

Secretaries Sign Memorandum of Understanding

Western Watershed Enhancement Partnership - restoring forest and watershed health

U.S. Department of Agriculture Secretary Vilsack and U.S. Department of the Interior Secretary Sally Jewell announced last week a federal, local and private partnership that will reduce the risks of wildfire to America's water supply in western states. The Western Watershed Enhancement Partnership is part of President Obama's Climate Action Plan, which outlines a comprehensive approach to reduce carbon pollution and better prepare the United States for the impacts of climate change, including increased risk of wildfires and drought.

Through the Western Watershed Enhancement Partnership, the U.S. Department of Agriculture (USDA) and the U.S. Department of the Interior (Interior) will work together with local water users to identify and mitigate risks of wildfire to parts of our nation's water supply, irrigation and hydroelectric facilities. Flows of sediment, debris and ash into streams and rivers after wildfires can damage water quality and often require millions of dollars to repair damage to habitat, reservoirs and facilities.

USDA's Forest Service and Interior's Bureau of Reclamation will kick off the new partnership through a pilot in the Upper Colorado Headwaters and Big Thompson watershed in Northern Colorado. The partnership will include the Northern Colorado Water Conservancy District and Colorado State Forest Service and builds off past agreements between the Forest Service and municipal water suppliers, such as Denver Water's Forest to Faucets partnership.

"Today's announcement brings together the West's largest forest land manager with the West's largest water provider to ensure the resilience of our forests and their capacity to provide water supply amid climate threats," said Vilsack. "This partnership will increase forest resilience, improve water quality, and reduce the risk of catastrophic damage from wildfire. This is good news for anyone who pays a water bill, and it is good news for our environment."

"In the West, more than 40 Reclamation dams and facilities are on or downstream from Forest Service lands where drier, hotter weather has exacerbated the risk of wildfire," said Jewell. "This partnership can serve as a model for the West when it comes to collaborative and targeted fire threat reduction and restoration efforts to protect our critical water supplies."

The Memorandum of Understanding signed last week at Horsetooth Reservoir outside of Ft. Collins, Colo., will facilitate activities such as wildfire risk reduction through forest thinning, prescribed fire and other forest health treatments; minimizing post-wildfire erosion and sedimentation; and restoring areas that are currently recovering from past wildfires through tree planting and other habitat improvements.

Horsetooth Reservoir is part of the Colorado Big-Thompson water system which provides water to 860,000 people within eight counties (Boulder, Broomfield, Larimer, Logan, Morgan, Sedgwick, Washington and Weld) and to more than 650,000 acres of agricultural land. It also generates enough electricity to power 58,300 homes annually. The area has experienced several fires in the last few years, including the destructive High Park Fire in June 2012.



Department of Interior Secretary Sally Jewell and Department of Agriculture Secretary Tom Vilsack sign the Western Watersheds Enhancement Partnership, which sets the framework for creating partnerships between federal, state, local and private entities to reduce the risk of wildfire to watersheds.

The signing ceremony took place at Horsetooth Reservoir in Fort Collins, Colo., highlighting the success of a similar pilot project called the Colorado-Big Thompson Headwaters Partnership.

Standing with the Secretaries (from left) are Colorado Secretary of Agriculture John Salazar, and representatives of the C-BT Headwaters Partnership, including Western Area Power Administration administrator Mark Gabriel, Northern Colorado Water Conservancy District General Manager Erik Wilkinson, Roseann Gonzales-Schreiner representing the Bureau of Reclamation, Colorado State Forester Mike Lester and Regional Forester Dan Jirón of the U.S. Forest Service's Rocky Mountain Region.

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USDA and Interior are working with state and local stakeholders toward formalizing additional partnerships in the following areas:

- Salt River-CC Cragin project in Arizona;
- Boise River Reservoir in Idaho;
- Mid-Pacific Reclamation Region in California;
- Yakima Basin in Washington State; and
- Horsethief Reservoir/Flathead River in Montana

Nationwide, the National Forest System provides drinking water to more than 60 million Americans. The share of water supply originating on national forest lands is particularly high across much of the West, including the upper Colorado River basin where nearly half of all water comes from National Forests. Healthy forests filter rain and snowmelt, regulate runoff and slow soil erosion – delivering clean water at a far lower cost than it would take to build infrastructure to replace these services.

The goal of the Western Watershed Enhancement Partnership is to restore forest and watershed health and proactively plan for post-wildfire response actions intended to protect municipal and agricultural water supplies, infrastructures and facilities, water delivery capabilities and hydroelectric power generation. Forest and watershed restoration activities and proactive planning can help minimize sedimentation impacts on reservoirs and other water and hydroelectric infrastructure by reducing soil erosion and the impacts of wildfires, helping water managers avoid costs for dredging, water filtration, and the need to replace damaged infrastructure.

Although comprehensive data on wildfire costs for water users is unavailable, several wildfires in recent decades illustrate the diversity and magnitude of direct costs:

- The 1997 Buffalo Creek and 2002 Hayman Fires forced Denver Water to spend more than \$26 million on dredging Strontia Springs Reservoir, treating water and reseeding the forests in the watershed;
- The 2000 Cerro Grande Fire cost the Los Alamos Water Utility more than \$9 million and generated about \$72.4 million in emergency rehabilitation, restoration and flood mitigation cost;
- The 2009 station fire and ensuing storms in 2010 cost the Los Angeles County Department of Public Works \$30 million in the aftermath to remove sediment from debris basins. LA County Public Works plans to spend an additional \$190 million dredging four reservoirs that are no longer able to reliably meet the county's needs for flood control and water storage capacity; and
- The 2011 Las Conchas Fire prompted the cities of Santa Fe and Albuquerque to shut down their water supply intake systems in affected rivers and reservoirs due to ash accumulation.



From writing talking points and scouting out the perfect ceremony site to putting up flags and parking cars, U.S. Forest Service employees played an integral role in helping plan and execute the Western Watershed Enhancement Partnership signing event with Secretary of Interior Sally Jewell and Secretary of Agriculture Tom Vilsack at Horsetooth Reservoir in Fort Collins, Colo. on July 19. Enjoying a moment with the secretaries following the event are employees from the Arapaho and Roosevelt National Forests (ARP) and Rocky Mountain Regional Office (R2).

From left, are: Tammy Williams, ARP public affairs; Erich Roeber, ARP landscape architect; K. Reid Armstrong, ARP public affairs; Regional Forester Dan Jirón; Secretary Jewell; Secretary Vilsack; Sarah Paski, Canyon Lakes RD visitor information; Rick Cooksey, regional director of state and private forestry; Nicole Branton, archeologist; Bernard Taylor, public affairs intern; Hal Gibbs, eco-systems group leader; and Forest Supervisor Glenn Casamassa.

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Colorado: Arapaho Roosevelt NF & Pawnee NG | Grand Mesa, Uncompahgre, & Gunnison NFs
Pike-San Isabel National Forests and Cimarron-Comanche NGs | Rio Grande NF | San Juan NF | White River NF
Nebraska: Nebraska & Samuel R. McKelvie NFs • **South Dakota:** Black Hills NF
Wyoming: Bighorn NF • Medicine Bow-Routt NFs & Thunder Basin NG • Shoshone NF