

## PEER REVIEW PUBLICATIONS

### 2023

Kang, S., Kroeger, T., Shemie, D., Echavarria, M., Montalvo, T., Bremer, L.L., Bennett, G., Barreto, S.R., Bracale, H., Calero, C. and Cardenas, A., 2023. Investing in nature-based solutions: Cost profiles of collective-action watershed investment programs. *Ecosystem Services*, 59, 101507.

<https://doi.org/10.1016/j.ecoser.2022.101507>

Hastings, Z., Ticktin, T., Wong, M., Kukea-Shultz, K., & Bremer, L.L. 2023. Non-native fallows hold high potential for restoration through agroforestry in a Pacific Island Ecosystem. *Agriculture, Ecosystems, and Environment*. 324, 108214. <https://doi.org/10.1016/j.agee.2022.108214>

Dulai, H., Smith, C. M., Amato, D. W., Gibson, V., & Bremer, L. L. (2023). Risk to native marine macroalgae from land-use and climate change-related modifications to groundwater discharge in Hawai'i. *Limnology and Oceanography Letters*, 8(1), 141-153. <https://doi.org/10.1002/lo2.10232>

### 2022

Loos, J., Benra, F., Berbés-Blázquez, M., Bremer, L.L., Chan, K., Ego, B., Felipe-Lucia, M., Geneletti, D., Keeler, B., Locatelli, B. and Loft, L., 2022. An environmental justice perspective on ecosystem services. *Ambio*. <https://doi.org/10.1007/s13280-022-01812-1>

DeMaagd, N. P., Fuleky, K.M. Burnett, and C. A. Wada. 2022. Tourism Water Use During the COVID-19 Shutdown. *Annals of Tourism Research*. <https://doi.org/10.1016/j.annals.2022.103475>

Gibson, V., Bremer, L.L., Burnett, K., Lui, N., & Smith, C. (2022). Biocultural values of groundwater dependent ecosystems in Kona, Hawai'i. *Ecology and Society*, 27(3).

<https://doi.org/10.5751/ES-13432-270318>

Bremer, L. L., Coffman, M., Summers, A., Kelley, L. C., & Kinney, W. (2022). Managing for diverse coastal uses and values under sea level rise: perspectives from O'ahu, Hawai'i. *Ocean & Coastal Management*, 225, 106151. <https://doi.org/10.1016/j.ocecoaman.2022.106151>

Brauman, K. A., Bremer, L. L., Hamel, P., Ochoa-Tocachi, B. F., Roman-Dañobeytia, F., Bonnesoeur, V., et al. (2022). Producing valuable information from hydrologic models of nature-based solutions for water. *Integrated Environmental Assessment and Management*, 18(1), 135–147.

<https://doi.org/10.1002/ieam.4511>

Okuhata, B.K., A.I. El-Kadi, H. Dulai, J. Lee, C.A. Wada, L.L. Bremer, K.M. Burnett, J.M.S. Delevaux, C.K. Shuler (2022). A density-dependent multi-species model to assess groundwater flow and nutrient transport in the coastal Keauhou aquifer, Hawai'i, USA. *Hydrogeology Journal*, 30 (1), 231-250.

<https://doi.org/10.1007/s10040-021-02407-y>

## 2021

Wada, C. A., Burnett, K. M., Okuhata, B. K., Delevaux, J. M., Dulai, H., El-Kadi, A. I., Gibson, V., Smith, C., & Bremer, L. L. (2021). Identifying wastewater management tradeoffs: Costs, nearshore water quality, and implications for marine coastal ecosystems in Kona, Hawai'i. *Plos One*, 16(9), e0257125.

<https://doi.org/10.1371/journal.pone.0257125>

Brauman, K. A., Bremer, L.L., Hamel, P., Tocachi, B. F. O., Roman-Dañobeytia, F., Bonnesoeur, V., Arapa, E., & Gammie, G. (2021). Producing Valuable Information from Hydrologic Models of Nature-Based Solutions for Water. *Integrated Environmental Assessment and Management*.

<https://doi.org/10.1002/team.4511>

Bremer, L.L., Nathan, N., Trauernicht, C., Pascua, P. A., Krueger, N., Jokiel, J., Barton, J. & Daily, G. C. (2021). Maintaining the Many Societal Benefits of Rangelands: The Case of Hawai'i. *Land*, 10(7), 764.

<https://doi.org/10.3390/land10070764>

Bremer, L.L., DeMaagd, N., Wada, C. A., & Burnett, K. M. (2021). Priority watershed management areas for groundwater recharge and drinking water protection: A case study from Hawai'i Island. *Journal of Environmental Management*, 286, 111622. <https://doi.org/10.1016/j.jenvman.2020.111622>

Bremer, L.L., Elshall, A.S., Wada, C.A., Brewington, L., Delevaux, J.M.S., El-Kadi, A.I., Voss, C.I., & Burnett, K.M. (2021). Effects of land cover and watershed protection futures on sustainable groundwater management in Hawai'i. *Hydrogeology Journal*, 1-17. <https://doi.org/10.1007/s10040-021-02310-6>

Melone, A., Bremer, L. L., Crow, S. E., Hastings, Z., Winter, K. B., Ticktin, T., Rii, Y.M., Wong, M., Kukea-Shultz, K., Watson, S.J., & Trauernicht, C. (2021). Assessing Baseline Carbon Stocks for Forest Transitions: A Case Study of Agroforestry Restoration from Hawai'i. *Agriculture*, 11(3), 189.

<https://doi.org/10.3390/agriculture11030189>

Mandle, L., Estrada-Shields, A., Chaplin-Kramer, C., Mitchell, G.E.M., Bremer, L.L., Gourevitch, J.D., Hawthorne, P., Johnson, J., Robinson, B.E., Smith, J.R., Sonter, L.J., Verutes, G.M., Vogls, A.L, Daily, G.C., & Ricketts, J.H. (2021). Increasing decision relevance of ecosystem service science. *Nature Sustainability*, 4(2), 161-169. <https://doi.org/10.1038/s41893-020-00625-y>

Gould, R., Bremer, L.L., Pascua, P., & Meza Prado, K. (2020). Frontiers in cultural ecosystem services: Toward greater equity and justice in ecosystem services research and practice. *Bioscience*, 70(12), 1093-1107. <https://doi.org/10.1093/biosci/biaa112>

## 2020

Endress, L.H., Roumasset, J.A., Wada, C.A., (2020). Do Natural Disasters Make Sustainable Growth Impossible? *Economics of Disasters and Climate Change* 4, 319-345.

<https://doi.org/10.1007/s41885-019-00054-y>

Pongkijvorasin, S., C.A., Wada, and K.M. Burnett. (2020). Optimal multi-instrument management of interrelated resources and a groundwater dependent ecosystem. *Journal of Environmental Management*, 269, <https://doi.org/10.1016/j.jenvman.2020.110723>.

Wada, C. A., Pongkijvorasin, S. and K.M. Burnett. (2020). Mountain-to-sea ecological-resource management: forested watersheds, coastal aquifers, and groundwater dependent ecosystems. *Resource and Energy Economics*. <https://doi.org/10.1016/j.reseneeco.2019.101146>

Winter, K.B., Rii, Y.M., Reppun, F., Hintzen, K.D., Alegado, R.A., Bowen, B.W., Bremer, L.L. et al. (2020). Collaborative research to inform adaptive co-management: a framework for the He'eia National Estuarine Research Reserve, *Ecology and Society*. 25(4):15.  
<https://doi.org/10.5751/ES-11895-250415>

Elshall, A.S., Arik, A.D, El-Kadi, A.I., Pierce, S., Burnett, K.M, Wada, C.A., Bremer, L.L. & Chun, G. (2020). Groundwater sustainability: a review of the interactions between science and policy. *Environmental Research Letters*, 15(9), 093004. <https://iopscience.iop.org/article/10.1088/1748-9326/ab8e8c>

Engels, J.L., Watson, S., Dulai, H., Burnett, K.M., Aga, A., DeMaagd, N., Wada, C.A., McHugh, Sumida, B., & Bremer, L.L. (2020). Collaborative research to support urban agriculture in the face of change: the case of Sumida watercress farm. *Plos One*. 15(7): e0235661.  
<https://doi.org/10.1371/journal.pone.0235661>

Hastings, Z., Ticktin, T., Botelho, M., Reppun, N., Kukea-Shultz, K., Wong, M., Melone, A., & Bremer, L.L. (2020). Integrating co-production and functional trait approaches for inclusive and scalable restoration solutions. *Conservation Science and Practice*, 2(9): e250. <https://doi.org/10.1111/csp2.250>

Winter, K.B., Lincoln, N.K., Berkes, F., Alegado, R.A., Kurashima, N., Frank, K.L., Pascua, P., Rii, Y.M., Reppun, F., Knapp, I.S.S., McClatchey, W.C., Ticktin, T., Smith, C., Franklin, E.C., Oleson, K., Price, M.R., McManus, M.A., Donahue, M.J., Rodgers, K.S., Bowen, B.W., Nelson, C.E., Thomas, B., Leong, J.-A., Madin, E.M.P., Rivera, M.A.J., Falinski, K.A., Bremer, L.L., Deenik, J.L., Gon III, S.M., Neilson, B., Okano, R., Olegario, A., Nyberg, B., Kawelo, A.H., Kotubetey, K., Kukea-Shultz, J.K. & Toonen, R.J. (2020). Ecomimicry in Indigenous resource management: optimizing ecosystem services to achieve resource abundance, with examples from Hawai'i. *Ecology and Society*, 25(2). <https://doi.org/10.5751/es-11539-250226>

Burnett, K.M, Elshall, A.S., Wada, C.A., Arik, A., El-Kadi, A.I., Delevaux, J.M.S, & Bremer, L.L. (2020). Incorporating spring discharge protection into sustainable groundwater management: A case study from Pearl Harbor Aquifer, Hawai'i. *Frontiers Water*, 2(14). <https://doi.org/10.3389/frwa.2020.00014>

Bremer L.L, Hamel P, Ponette-González A.G., Pompeu P.V., Saad S.I., & Brauman, K.A. (2020). Who Are we Measuring and Modeling for? Supporting Multilevel Decision-Making in Watershed Management. *Water Resources Research*, 56, e2019WR026011. <https://doi.org/10.1029/2019WR026011>

Hamel P, Bremer L.L, Ponette-González A.G., Acosta E, Fisher J.R.B., Steele B, Cavassani A.T., Klemz C., Blainski E., & Brauman, K.A. (2020). The value of hydrologic information for watershed management programs: The case of Camboriú, Brazil. *Science of the Total Environment*, 705 (135871).  
<https://doi.org/10.1016/j.scitotenv.2019.135871>

Nelson S.H., Bremer L.L, Meza Prado, K. & Brauman, K.A. (2020). The Political Life of Natural Infrastructure: Water Funds and Alternative Histories of Payments for Ecosystem Services in Valle del Cauca, Colombia *Development and Change*, 51(1), 26–50. <https://doi.org/10.1111/dech.12544>

## 2019

Hayes, T., Grillos, T., Bremer, L.L., Murtinho, F. and Shapiro, E. (2019). Collective PES: More than the sum of individual incentives. *Environmental Science & Policy*, 102, 1-8.  
<https://doi.org/10.1016/j.envsci.2019.09.010>

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<https://doi.org/10.1002/eap.1891>

Bremer, L.L., Farley, K.A., Demaagd, N., Suárez, E., Tandalla, D.C., Vasco, S., Patricio, T., & Vásconez, M. (2019). Biodiversity outcomes of payment for ecosystem services: lessons from páramo grasslands. *Biodiversity and Conservation*, 28, 885-898. <https://doi.org/10.1007/s10531-019-01700-3>

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## 2018

Burnett, K.M., C.A. Wada, M. Taniguchi, R. Sugimoto, and D. Tahara. (2018). Evaluating the Tradeoffs between Groundwater Pumping for Snow-Melting and Nearshore Fishery Productivity in Obama City, Japan. *Water*, 10, <https://doi.org/10.3390/w10111556>.

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<https://doi.org/10.3390/su10093147> (Part of a special issue on biocultural restoration in Hawai'i).

Delevaux, J.M.S., Jupiter, S.D., Stamoulis, K.A., Bremer, L.L., Wenger, A.S., Dacks, R., Garrod, P., Falinski, K.A., & Ticktin, T. (2018). Scenario planning with linked land-sea models inform where forest conservation actions will promote coral reef resilience. *Scientific Reports*, 8, 12465.  
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## 2015

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## 2014

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Burnett, K.M., S. D'Evelyn, L. Loope, and C.A. Wada. (2012). An Economic Approach to Assessing Import Policies Designed to Prevent the Arrival of Invasive Species: The Case of Puccinia psidii in Hawai'i. *Environmental Science & Policy* 19-20: 158-168.

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Farley K.A., Anderson W.G, Bremer L.L., and Harden C.P. (2011). Compensation for ecosystem services: an evaluation of efforts to achieve conservation and development in Ecuadorian páramo grasslands. *Environmental Conservation*, 38(4), 1-13. <https://doi.org/10.1017/S037689291100049X>

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## TECHNICAL REPORTS, BOOK CHAPTERS, AND OUTREACH PUBLICATIONS

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