

REFERENCES

- ABDULKARIM, B., YACOB, M. R., ABDULLAH, A. M., & RADAM, A. (2017). Households' preferences and willingness to pay for watershed services attributes in north Selangor peat swamp forest Malaysia. *Asian Journal of Economic Modelling*, 5(1), 98-109. doi: [10.18488/journal.8/2017.5.1/8.1.98.109](https://doi.org/10.18488/journal.8/2017.5.1/8.1.98.109)
- ALEMAYEHU, N., & ASHAGRIC, Y. (1991). Linseed, gomenzer and rapeseed agronomy research in Ethiopia. *Oilseeds Research afid 000 development in Ethiopia*, 104. IAR.
- ALEMAYEHU, T. (2014). Smallholder farmer's willingness to pay for improved irrigation water: a contingent valuation study in Koga Irrigation Project, Ethiopia. *Journal of Economics and Sustainable Development*, 5(19), 5-15. <https://core.ac.uk/download/pdf/234646581.pdf>
- ALHASSAN, M., LOOMIS, J., FRASIER, M., DAVIES, S., & ANDALES, A. (2013). Estimating farmers' willingness to pay for improved irrigation: an economic study of the Bontanga irrigation scheme in Northern Ghana. Note 1. *Journal of Agricultural Science*, 5(4), p.31. <https://doi.org/10.5539/jas.v5n4p31>
- ANDREWS, B., FERRINI, S., & BATEMAN, I. (2017). Good parks—bad parks: the influence of perceptions of location on WTP and preference motives for urban parks. *Journal of Environmental Economics and Policy*, 6(2), 204-224. <https://doi.org/10.1080/21606544.2016.1268543>
- ARIYO, O. J., & ALGHAMDI, S. S. (2018). Analysis of combining ability over environments in diallel crosses of maize (*Zea mays*). *Journal of the Saudi Society of Agricultural Sciences*, 17(1), 69-78. <https://doi.org/10.1016/j.jssas.2016.01.004>
- ARROW, K., SOLOW, R., PORTNEY, P. R., LEAMER, E. E., RADNER, R., & SCHUMAN, H. (1993). Report of the NOAA panel on contingent valuation. *Federal register*, 58(10), 4601-4614. https://edisciplinas.usp.br/pluginfile.php/5021379/mod_resource/content/0/Arow_WTP.pdf
- ASRAT, P., BELAY, K., & HAMITO, D. (2004). Determinants of farmers' willingness to pay for soil conservation practices in the southeastern highlands of Ethiopia. *Land Degradation & Development*, 15(4), 423-438. <https://doi.org/10.1002/ldr.623>
- ASRAT, S., YESUF, M., CARLSSON, F., & WALE, E. (2010). Farmers' preferences for crop variety traits: Lessons for on-farm conservation and technology adoption. *Ecological Economics*, 69(12), 2394-2401. <https://doi.org/10.1016/j.ecolecon.2010.07.006>
- AYANA, G. Y. (2017). Farmers willingness to pay for soil conservation practices in Gobu Seyo district, Eastern Wollega zone, Oromia national regional state of Ethiopia." *International Journal of Agriculture and Environmental Research*, 3(3): 2976. doi: [10.22004/ag.econ.262818](https://doi.org/10.22004/ag.econ.262818)
- AYENEW, B., & MERIDE, Y. (2015). Labor as a payment vehicle for valuing soil and water conservation practice: an application of contingent valuation method in Abaro-Toga Watershed, Southern Ethiopia. *Journal of Economics and Sustainable Development*, 6(15), 17-26. <https://core.ac.uk/download/pdf/234647174.pdf>
- AYENEW, B., TILAHUN, A., ERIFO, S., & TESFAYE, P. (2019). Household willingness to pay for improved solid waste management in Shashemene Town, Ethiopia. *African Journal of Environmental Science and Technology*, 13(4), 162-171. <https://doi.org/10.5897/AJEST2019.2663>
- BAKAKI, Z., & BERNAUER, T. (2016). Measuring and explaining the willingness to pay for forest conservation: evidence from a survey experiment in Brazil. *Environmental Research Letters*, 11(11), 114001. <https://iopscience.iop.org/article/10.1088/1748-9326/11/11/114001/pdf>
- BANDARA, R., & TISDELL, C. (2005). Changing abundance of elephants and willingness to pay for their conservation. *Journal of Environmental Management*, 76(1), 47-59. <https://doi.org/10.1016/j.jenvman.2005.01.007>
- BARTLETT, J. E. II, KOTRLIK, J. W., & HIGGINS, CH. C. (2001). Organizational research: determining appropriate sample size in survey research appropriate sample size in survey research. *Information technology, learning, and performance Journal*, 19(1), 43.
- BATEMAN, I. J., & WILLIS, K. G. (2001). Valuing environmental preferences: Theory and practice of the contingent valuation method in the US, EU and developing countries. *Resources Policy*, 27(1), 57-59. [https://doi.org/10.1016/S0301-4207\(00\)00045-3](https://doi.org/10.1016/S0301-4207(00)00045-3)
- BELAY, G., KETEMA, M., & HASEN, M. (2020). Households' willingness to pay for soil conservation on communal lands: application of the contingent valuation method in north eastern Ethiopia. *Journal of Environmental Planning and Management*, 63(12), 2227-2245. <https://doi.org/10.1080/09640568.2020.1717933>
- BERGSTROM, J. C., STOLL, J. R., TITRE, J. P., & WRIGHT, V. L. (1990). Economic value of wetlands-based recreation. *Ecological economics*, 2(2), 129-147. [https://doi.org/10.1016/0921-8009\(90\)90004-E](https://doi.org/10.1016/0921-8009(90)90004-E)
- BICKFORD, R. (2020). This report contains assessments of commodity and trade issues made by USDA staff and not necessarily statements of official U.S. government policy. *USDA*.
- BOGALE, A. (2011). Valuing natural forest resources: an application of contingent valuation method on Adaba-Dodola forest priority area, Bale mountains, Ethiopia. *Journal of Sustainable Forestry*, 30(6), 518-542. <https://doi.org/10.1080/10549811.2011.567353>
- BOGALE, A., & BERHANU, U. (2012). Households' willingness to pay for improved rural water service provision: application of contingent valuation method in Eastern Ethiopia. *Journal of Human Ecology*, 38(2), 145-154. DOI: [10.1080/09709274.2012.11906483](https://doi.org/10.1080/09709274.2012.11906483)
- BOYLE, K. J., WELSH, M. P., & BISHOP, R. C. (1988). Validation of empirical measures of welfare change: Comment. *Land Economics*, 64(1), 94-98. <https://www.jstor.org/stable/3146613>

- BREIDERT, C. (2007). *Estimation of willingness-to-pay: Theory, measurement, application*. Springer Science & Business Media. <https://www.springer.com/gp/book/9783835003996#aboutBook>
- CARSON, R. T. (2000). Contingent valuation: a user's guide. <https://econweb.ucsd.edu/~rcarson/papers/CVusersguide.pdf>
- CAWLEY, J. (2008). Contingent valuation analysis of willingness to pay to reduce childhood obesity. *Economics & Human Biology*, 6(2), 281–292. <https://doi.org/10.1016/j.ehb.2008.05.003>
- CHEN, W. Y., & JIM, C. Y. (2010). Resident motivations and willingness-to-pay for urban biodiversity conservation in Guangzhou (China). *Environmental management*, 45(5), 1052–1064. <https://doi.org/10.1007/s00267-010-9478-2>
- CHENG, W., D'AMATO, A., & PALLANTE, G. (2020). Benefit sharing mechanisms for agricultural genetic diversity use and on-farm conservation. *Economia Politica*, 37(1), 337–355. <https://doi.org/10.1007/s40888-019-00142-y>
- CHO, S. H., YEN, S. T., BOWKER, J. M., & NEWMAN, D. H. (2008). Modelling willingness to pay for land conservation easements: treatment of zero and protest bids and application and policy implications. *Journal of agricultural and applied economics*, 40(1), 267–285. <https://doi.org/10.1017/S1074070800028108>
- CSA (CENTRAL STATISTICAL AGENCY). (2019). The federal democratic republic of Ethiopia central statistical agency agricultural sample survey. Volume I, report on area and production of major crops. <https://www.statsethiopia.gov.et/our-survey-reports/>
- ENDALEW, B., & WONDIMAGEGNHU, B. A. (2019). Determinants of households' willingness to pay for the conservation of church forests in northwestern Ethiopia: A contingent valuation study. *Cogent Environmental Science*, 5(1), 1570659. <https://doi.org/10.1080/23311843.2019.1570659>
- ENGELS, J.M.M., HAWKES, J.G., HAWKES, J.G. & WOREDE, M. (1992). *Plant genetic resources of Ethiopia*. Cambridge University Press. <https://doi.org/10.1017/S0021859600070775>
- FOOD AND AGRICULTURAL ORGANIZATIONS THE UNITED NATION (FAO). (2012). Cry conservation of animal genetic resources. FAO Animal Production and Health Guidelines No. 12, FAO, Rome. <http://www.fao.org/animal-production/en/>
- GEBREMARIAM, G. G., & EDRISS, A. K. (2012). Valuation of soil conservation practices in Adwa Woreda, Ethiopia: A contingent valuation study. *Journal of Economics and Sustainable Development*, 3(13), 97–107. <https://www.iiste.org/Journals/index.php/JEDS/article/view/3494/3519>
- GELETA, M., & ORTIZ, R. (2013). The importance of *Guizotia abyssinica* (niger) for sustainable food security in Ethiopia. *Genetic resources and crop evolution*, 60(5), 1763–1770. <http://link.springer.com/article/10.1007/s10722-013-9997-9>
- GIRMA, H., HUGÉ, J., GEBREHIWOT, M., & VAN PASSEL, S. (2020). Farmers' willingness to contribute to the restoration of an Ethiopian Rift Valley lake: a contingent valuation study. *Environment, Development and Sustainability*, 23, 10646–10665. <https://doi.org/10.1007/s10668-020-01076-3>
- GREENE, W. H. (2012). *Econometric analysis*. 7th ed. New Jersey: Prentice Hall.
- HAAB, T. C., & MCCONNELL, K. E. (2002). *Valuing environmental and natural resources: the econometrics of non-market valuation*. Edward Elgar Publishing. <https://www.elgar.com/shop/gbp/valuing-environmental-and-natural-resources-9781840647044.html>
- HANEMANN, M. (1984). Welfare evaluation in contingent valuation experiments with discrete responses. *American Journal of Agricultural Economics*, 66, 332–41. <http://hdl.handle.net/10.2307/1240800>
- HANEMANN, W. M. (1994). Valuing the environment through contingent valuation. *Journal of Economic Perspectives*, 8(4), 19–43. <https://pubs.aeaweb.org/doi/pdfplus/10.1257/jep.8.4.19>
- HANEMANN, W. M., & KANNINEN, B. (1996). The statistical analysis of discrete-response CV Data. Working Paper No. 798. *California Agricultural Experiment Station Giannin Foundation of Agricultural Economics*, 123.
- HUNDIE, S. K., & ABDISA, L. T. (2016). Households' willingness to pay for improved water supply: application of the contingent valuation method; evidence from Jigjiga town, Ethiopia. <http://www.rejournal.eu/sites/rejournal.versatech.ro/files/articole/2017-01-03/3411/yhundie.pdf>
- HUSEN, A., MISHRA, V. K., SEMWAL, K., & KUMAR, D. (2012). Biodiversity status in Ethiopia and challenges. *Environmental pollution and biodiversity*, 1, 31–79. DOI:10.13140/RG.2.1.1788.9121
- JIANG, B., ZHOU, X., JIN, S., LI, C. Y., LI, J. L., LI, Y. X., & ZHANG, Y. M. (2014). Conservation of crop genetic diversity for sustainable agriculture. In *Applied Mechanics and Materials*, 448, 968–971). Trans Tech Publications Ltd. <https://doi.org/10.4028/www.scientific.net/AMM.448-453.968>
- JIM, C. Y., & CHEN, W. Y. (2006). Recreation–amenity use and contingent valuation of urban greenspaces in Guangzhou, China. *Landscape and urban planning*, 75(1–2), 81–96. <https://doi.org/10.1016/j.landurbplan.2004.08.008>
- JOHNSTON, R. J., BOYLE, K. J., ADAMOWICZ, W., BENNETT, J., BROUWER, R., CAMERON, T. A., HANEMANN, W.M., HANLEY, N., RYAN, M., SCARPA, R., TOURANGEAU, R., & VOSSLER, CH. A. (2017). Contemporary guidance for stated preference studies. *Journal of the Association of*

- Environmental and Resource Economists*, 4(2), 319–405. <http://dx.doi.org/10.1086/691697>
- JORDAN, J. L., & ELNAGHEEB, A. H. (1993). Willingness to pay for improvements in drinking water quality. *Water resources research*, 29(2), 237-245. <https://doi.org/10.1029/92WR02420>
- KASAYE, B. (2015). Farmers willingness to pay for improved soil conservation practices on communal lands in Ethiopia (Case Study in Kuyu Woreda). Doctoral dissertation, Addis Ababa University. <http://etd.aau.edu.et/bitstream/handle/123456789/4816/Belay%20%20Kasaye.pdf>
- KIM, H. J., & CHO, Y. (2002). Estimating willingness to pay for reduced copper contamination in Southwestern Minnesota. *Journal of Agricultural and Resource Economics*, 450-463. <https://www.jstor.org/stable/40987846?seq=1>
- KREYE, M. M., ADAMS, D. C., & ESCOBEDO, F. J. (2014). The value of forest conservation for water quality protection. *Forests*, 5(5), 862-884. <https://doi.org/10.3390/f5050862>
- LICHTENBERG, E., & ZIMMERMAN, R. (1999). Information and farmers' attitudes about pesticides, water quality, and related environmental effects. *Agriculture, ecosystems & environment*, 73(3), 227-236. DOI: [10.1016/S0167-8809\(99\)00053-5](https://doi.org/10.1016/S0167-8809(99)00053-5)
- LIPPER, L., COOPER, J. C., & ZILBERMAN, D. (2005). Synthesis chapter: managing plant genetic diversity and agricultural biotechnology for development. In *Agricultural Biodiversity and Biotechnology in Economic Development* (pp. 457-477). Springer, Boston, MA. Cooper, J., Lipper, L. M., & Zilberman, D. (Eds.). (2005). *Agricultural Biodiversity and Biotechnology in Economic Development*. https://doi.org/10.1007/0-387-25409-9_19
- MEKONNEN, A. (2000). Valuation of community forestry in Ethiopia: a contingent valuation study of rural households. *Environment and Development Economics*, 289-308. <https://doi.org/10.1017/S1355770X00000188>
- MELAK, A., BELAYHUN, T., KEFYALEW, E., HAILU, A., MUSTEFA, A., & ASSEFA, A. (2020). Farmers' willingness to pay for Sinar donkey conservation in selected districts of Metekel and Assosa zones, northwest Ethiopia: a contingent valuation study. *Biodiversitas Journal of Biological Diversity*, 21(7). <https://doi.org/10.13057/biodiv/d210762>
- MEZGEBO, A. (2012). Households' Willingness to pay for restoring environmental resource: a case study of forest resource from Dire Dawa area, Eastern, Ethiopia. *Ethiopian Journal of Economics*, 21(2), 33-62. <https://www.ajol.info/index.php/eje/article/view/91521>
- MEZGEBO, G. K., & EUNETU, Z. (2015). Households willingness to pay for improved water services in urban areas: A case study from Nebelet town, Ethiopia. *Journal of Development and Agricultural Economics*, 7(1), 12-19. <https://doi.org/10.5897/JDAE2014.0604>
- MITCHELL, R. C., CARSON, R. T., & CARSON, R. T. (1989). *Using surveys to value public goods: the contingent valuation method*. *Resources for the Future*. <https://econweb.ucsd.edu/~rcarson/papers/UsingSurveysToValuePublicGoods.pdf>
- MOULD-QUEVEDO, J. F., GARCÍA-PEÑA, C., CONTRERAS-HERNÁNDEZ, I., JUÁREZ-CEDILLO, T., ESPINEL-BERMÚDEZ, C., MORALES-CISNEROS, G., & SÁNCHEZ-GARCÍA, S. (2009). Direct costs associated with the appropriateness of hospital stay in elderly population. *BMC health services research*, 9(1), 151. <https://doi.org/10.1186/1472-6963-9-151>
- PALMER, J. F. (1999). Recreational use of wetlands in Juneau, Alaska. In *Proceedings of the 1999 Northeastern Recreation Research Symposium*, edited by G. Kyle. *Gen Tech. Rep. NE-269*. Newton Square, PA: *USDA, Forest Service*, Northeastern Research Station. pp. 62-66
- PANT, K. P., GAUTAM, J. C., & WALE, E. (2011). Valuation of rice diversity in Nepal: a trait-based approach. *The Economics of Managing Crop Diversity: On-farm Case Studies from the Genetic Resources Policy Initiative*, 45-64. https://www.biodiversityinternational.org/fileadmin/user_upload/online_library/publications/pdfs/Crop_diversity_on-farm/3.Rice_diversity_Nepal.pdf
- SHULTZ, S. D., & LINDSAY, B. E. (1990). The willingness to pay for groundwater protection. *Water Resources Research*, 26(9), 1869-1875. <https://doi.org/10.1029/WR026i009p01869>
- STEVENS, T. H., T. A. MORE, AND R. J. GLASS. (1994). Interpretation and temporal stability of CV bids for wildlife existence: a panel study. *Land Economics*, 70(3): 355–363. <http://www.jstor.org/stable/pdfplus/3146535>
- STHAPIT, B., SUBEDI, A., JARVIS, D., LAMERS, H., RAO, V. R., & REDDY, B. M. C. (2012). Community based approach to on-farm conservation and sustainable use of agricultural biodiversity in Asia. *Indian Journal of Plant Genetic Resources*, 25(1), pp.97-110. <https://hdl.handle.net/10568/34630>
- SUBANTI, S., IRAWAN, B. R. M. B., SASONGKO, G. A. T. O. T., & HAKIM, A. R. (2017). Economic valuation on change of tourism quality in Rawapening, Indonesia: an application of random utility method. In *Journal of Physics: Conference Series*, 824(1), 012037. IOP Publishing.
- TESFAYE, A., MAMO, T., TESFAYE, M., & ASSEFA, C. (2016). *Production, marketing, processing and technology adoption of noug (Guizotia abyssinica) in Central Ethiopia*. Research Report 111. Ethiopian Institute of Agricultural Research (EIAR). doi:[10.13140/RG.2.2.20056.72969](https://doi.org/10.13140/RG.2.2.20056.72969)
- TESHOME, F.B. (2020). Municipal solid waste management in Ethiopia; the gaps and ways for improvement. *Journal of Material Cycles and Waste Management*, pp.1-14.cca. <https://doi.org/10.1007/s10163-020-01118-y>

- TSEHAY, S., ORTIZ, R., JOHANSSON, E., BEKELE, E., TESFAYE, K., HAMMENHAG, C., & GELETA, M. (2020). New transcriptome-based SNP markers for noug (*Guizotia abyssinica*) and their conversion to KASP markers for population genetics analyses. *Genes*, *11*(11), 1373. <https://doi.org/10.3390/genes11111373>
- TYACK, N., & ŠČASNÝ, M. (2018). Social valuation of genebank activities: assessing public demand for genetic resource conservation in the Czech Republic. *Sustainability*, *10*(11), 3997. <https://doi.org/10.3390/su10113997>
- VERNOOY, R., SHRESTHA, P., & STHAPIT, B. (Eds.). (2015). *Community seed banks: origins, evolution and prospects*. Routledge. https://cgspace.cgiar.org/bitstream/handle/10568/68708/Community_Seed_Banks.pdf?sequence=2
- WALLE, Y. (2015). Local community's valuation of ecological conservation benefits of semien mountain national park. *Scholars Journal of Economics, Business and Management* *2* (9): 934–943. <http://saspjournals.com/sjebm>
- WATSON, V., & RYAN, M. (2007). Exploring preference anomalies in double bounded contingent valuation. *Journal of Health Economics*, *26*(3), 463–482. doi: [10.1016/j.jhealeco.2006.10.009](https://doi.org/10.1016/j.jhealeco.2006.10.009)
- YILMA, G. (2019). Wetlands ecosystem service in terms of economic values: A case of Lake Hawassa, southern Ethiopia. *Plants and Environment* (2019) *1*(2): 89-96. <https://plantsandenvironment.peri.org.in/article/13/13-611.pdf>