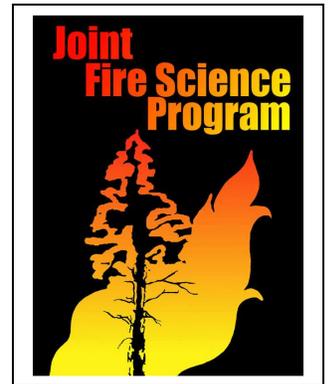

A Synthesis of Post-Fire Road Treatments for BAER Teams: Methods, Treatment Effectiveness, and Decision-Making Tools for Rehabilitation



Appendix B: List of Grey Literature from BAER Interviews

Final Report to the Joint Fire Sciences Program

JFSP Project # 06-3-4-03

Randy B. Foltz, Research Engineer
Peter R. Robichaud, Research Engineer
Hakjun Rhee, Post-doctoral Associate

October 31, 2008



Appendix B—List of Grey Literature from BAER Interviews

Region 1

Nick Gerhardt

- Gerhardt, Nick. 2005. [Personal notes]. September 2. China 10—Flow calculations using USGS regression method.
- Gerhardt, Nick. 2006. [Unpublished report]. June 26. NRCS post-fire stormflow model, step-by-step.
- Gerhardt, Nick. 2006. [Unpublished report]. December 18. Characterization of a post-fire debris flow and flood, Blackerby Fire, Idaho.
- Parrett, Charles; Johnson, D. R. 2004. Methods for estimating flood frequency in Montana based on data through water year 1998. Water-Resources Investigations Report 03-4308. Denver, CO: U.S. Geological Survey. 101 p.

Richard Jones

- Cahoon, Joel. (2005, August 11—last update). *Circular Culvert Design Spreadsheet* [Online]. Available: http://www.wti.montana.edu/Documents/Reports/PDF/CMP_Hydraulics.xls [2008, July 8].
- Cerrelli, G. A. 2005. FIRE HYDRO, a simplified method for predicting peak discharges to assist in the design of flood protection measures for western wildfires. In: Moglen, Glenn E., eds. Proceedings: 2005 watershed management conference—managing watersheds for human and natural impacts: engineering, ecological, and economic challenges; 2005 July 19–22; Williamsburg, VA. Alexandria, VA: American Society of Civil Engineers: 935–941.
- Jones, Richard. 1996. [Personal notes]. January 1. The CLWFLOOD program predicts flood frequencies using eight procedures (revised).
- Jones, Richard. 2000. September 11. BAER report, Crooked Fire, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 15 p.
- Jones, Richard; Mital, James. 2003. September 26. Burned area report, Beaver Lakes Complex, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 11 p.
- Jones, Richard; Mital, James. 2003. September 26. BAER report, Hopeful 2 Fire, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 10 p.
- Jones, Richard; Mital, James. 2003. September 26. BAER report, Bear's Oil, Wendover, Pleasant, and Rhodes Fires, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 12 p.
- Mital, James. 2000. October 16. BAER report, Snow Creek Fire, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 12 p.
- Mital, James. 2000. October 16. BAER report, Elizabeth Fire, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 10 p.

- Mital, James. 2001. September 17. BAER report, Walton Fire, Clearwater National Forest, Idaho. Orofino, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Clearwater National Forest. 11 p.
- Snook, Ed; Jones, Richards; [and others]. 2006. September 13. Burned area report, Gash Creek Incident Fire, Bitterroot National Forest, Montana. Hamilton, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Bitterroot National Forest. 13 p.

Rick Patten.

- Patten, Rick. 2006. October 31. Burned area report, Ulm Peak Fire, Idaho Panhandle National Forests, Idaho. Coeur d'Alene, ID: U.S. Department of Agriculture, Forest Service, Northern Region, Idaho Panhandle National Forests. 27 p.

Dean Sirucek.

- Gardner, Beth; Boelman, Shawn. 2004. [Unpublished report]. February 17. Crazy Horse BAER—modifications on item C. of the original BAER specs—install corrugated metal pipe. 29 p.
- Interagency Burned Area Emergency Response Team. 2003. August 29. Interagency Burned Area Emergency Stabilization and Rehabilitation Plan, Robert and Trapper Creek Fires, Water Resource Assessment. Hungry Horse and West Glacier, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Flathead National Forest, and National Park Service, Glacier National Park. 20 p.
- Sirucek, Dean; Olson, Dennis; Butterfly, Henry; Johnson, Steve. 2006. Interagency burned area emergency stabilization & rehabilitation plan, Red Eagle Fire, watershed resource assessment, hydrology and soils. 24 p.

Mark Story.

- Cahoon, Joel. (2005, August 11—last update). *Circular Culvert Design Spreadsheet* [Online]. Available:
http://www.wti.montana.edu/Documents/Reports/PDF/CMP_Hydraulics.xls
[2008, July 8].
- Story, Mark; Johnson, Steve; Stuart, Bo; Hickenbottom, Jennifer; Thatcher, Ron; Swartz, Scott. 2006. September. BAER specialist report, hydrology and roads, Derby Fire. Bozeman, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Gallatin National Forest. 17 p.
- Story, Mark. 2003. [E-mail circulation]. September. Stormflow methods.

Bo Stuart.

- Story, Mark; Johnson, Steve; Stuart, Bo; Hickenbottom, Jennifer; Thatcher, Ron; Swartz, Scott. 2006. September. BAER specialist report, hydrology and roads, Derby Fire. Bozeman, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Gallatin National Forest. 17 p.
- Stuart, Bo. 2000. September 26. Maudlow Fire, Burned Area Emergency Rehabilitation (BAER) plan. Helena, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Helena National Forest.

Stuart, Bo. 2003. September 22. Snow-Talon Fire Burned Area Emergency Rehabilitation (BAER) Plan. Helena, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Helena National Forest. 57 p.

Region2

Greg Bevenger.

Johnson, Steve; Gould, Jessica. 2003. Burned area emergency stabilization and rehab plan, Blackfoot Complex Fires, Flathead NF, watershed resource assessment. Libby, MT: U.S. Department of Agriculture, Forest Service, Northern Region, Kootenai National Forest. 10 p.

Solt, Adam; Muir, Mark. 2006. July 8. Warm Fire—hydrology and watershed report. Richfield, UT: U.S. Department of Agriculture, Forest Service, Intermountain Region, Fishlake National Forest. 9 p.

Souders, Charles. 2006. July 8. Warm Fire burned area, Kaibab NF, Burned Area Emergency Response assessment, soil resource conditions. Silver City, NM: U.S. Department of Agriculture, Forest Service, Southwest Region, Gila National Forest. 9 p.

Region 3

Robert Lefevre.

Eychaner, James H. 1984. Estimation of magnitude and frequency of floods in Pima County, Arizona, with comparisons of alternative methods. Water-Resources Investigations Report 84-4142. Denver, CO: U.S. Geological Survey. 69 p.

Furniss, Michael J. (2002—last update). *The six-D system for effective waterbars* [Online]. Available: <http://www.fs.fed.us/r5/baer/six-d.html> [2008, July 13].

Lefevre, Robert. [Personal note]. Greg's Curve Number thoughts.

Lefevre, Robert; [and others]. 2002. June 18. BAER report, Bullock Fire, Coronado National Forest, Arizona. Tucson, AZ: U.S. Department of Agriculture, Forest Service, Southwestern Region, Coronado National Forest. 14 p.

Pearthree, Philip A.; Youberg, Ann. 2006. Recent debris flows and floods in southern Arizona. *Arizona Geology* 36 (3). 6 p.

Roeske, R. N. 1978. Methods for estimating the magnitude and frequency of floods in Arizona. Arizona Department of Transportation report: ADOT-RS-15(121) final report. Phoenix, AZ: U.S. Department of Transportation, Federal Highway Administration. 82 p.

Solomon, Rhey; Maxwell, Jim; Shaw, Doug; Schmidt, Larry. 1981. June 18. Watershed condition hydrology overview. Hydrology Notes. Albuquerque, NM: U.S. Department of Agriculture, Forest Service, Southwestern Region.

Wildland Fire Lessons Learned Center. 2006. Burned Area Emergency Response (BAER) Lessons Learned. *Scratchline*, Issue 15. 6 p.

U.S. Forest Service Coronado National Forest. 2003. Aspen Fire, Coronado National Forest, BAER hydrology report. Tucson, AZ: U.S. Department of Agriculture, Forest Service, Southwestern Region, Coronado National Forest: 24–30.

Greg Kuyumajian.

- Gallaher, Bruce M.; Koch, Richard J. 2004. September. Cerro Grande Fire impacts to water quality and stream flow near Los Alamos National Laboratory: results of four years of monitoring. LA-14177. Springfield, VA: U.S. Department of Commerce, National Technical Information Service. 195 p.
- Johnson, Ada Suzanne. 2003. Aspen Fire 2003 treatment success monitoring report. Tucson, AZ: U.S. Department of Agriculture, Forest Service, Southwest Region, Coronado National Forest. 21 p.
- Kuyumajian, Greg. 2007. [Personal note]. April 24. BAER design storms, FY 2000–2003, southwestern region, USDA Forest Service.

Grant Loomis.

- Baldys, Stanley III; Hjalmarson, H. W. 1994. Effects of controlled burning of chaparral on streamflow and sediment characteristics, East Fork Sycamore Creek, central Arizona. Water-Resources Investigations Report 93-4102. Denver, CO: U.S. Geological Survey. 33 p.
- Reed, William B.; Schaffner, Mike. 2007. Effects of wildfire in the mountainous terrain of southeast Arizona: an empirical formula to estimate 5-year peak discharge from small post-burn watersheds. NOAA Technical Memorandum NWS WR-279. Springfield, VA: U.S. Department of Commerce, National Technical Information Service. 22 p.
- Reneau, Steven L.; Kuyumajian, Gregory A.. 2004. December. Rainfall-runoff relations in Pueblo Canyon, New Mexico, after the Cerro Grande Fire. Los Alamos National Laboratory Report LA-UR-04-8810. Los Alamos, NM: Los Alamos National Laboratory. 32 p.
- Schaffner, Mike; Reed, William B. 2005. (2005—last update). *Effects of wildfire in the mountainous terrain of southeast Arizona: post-burn hydrologic response of nine watersheds* [Homepage of 2005 Technical Attachments 05-01], [Online]. Available: <http://www.wrh.noaa.gov/wrh/TA05.php> [2008, July 25].
- White, William D. 1994. Geomorphic response of six headwater basins fifteen years after the La Mesa Fire, Bandelier National Monument. In: Allen, Craig D, ed. Fire effects in southwestern forests: proceedings of the second La Mesa Fire symposium; 1994 March 29–31; Los Alamos, NM. Proc. RM-GTR-286. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 95–113.

Region 4

Mike Dixon.

- Dixon, Mike. 2008. [Personal note]. March 17. 100 year flood flow culvert analysis.

Terry Hardy and John Thorton.

- Schmidt, Larry J. 1987. Calculated risk: a tool for improving design decisions. In: 18th International Erosion Control Association Conference; 1987 February 26–27; Reno, NV. Proc. Steamboat Springs, CO: International Erosion Control Association: 279–283. Stream Notes; 1998 October. Fort Collins, CO: U.S.

Department of Agriculture, Forest Service, Rocky Mountain Research Station. 5 p.
BAER—Burned Area Emergency Response burn severity field data sheet.

Region 5

Mike Bradshaw

Frazier, Jim; [and others]. 2005. March 31. BAER report, Cedar Fire, Cleveland National Forest, California. San Diego, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Region, Cleveland National Forest. 12 p.

Alex Janicki

Janicki, Alex; [and others]. 2003. July 8. BAER report, Woodlot Fire, Stanislaus National Forest, California. Sonora, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Region, Stanislaus National Forest. 12 p.

Carolyn Napper.

Napper, Carolyn. 2006. June 15. BAER report, Arrastre Fire, San Bernardino National Forest, California. San Bernardino, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Region, San Bernardino National Forest. 8 p.

Stamer, Marc; [and others]. 2006. January 31. BAER report, Plunge Fire, San Bernardino National Forest, California. San Bernardino, CA: U.S. Department of Agriculture, Forest Service, Pacific Southwest Region, San Bernardino National Forest. 11 p.

Gregory Napper.

Napper, Gregory S. 1999. [Unpublished BAER course material]. May 3–7. Burned Area Emergency Rehabilitation techniques course.

Mike Parenti.

Parenti, M.; [and others]. 2002. [Unpublished hydrology report]. June 11. Hydrologist Report, Arrowhead Fire, San Bernardino National Forest.

Parenti, M.; [and others]. 2003. [Unpublished guideline]. May 1. Modified Rational GIS flow model users guide 1.0.

Parenti, M.; [and others]. 2003. [Unpublished guideline]. May 1. Revised Universal Soil Loss Equation GIS model users guide 1.0.