring	<i>Blakey Lockman USFS Forest Health and Protection, Missoula MT-</i> HigDb: An Online Database for High Elevation White Pines; the New WLIS
		11:00-11:20 <i>Anton Brennick Beaverhead Deerlodge NF-</i> Barker Lake tree thinning project	<i>Phil Farnes and Stewart-</i> Relating Climatic Data to Whitebark Pine Cone Production in the Custer National Forest, MT
		11:20-11:40 <i>Melissa Jenkins Flathead National Forest Kalispell, MT--</i> Whitebark Pine Restoration on the Flathead National Forest	<i>Lonergan, Cathy Cripps and Smith-</i> Effect of terra-torching, microsite, and inoculation with native ectomycorrhizal fungi on early survival of whitebark pine seedlings planted in Waterton Lakes National Park
		11:40-12:00 <i>Michael Murray BC Forest Service Nelson BC-</i> Whitebark pine conservation in the Canadian Kootenays	<i>Charlie Cartwright Cowichan Lake Research Station Mesachie Lake BC-</i> Whitebark pine screening for blister rust resistance
12:00	13:00	Lunch (Get lunch on your own)	
13:00	15:00	Restoration and Management (Liz Davy) SUB Ballroom D	Research and Development (Smith) SUB Breakout room 233
		13:00-13:20 <i>Erin Shanahan--</i> Monitoring trends in health and status of whitebark pine in the Greater Yellowstone Ecosystem (GYE): A trend report from 2004-2011.	<i>Cyndi Smith, David Langor, Brenda Shepherd, Waterton Lakes National Park, Waterton, AB Canada.--</i> Change in blister rust infection in whitebark and limber pine in Canada over time
		13:20-13:40 <i>Jane Smith USFS RMRS Fire Lab Missoula, MT.</i> Five needle pines in fire education	<i>Diana Tomback et al, Univ. Colorado, Denver CO.-</i> Whitebark pine as a tree island initiator: understanding its role in facilitation
13:40-14:00	<i>Glenda Scott USFS Northern Region Missoula, MT.</i> Planting whitebark pine in the northern	<i>John Schwandt USFS Forest Health and Protection Coeur d'Alene ID-</i> Does natural whitebark pine regeneration	

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		region: successes, guidelines, and recommendations	stand a chance? Results of monitoring blister rust and competing vegetation in five northern Idaho sites from 1995 to 2012
		14:00-14:20 <i>Ian Houseman, Redcastle Resources—</i> Whitebark pine map of the Flathead	<i>Clay DeMastus, Univ Idaho</i> -Regenerating Whitebark Pine through Direct Seeding in the Northern Rockies
		14:20-14:40 <i>Linda Vance, Melissa Hart, Univ Montana—</i> Mapping whitebark pine mortality and regeneration in southwest Montana forests	<i>Wally Macfarlane and Jesse Logan</i> -Field-based documentation of whitebark pine decline in the Beartooth and Absoroka Mountain ranges
		14:40-15:00 <i>Steve Shelly USFS Northern Region Missoula MT</i> -Framework for project design and effects analysis for the restoration of whitebark pine as a sensitive species	<i>Regan Nelson et al., Montana State University, Bozeman, MT.</i> Informing implementation the GYA WBP Strategy based forecasting WBP response to future climate
		15:00-15:20 <i>Andrew Hansen, Tony Chang, Nate Piekielek, Montana State University, Bozeman, MT</i> – Whitebark pine distribution model projections under future possible climates in the GYA.	<i>Elizabeth Pansing, A. Wagner, and D. Tomback Univ Colorado Denver CO</i> -Role of microsite type, cache pilferage and elevation in whitebark pine regeneration in the northern Rocky Mountains: Implications for restoration and climate change
15:20	15:40	Break	
15:40	17:00	Meeting Challenges with Solutions: an interactive panel Moderator: Bob Keane Diana Tomback, Randy Moody, Linda Merigliano, Barry Bollenbacher SUB Ballroom B	
17:00	18:30	Break	
18:30	20:30	Public Session: Saving the whitebark pine Silent Auction (Laura DeNitto): Bid on foundation merchandise, books, arts, crafts, nostalgia Hosted social (Liz Davy and Helen Smith): Celebrate with cake and ice cream Presentation at 7:15 (Tomback, Davy, Westerhold): Whitebark pine in peril: what can be done? SUB Ballroom B	
September 21, 2013 (Meet in MSU SUB parking lot)			
8:00	5:00	Field trip to Fairy Lake (Kirk and Beth Horn)	
September 22, 2013 (Meet in MSU SUB parking lot)			
		Optional Field Trip to Beartooth Highway (If we get more than 6 people to sign up)	