## Bibliographical references: Material on floods by R D Jarrett

Jarrett, R.D., 1973a, Climatology and Hydrology sections, *in* U.S. Army Corps of Engineers report of flood tropical storm Agnes, June 21-23, 1972, Genesee River Basin: Buffalo, N.Y., U.S. Army Engineer District, 121 p.

Jarrett, R.D., 1973b, Climatology and Hydrology sections, *in* U.S. Army Corps of Engineers report of flood tropical storm Agnes, June 1973, Oswego River Basin: Buffalo, N.,Y., U.S. Army Engineer District, 93 p.

Jarrett, R.D., 1974, Hydrology section, *in* U.S. Army Corps of Engineers post-flood report on effects of Agnes, Stannard Reservoir, New York, Genesee River basin: Buffalo, N.Y., U.S. Army Engineer District, 74 p.

McCain, J.F., and Jarrett, R.D., 1976, Manual for estimating flood characteristics of natural-flow streams in Colorado: Colorado Water Conservation Board Technical Manual No. 1, 68 p.

Jarrett, R.D., 1978, Flood Insurance Study, Town of Palmer Lake, El Paso County, Colorado: U.S. Department of Housing and Urban Development, Federal Insurance Administration, 20 p.

Cochran, B.J., Hodges, H.E., Livingston, R.K., and Jarrett, R.D., 1979, Rainfall-runoff data from small watersheds in Colorado, October 1974 to September 1977: U.S. Geological Survey Open-File Report 79-1261, 678 p.

Costa, J.E., and Jarrett, R.D., 1981, Debris flows in small mountain stream channels of Colorado and their hydrologic implication: Association of Engineering Geologist Bulletin, v. 18, no. 3., p. 309-322.

Elliott, J.G., Jarrett, R.D., and Ebling, J.L., 1982, Annual snowmelt and rainfall peak-flow data on selected foothill region streams, South Platte River, Arkansas River, and Colorado River basins, Colorado: U.S. Geological Survey Open-File Report 82-426, 86 p.

Jarrett, R.D., and Costa, J.E., 1983, Multidisciplinary approach to the flood hydrology of foothill streams in Colorado, *in* Johnson, A.I. and Clark, R.A., eds., American Water Resources Association, International Symposium of Hydrometeorology, Denver, June 13-17, 1982, p. 565-569.

Cochran, B.J., Minges, D.R., Jarrett, R.D., and Veenhuis, J.E., 1983, Rainfall-runoff data from small watersheds in Colorado, October 1977 through September 1980: U.S. Geological Survey Open-File Report 82-873, 748 p.

Jarrett, R.D., 1984, Hydraulics of high-gradient streams: American Society of Civil Engineers, Journal of Hydraulic Engineering, v. 110, no. 1, p. 1519-1939.

Jarrett, R.D., and Veenhuis, J.E., 1984, An evaluation of rainfall-runoff data for the Denver Federal Center, Lakewood, Jefferson County, Colorado: U.S. Geological Survey Water-Resources Investigations Report 84-4050, 29 p.

Marchand, J.P., Jarrett, R.D., and Jones, L.L., 1984, Velocity profile, water slope, and bed-material size data for selected streams in Colorado: U.S. Geological Survey Open-File Report 84-733, 82 p.

Jarrett, R.D., 1985, Determination of roughness coefficients for streams in Colorado: U.S. Geological Survey Water Resources Investigations 85-4004, 54 p.

Jarrett, R.D., and Costa, J.E., 1985, Hydrology, geomorphology, and dam-break modeling of the July 15, 1982, Lawn Lake Dam and Cascade Lake Dam failures, Larimer County, Colorado: U.S. Geological Survey Open-File Report 84-612, 109 p.

Jarrett, R.D., and Petsch, H.E., Jr., 1985, Computer Program NCALC user's manual, Verification of Manning's roughness coefficient in channels: U.S. Geological Survey Water-Resources Investigations Report 85-4317, 27 p.

Jarrett, R.D., 1986, Evaluation of the slope-area method of computing peak discharge: U.S. Geological Survey Water Supply Paper 2310, p. 13-24.

Jarrett, R.D., and Boyle, J.M., 1986, Pilot study for field collection of bridge-scour data in Colorado: U.S. Geological Survey Water-Resources Investigation Report 86-4030, 46 p.

Jarrett, R.D. and Costa, J.E., 1986, Hydrology, geomorphology, and dam break modeling of the July 15, 1982 Lawn Lake Dam and Cascade Lake Dam Failures, Larimer County, Colorado: U.S. Geological Survey Professional Paper 1369, 79 p.

Landwehr, J.M., Tasker, G.D., and Jarrett, R.D., 1987, Discussion of "Relative Accuracy of Log Pearson III Procedure," by Wallis, J.R., and Wood, E.F., 1985, ASCE, Journal of Hydraulic Engineering, Vol. III, No. 7, p. 1043-1056, in ASCE Journal of Hydraulic Engineering, vol. 113, no. 9, p. 1206-1210.

Jarrett, R.D., 1987a, Peak discharge errors in slope-area computation in mountain streams: Journal of Hydrology, vol. 96, no. 1-4, p. 53-67.

Jarrett, R.D., 1987b, Hydrologic research related to the 1976 Big Thompson River flood (invited), *in* Gruntfest, E.C., What we have learned since the Big Thompson flood 10th Anniversary Conference, Boulder, Colorado, July 1976, Proceeding: Boulder, Colorado, Natural Hazards Research and Applications Information Center Special Publication no. 16, p. 203-212.

Jarrett, R.D., 1987c, Flood Hydrology of foothill and mountain streams in Colorado: Ph.D. dissertation, Department of Civil Engineering, Colorado State University, Fort Collins, Colorado, 239 p.

Jarrett, R.D., 1987d, Closure on Hydraulics of high-gradient streams: Journal of Hydraulic Engineering, v. 113, no. 7, p. 918-929.

Jarrett, R.D., and Malde, H.E., 1987, Paleodischarge of the late Pleistocene Bonneville flood, Snake River, Idaho, computed from new evidence: Geological Society of American Bulletin, v. 99, p. 127-134.

Trieste, D.J., and Jarrett, R.D., 1987, Roughness coefficients of large floods: *in* James, L.D., and English, M.J., eds., Irrigation and Drainage Division Specialty Conference "Irrigation Systems for the 21st Century", Portland, Oreg., 1987, Proceedings: New York, American Society of Civil Engineers, p. 32-40.

Jarrett, R.D., 1988a, Hydroclimatic data errors and their effects on the perception of climate change, *in* Pielke, R.A., and Kittel, T.G.F., eds., Monitoring climate for the effects of increasing greenhouse gas concentrations--Workshop sponsored by the Cooperative Institute for Research in the Atmosphere, Fort Collins, Colorado, August 26-28, 1987: Fort Collins, Colorado State University, p. 149-158.

Jarrett, R.D., 1988b, Limited detail flood insurance study, Elk River near Clark, Colorado, U.S. Department of Housing and Urban Development, Federal Insurance Administration, 8 p.

Jarrett, R.D., 1988c, Limited detail flood insurance study, Downstream from Steamboat Springs, Colorado, U.S. Department of Housing and Urban Development, Federal Insurance Administration, 10 p.

Jarrett, R.D., 1988d, Limited detail flood insurance study, Upstream from Steamboat Springs, Colorado, U.S. Department of Housing and Urban Development, Federal Insurance Administration, 12 p.

Jarrett, R.D., and Costa, J.R., 1988, Evaluation of the flood hydrology in the Colorado Front Range using streamflow records and paleohydrologic data for the Big Thompson River Basin: U.S. Geological Survey Water Resources Investigations Report 87-4117, 37 p.

Jarrett, R.D., and Crow, L.W., 1988, Experimental Marvin windshield effects on precipitation records in Leadville, Colorado: Water Resources Bulletin, v. 24, no. 3, p. 615-626.

Jarrett, R.D., 1989a, Hydraulics of Mountain Rivers: *in* Yen B.C., ed., International Conference on Channel Flow and Catchment Runoff--Centennial of Manning's Formula and Kuichling's Rational Formula: Charlottesville, Virginia, Proceedings, v. 1, p. 599-608.

Jarrett, R.D., 1989b, Hydrology and paleohydrology used to improve the understanding of flood hydrometeorology in Colorado: *in* Albertson, M.L., and Kia, R.L., eds., Design of Hydraulic Structures 89: Brookfield, Vt., A.A. Balkema Publishers, p. 9-16.

Jarrett, R.D., 1990a, Hydrologic and hydraulic research in mountain rivers: Water Resources Bulletin, v. 26, no. 3, p. 419-429.

Jarrett, R.D., 1990b, Paleohydrology used to define the spatial occurrence of floods: Geomorphology, v. 3, no. 2, p. 181-195.

Jarrett, R.D., 1990c, Hydrologic and hydraulic research in mountain rivers: *in* Molnar, Ludovit, ed., Hydrology of Mountainous Areas, IAHS Publication No. 190, p. 107-117.

Jarrett, R.D., 1991a, Paleohydrology and its value in analyzing floods and droughts (invited): U.S. Geological Survey Water Supply Paper 2375, pp. 105-116.

**By special invitation** by Dr. Geoff Kite, the above paper was reprinted in Canada because of their interest in paleohydrology and climatic change.

Jarrett, R.D., 1992, Paleohydrology and its value in analyzing floods and droughts: in Kite, G.W., and Harvey, K.D., eds., Using Hydrometric Data to Detect and Monitor Climatic Change: Proceedings of the National Hydrology Research Institute Workshop No. 8, Saskatoon, Saskatchewan, p. 89-106.

**By special invitation** by Dr. Junichi Yoshitani, Public Works Research Institute, Japan, the following papers were translated and published in Japanese due to their interest in paleohydrology.

Jarrett, R.D., and Malde, H.E., 1987, Paleodischarge of the late Pleistocene Bonneville flood, Snake River, Idaho, computed from new evidence: Geological Society of American Bulletin, v. 99, p. 127-134.

Jarrett, R.D., 1990, Paleohydrology used to define the spatial occurrence of floods: Geomorphology, v. 3, no. 2, pp 181-195.

Jarrett, R.D., 1991, Paleohydrology and its value in analyzing floods and droughts: U.S. Geological Survey Water Supply Paper 2375, p. 105-116.

**By special invitation** of the Electric Power Research Institute (EPRI), the following paper was reprinted by EPRI due to their interest in pursuing research in paleohydrology and hydrologic aspects of dam safety.

Jarrett. R.D., 1993c, Paleohydrology and its value in analyzing floods and droughts: EPRI TR-101242, Project 3113-01, Palo Alto, Calif., Final Report, Volume 3, 15 p.

Jarrett, R.D., 1991b, Wading measurements of vertical velocity profiles: Geomorphology, v. 4, p. 243-247.

Jarrett, R.D., 1991c, Use of paleohydrologic investigations in developing a flood-warning system, Pikes Peak area, Colorado, *in* Gruntfest, Eve, ed., Multiobjective River Corridor Planning-Proceedings of the Urban Stream Corridor and Stormwater Management Workshop, March 14-16, 1989, Colorado Springs, Colo.: Madison, WI., The Association of State Floodplain Managers, p. 43-44.

Jarrett, R.D., 1992, Hydraulics of Mountain Rivers, *in* Yen, B.C. ed., Channel Flow Resistance-Centennial of Manning's Formula: International Conference for the Centennial of Manning's and Kuichling's Rational Formula, Water Resources Publications, Littleton, Colorado, p. 287-298.

Waythomas, C.F., Jarrett, R.D., and Osterkamp, W.O., 1992, Late Quaternary fluvial activity and climatic variability in the Colorado Front Range foothills and piedmont: Current Research in the Pleistocene, v. 8.

Jarrett, R.D., 1993a, Flood elevation limits in the Rocky Mountains, *in* Kuo, C.Y., ed., Engineering Hydrology--Proceedings of the symposium sponsored by the Hydraulics Division of the American Society of Civil Engineers, San Francisco, California, July 25-30, 1993: New York, American Society of Civil Engineers, p. 180-185.

Jarrett, R.D.,1993b, Rocky Mountain Hydrologic Research Center: U.S. Geological Survey Open-File Report 93-61.

Jarrett, R.D., and Costa, J.E., 1993, Hydrology and geomorphology, 1982 Lawn Lake dam failure, Colorado (invited): McCutchen, H.E., Herrmann, Raymond, and Stevens, D.R., eds., Ecological effects of the Lawn Lake flood of 1982, Rocky Mountain National Park: Scientific Monograph NPS/NRROMO/NRSM-93/21, USDI, National Park Service, p. 1-17.

Waythomas, C.F., and Jarrett, R.D., 1993, Differentiation of debris-flow and flash-flood deposits: Implications for paleoflood investigations *in* Shen, H.W., Su, S.T., and Wen, Feng, eds., Hydraulic Engineering '93 Volume 2 -- Proceedings of the symposium sponsored by the Hydraulics Division of the American Society of Civil Engineers, San Francisco, California, July 25-30, 1993: New York, American Society of Civil Engineers, p. 1900-1901.

Jarrett, R.D., 1994, Historic-flood evaluation and research needs in mountainous areas, in Cotroneo, G.V., and Rumer, R.R., eds., 1994, Hydraulic Engineering--Proceedings of the symposium sponsored by the American Society of Civil Engineers, Buffalo, New York, August 1-5, 1994: New York, American Society of Civil Engineers, p. 875-879.

Salas, J.D., Wohl, E.E., and Jarrett, R.D., 1994, Determination of flood characteristics using systematic, historical and paleoflood data *in* Coping with Floods, Rossi, G., Harmancioglu, N., and Yevjevich, V., eds.: Dordrecht, Kluwer Academic Publishers, p. 111-134.

Waythomas, C.F., and Jarrett, R.D., 1994, Flood geomorphology of Arthurs Rock Gulch, Colorado, paleoflood history: Geomorphology, v. 11, p. 15-40.

Grimm, M.M., Wohl, E.E., and Jarrett, R.D., 1995, Coarse-sediment distribution as evidence of an elevation limit for flash flooding, Bear Creek, Colorado: Geomorphology, v. 14, no. 12, p. 199-210.

Thompson, D.M, Wohl, E.E., and Jarrett, R.D., 1996, A revised velocity-reversal and sediment-sorting model for a high-gradient, pool-riffle stream: Physical Geography, v. 17, no. 2, p. 1-17.

Pruess, J., Wohl, E.E., and Jarrett, R.D., 1998, Methodology and implications of maximum paleodischarge estimates for mountain channels, upper Animas River basin, Colorado: Arctic and Alpine Research, v. 30, no. 1, p. 40-50.

England, J.F., Jr., Salas, J.D., and Jarrett, R.D., 1998, A comparison of moments-based estimators for flood frequency analysis that incorporates historical information, in proceedings of the First Federal Interagency Hydrologic Modeling Conference, Las Vegas, Nevada, April 19-23, 1998: prepared by the Subcommittee on Hydrology of the Interagency Advisory Committee on Water Data, Volume 1 of 2, p. 4-37 to 4-44.

Jarrett, R.D., 1998, Paleoflood investigations to assess extreme flooding for Elkhead Reservoir, Northwestern Colorado, in proceedings of the First Federal Interagency Hydrologic Modeling Conference, Las Vegas, Nevada, April 19-23, 1998: prepared by the Subcommittee on Hydrology of the Interagency Advisory Committee on Water Data, Volume 1 of 2, p. 4-85 to 4-91.

Thompson, D.M, Wohl, E.E., and Jarrett, R.D., 1999, Velocity reversals and sediment sorting in pools and riffles controlled by channel constrictions: Geomorphology, v. 27, nos. 3-4, p. 229-241.

National Research Council, 1999, Improving American River flood frequency analyses, Committee on American River Flood Frequencies, National Academy Press, Washington, D.C., 120 p.

- Sueker, J.K., Ryan, J.N., Kendall, Carol, and Jarrett, R.D., 2000, Determination of hydrologic pathways during snowmelt for alpine/subalpine basins, Rocky Mountain National Park, Colorado: Water Resources Research, v. 36, no. 1, p. 63-75.
- Swain, R. E., and Jarrett, R.D., 2000, Monograph for using paleoflood data in water resources application, in Hotchkiss, R.H., and Glade, Michael, editors, Building Partnerships, Proceeding of the 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, July 30-August 2, 2000, Minneapolis, MN, American Society of Civil Engineers, Reston, VA, p. 1-7.
- Jarrett, R.D., and Tomlinson, E.M., 2000, Regional interdisciplinary paleoflood approach to assess extreme flood potential: Water Resources Research, vol. 36, no. 10, p. 2957-2984.
- Jarrett, R.D., 2000, Paleoflood investigations for Cherry Creek basin, Eastern Colorado, in Hotchkiss, R.H., and Glade, Michael, editors, Building Partnerships, Proceeding of the 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, July 30-August 2, 2000, Minneapolis, MN, American Society of Civil Engineers, Reston, VA, p. 1-10.
- Parrett, Charles, Jarrett, R.D., 2000, Flood hydrology for Dry Creek, Lake County, Northwestern Montana: U.S Geological Survey Water Resources Investigations Report 00-4069, 12 p.
- Parrett, Charles, and Jarrett, R.D., 2000, Flood hydrology for Dry Creek, Lake County, Northwestern Montana, in Hotchkiss, R.H., and Glade, Michael, editors, Building Partnerships, Proceeding of the 2000 Joint Conference on Water Resources Engineering and Water Resources Planning and Management, July 30-August 2, 2000, Minneapolis, MN, American Society of Civil Engineers, Reston, VA, p. 1-10.
- Jarrett, R.D. Paleohydrologic estimates of convective rainfall in the Rocky Mountains (invited), in Proceeding, Symposium on Precipitation Extremes: Prediction, Impacts, and Responses, 14-18 January 2001, Albuquerque, NM, American Meteorological Society, Boston, MA, p. J40-J43.
- Sueker, J.K., Clow, D.W., Ryan, J.N., and Jarrett, R.D., 2001, Effects of basin physical characteristics on solute fluxes in nine alpine/subalpine basins, Colorado, USA: Hydrological Processes, vol. 15, p. 2749-2769.
- Yanosky, T. M. and Jarrett, R. D., 2002, Dendrochronologic evidence for the frequency and magnitude of paleofloods: Ancient Floods, Modern Hazards: Principles and Applications of Paleoflood Hydrology, AGU's Water Science and Application Series, vol. 5, p. 77-89.
- Jarrett, R. D., and England, J. F., Jr., 2002, Reliability of paleostage indicators for paleoflood studies: Ancient Floods, Modern Hazards: Principles and Applications of Paleoflood Hydrology, AGU's Water Science and Application Series, vol. 5, p. 91-109, with additional supporting data and information on cd-rom.
- Webb, R. H. and Jarrett, R. D., 2002, One-dimensional estimation techniques for discharges of paleofloods and historical floods: Ancient Floods, Modern Hazards: Principles and Applications of Paleoflood Hydrology, AGU's Water Science and Application Series, vol. 5, p. 111-125.
- England, J.F. Jr., Jarrett, R.D., Salas, J.D., 2003, Data-based comparisons of moments estimators using historical and paleoflood data: Journal of Hydrology, v. 278, p. 172-196.

England, J.F., Salas, J.D., and Jarrett, R.D., 2003, Comparisons of two moments-based estimators that utilize historical and paleoflood data for the log Pearson type III distribution: Water Resources Research, v. 39, no. 9, p. 1243.

Tomlinson, E.M., Jarrett, R.D., Parzybok, T.W., and Trieste, D.J., 2004, Reanalysis of a Colorado extreme rainstorm using GIS, paleoflood, and rainfall-runoff: Journal of Dam Safety, v. 2, no. 4, p. 21-31.

Jarrett, R.D., and Costa, J.E., 2006, 1976 Big Thompson Flood, Colorado – Thirty Years Later: U.S. Geological Survey Fact Sheet 2006-3095, 6 pages.

Jarrett, R.D., and Vandas, S.J. (compilers), 2006, 1976 Big Thompson Flood, Colorado: U.S. Geological Survey General Information Product 35, 1 sheet (poster).