

BOF TRA#2 Low Flow and Water Drafting References

The following papers are posted on this ftp

site: <ftp://frapftp.fire.ca.gov/outgoing/transfer/BOF%20TRA%232%20Low%20Flow%20papers/>

Austin, S.A. 1999. Streamflow response to forest management: a meta-analysis using published data and flow duration curves. Master of Science thesis. Colorado State University, Fort Collin, CO. 121 p.

Brown, A.E., L. Zhang, T. McMahon, A.W. Western, and R.A. Vertessy. 2005. A review of paired catchment studies for determining changes in water yield resulting from alterations in vegetation. *Journal of Hydrology* 310: 28-61.

Cafferata, P.H. and L.M. Reid. 2013. Applications of long-term watershed research to forest management in California: 50 years of learning from the Caspar Creek experimental watersheds. California Forestry Report No. 5. California Department of Forestry and Fire Protection. Sacramento, CA. 110 p.

Chamberlin, T.W., R.D. Harr, and F.H. Everest. 1991. Chapter 6. Timber harvesting, silviculture, and watershed processes. Pp. 181-205 in: Meehan, W.R. (Ed.). *Influences of Forest and Rangeland Management on Salmonid Fishes and Their Habitat*. American Fisheries Society Special Publication 19. 751 p.

Deitch, M.J., G.M. Kondolf, and A.M. Merenlender. 2007. Hydrologic impacts of small-scale instream diversions for frost and heat protection in the California wine country. *River. Res. Applic.* 23: 1–17.

Harr, R.D., R.L. Fredriksen, and J. Rothacher. 1979. Changes in streamflow following timber harvest in southwest Oregon. USDA For. Serv. Res. Paper PNW-249. Portland, OR. 22 p.

Hubbart, J.A., T.E. Link, J.A. Gravelle, and W.J. Elliot. 2007. Timber harvest impacts on water yield in the continental/maritime hydroclimatic region of the United States. *Forest Science* 53(2): 169-180.

Keppeler, E.T. 1986. The effects of selective logging on low flows and water yield in a coastal stream in northern California. M.S. thesis, Humboldt State University. Arcata, CA. 137 p.

Keppeler, E.T. 1998. The summer flow and water yield response to timber harvest. Pp. 35-43 in: Ziemer, R.R. (Technical coordinator). *Proceedings of the Conference on Coastal Watersheds: The Caspar Creek Story*. General Technical Report PSW GTR-168. USDA Forest Service, Pacific Southwest Research Station, Albany, CA. 149 p.

Keppeler, E.T. and R.R. Ziemer. 1990. Logging effects on streamflow: water yields and summer low flows at Caspar Creek in northwestern California. *Water Resources Research* 26(7): 1669-1679.

Klein, R.D. 2015. Hydrologic assessment of low flows in the Mattole River basin, 2004-2014. Final report prepared for the Sanctuary Forest, Inc. Arcata, CA. 18 p.

Moore, R.D. and S.M. Wondzell. 2005. Physical hydrology and the effects of forest harvesting in the Pacific Northwest: a review. *Journal of the American Water Resources Association* 41(4): 763-784.

Moore, G.W., B.J. Bond, J.A. Jones, N. Phillips, and F.C. Meinzer. 2004. Structural and compositional controls on transpiration in 40- and 450-year-old riparian forests in western Oregon, USA. *Tree Physiology* 24(5): 481-491.

Hicks, B.J., R.L. Beschta, and R.D. Harr. 1991. Long-term changes in streamflow following logging in western Oregon and associated fisheries implications. *Water Resour. Bull.* 27(2): 217-226.

Perry, T.D. 2007. Do vigorous young forests reduce streamflow? Results from up to 54 years of streamflow records in eight paired-watershed experiments in the H.J. Andrews and South Umpqua Experimental Forests. M.S. thesis, Oregon State University. Corvallis, OR. 135 p.

DRAFT

Price, K., C.R. Jackson, A.J. Parker, T. Reitan, J. Dowd, and M. Cyterski. 2011. Effects of watershed land use and geomorphology on stream low flows during severe drought conditions in the southern Blue Ridge Mountains, Georgia and North Carolina, USA. *Water Resources Research*, 47: W02516. 39 p.

Reid, L.M. and J. Lewis. 2011. Evaluating cumulative effects of logging and potential climate change on dry-season flow in a coast redwood forest. Pp. 186-191 in: Medley, C.N.; G. Patterson, and M.J. Parker (Eds.). *Proceedings of the Fourth Interagency Conference on Research in the Watersheds: Observing, Studying, and Managing for Change*, 26-30 September 2011; Fairbanks, AK. USGS Scientific Investigations Report 2011–5169. US Geological Survey. 202 p.

Reid, L.M. 2012. Comparing hydrologic responses to tractor-yarded selection and cable-yarded clearcut logging in a coast redwood forest. Pp. 141-151 in: Standiford, R.B.; T.J. Weller, D.D. Piirto, and J.D. Stuart. (Technical coordinators). *Proceedings of the Coast Redwood Forests in a Changing California: a Symposium for Scientists and Managers*. General Technical Report PSW-GTR-238. USDA Forest Service, Pacific Southwest Research Station. Albany, CA. 675 p.

Rothacher, J. 1970. Increases in water yield following clear-cut logging in the Pacific Northwest. *Water Resources Research* 6(2): 653-658.

Stednick, J. 1996. Monitoring the effects of timber harvest on annual water yield. *Journal of Hydrology* 176: 79-95.

Stednick, J. 2008. Effects of timber harvesting on streamflow in the Alsea Watershed Study. P. 19-36 in *Hydrological and Biological Responses to Forest Practices*, Stednick, J.D. (ed.). Springer, New York.

Stubblefield, A., M. Kaufman, G. Blomstrom, and J. Rogers. 2012. Summer water use by mixed-age and young forest stands, Mattole River, northern California, U.S.A. Pp. 183-193 in: Standiford, Richard B.; Weller, Theodore J.; Piirto, Douglas D.; Stuart, John D., tech. coords. *Proceedings of coast redwood forests in a changing California: A symposium for scientists and managers*. Gen. Tech. Rep. PSW-GTR-238. Albany, CA: Pacific Southwest Research Station, Forest Service, U.S. Department of Agriculture.

Surfleet, C.G and A.E. Skaugset. 2013. The effect of timber harvest on summer low flows, Hinkle Creek, Oregon. *West. J. Appl. For.* 28(1): 13-21.