Summary:
Total papers submitted to, accepted by, or published in refereed journals: 117
Total papers submitted to, accepted by, or published in non-refereed journals: 9
Total number and percent multi-institutional: 27%
Total number and percent multidisciplinary: 48%

Highlighted area key:
Macrotheme areas are identified in brackets; please notify Mary if these are misclassified
MI = multi-institutional
MD = multidisciplinary (preliminary classification, based on involvement of more than one traditional
hydrology discipline. Physical hydro modeling, for example, is not considered MI, but hydro studies
incorporation atmospheric sciences or ecology are considered MI. Likewise, economic studies only
considering the value of water are not considered MI, nor are public policy/water management studies that
do not cross disciplinary boundaries).

Peer-reviewed:

Abbasi, F., J. Feyen, and M. Th. Van Genuchten, Two-dimensional simulation of water flow and
solute transport below furrows: Model calibration and validation, J. Hydrol., 290(1-2), 63-79,
2004. [RS]

Abbaspour, K.C., C. A. Johnson, and M. Th. van Genuchten, Estimating uncertain flow and
transport parameters using a sequential uncertainty fitting procedure. Vadose Zone J., 3: 1340-
1352, 2004. [RS]

Ajami, K.N., H.V. Gupta, T. Wagener, and S. Sorooshian, Calibration of a semi-distributed
hydrologic model for streamflow estimation along a river system, J. Hydrol., 298(1-4): 112-135,
2004. [IM]

Anderson, B., H. Kanamaru, and J.O. Roads, The summertime atmospheric hydrologic cycle over
the southwestern US and northwestern Mexico, forthcoming in J. of Hydrometeorology. [IM] MD

Aparicio, J., and J. Hidalgo, Water resources management at Mexican boundaries, Water

Bagstad, K.J., S.J. Lite, and J.C. Stromberg. Vegetation and hydro-geomorphology of riparian
patch types of a dryland river, submitted to Western N. Amer. Naturalist. [R08] MD

Bagstad, K.J., J.C. Stromberg, and S.J. Lite, Response of herbaceous riparian plants to flooding of
the San Pedro River, Arizona, forthcoming in Wetlands. [R08]

Bark, R., Hedonic valuation of urban riparian amenities using remote sensing data, submitted to
J. Environ. Econ. Management. [KT] MD

Belnap, J., J. Welter, N.B. Grimm, and N. Barger, Linkages between microbial and hydrologic
processes in arid and semi-arid watersheds, forthcoming in Ecology. [RS] MD

Borgesen, C.D., and M.G. Schaap, Calibration and evaluation of point and parameter pedotransfer functions for estimating soil hydraulic properties, forthcoming in *Geoderma*. [R03] MD


Burke, E.J., C.M. Brown-Mitic, W.J. Shuttleworth, J.R. Petti, R.C. Harlow, and P.D. Brooks, Assimilation of remotely sensed data into the biome-BGC ecosystem to improve the prediction of energy and carbon exchange in southwestern mountain island forests, submitted to *Agri. & Forest Meteorol.* (reported in 2004; any update?; emailed constance 1-12) [R33] MD


Cardenas, M.B., and J.L. Wilson, Hydrodynamics of coupled flow above and below a sediment-water interface with triangular bed forms, submitted to J. of Geophysical Res. (Oceans). [ask if SAHRA-related]


Kim, Jinwon, Jongyoun Kim, J.D. Farrara, and J.O. Roads, The effects of the Gulf of California SSTs on warm-season rainfall in the southwestern United States and northwestern Mexico: A regional model study, submitted to J. Hydrometeorology. [IM] MD

Kim, T., and J.B. Valdés, Synthetic generation of hydrologic time series based on nonparametric random generation, forthcoming in J. Hydrol. Eng, ASCE. [KT/ED]
Kim, T.W., J. B. Valdés, B. Nijssen, and D. Roncayolo, Quantification of linkages between large-scale climatic patterns and precipitation variations in the Colorado River Basin, submitted to J. of Hydrology. [KT/ED]

Kim, T., J.B. Valdés, and J. Aparicio, Spatial characterization of droughts in the Conchos River Basin based on bivariate frequency analysis, forthcoming in Water Int. [K02]


Lite, S.J., and J.C. Stromberg. Surface water and ground-water thresholds for maintaining Populus - Salix forests, San Pedro River, Arizona, forthcoming in Biological Conservation. [R08] MD


Long, J.W., A. Medina and A. Tecle, Failing to see the mountains for the cows: Implications of ignoring geological variation on fish habitat, submitted to Ecology and Society. [E07] MD


Morin, E., D.C. Goodrich, R.A. Maddox, X. Gao, H.V. Gupta, and S. Sorooshian, Rainfall modeling for integrating radar information into hydrological model, submitted to *Atmospheric Science Letters*. [IM] [MI] [MD]


Small, E.E., Climatic controls on diffuse groundwater recharge in arid and semiarid environments, forthcoming in Water Resour. Res. [BS] [MD]

Stromberg, J.C., K.J. Bagstad, J. Leenhouts, S.J. Lite, and E. Makings, Effects of stream flow intermittency on riparian vegetation of a semiarid region river (San Pedro River, Arizona), forthcoming in River Res. and Application. [R08]


Yilmaz, K.K., T.S. Hogue, K. Hsu, S. Sorooshian, H.V. Gupta, and T. Wagener, Intercomparison of rain gauge, radar and satellite-based precipitation estimates with emphasis on hydrologic forecasting, submitted to *J. of Hydromet*. [IM] MD


**Books and book chapters:**


Franks, S., T. Wagener, H.V. Gupta, E. Boegh, L. Bastidas, C. Nobre, C. de Oliveira Galvão, eds., Regional Hydrologic Impacts of Climate Variability and Change with an Emphasis on Less


Wagener, T., H.V. Gupta, E. Boegh, S. Franks, L. Bastidas, C. Nobre, C. de Oliveira Galves (eds.), *Regional Hydrologic Impacts of Climate Variability and Change with an Emphasis on*


Non-peer reviewed:


Southwest Hydrology, vols. 2, no. 5 through 3, no. 4 (Sept/Oct. 2003 through July/Aug. 2004) were produced, edited, and published by SAHRA. Contributions by SAHRA authors included the following:

- Black, M., Australians cope with long-term drought. (vol. 3, no. 2) MI
- Dragoo, C., and R. Faris, Alternative futures for the City of La Paz, Mexico. (vol. 3, no. 3)
- Ekwurzel, B., Flooding during a drought? Climate variability and fire in the Southwest. (vol. 3, no. 5) MD
- Goodrich, D., D. Semmens, and A. Cate, AGWA: GIS’s future on the Web (vol. 3, no. 3)
- Hancock, E., From Monsoon Madness to Wildfire Adventures: Two summer camps. (vol. 3, no. 6)
- Hancock, E., Water camps and exhibits for Summer 2004. (vol. 3, no. 2)
- Hong, Y., W.J. Shuttleworth, K. Hsu, and S. Sorooshian, Satellites provide data to estimate rainfall at global and regional scales. (vol. 3, no. 1)
• Whitaker, M., Dig into the GLOBE Soil Moisture Campaign. (vol. 3, no. 1)
• Woodard, G., Climate-change articles note worldwide ice mass reduction. (vol. 3, no.1)
• Woodard, G., Is water weird or just a common commodity? (vol. 3, no. 2)
• Woodhouse, B., Fire effects on stream discharge. (vol. 3, no. 5) 
• Woodhouse, B., and G. Wildeman, The Arizona Water Banking Authority: a nonprofit water storage facilitator. (vol. 3, no. 2)