

## List of references used in the Rapid Evidence Assessment (Step B3) of the EKLIPSE report “Understanding farmer uptake of measures that support biodiversity and ecosystem services in the Common Agricultural Policy (CAP)”

- Alló, M., Loureiro, M.L., Iglesias, E., 2015. Farmers’ Preferences and Social Capital Regarding Agri-environmental Schemes to Protect Birds. *Journal of Agricultural Economics* 66, 672–689. <https://doi.org/10.1111/1477-9552.12104>
- Arata, L., Sckokai, P., 2016. The Impact of Agri-environmental Schemes on Farm Performance in Five E.U. Member States: A DID-Matching Approach. *Land Economics* 92, 167–186. <https://doi.org/10.3368/le.92.1.167>
- Aronsson, H., Hansen, E.M., Thomsen, I.K., Liu, J., Ogaard, A.F., Kankanen, H., Ulen, B., 2016. The ability of cover crops to reduce nitrogen and phosphorus losses from arable land in southern Scandinavia and Finland. *Journal of Soil and Water Conservation* 71, 41–55. <https://doi.org/10.2489/jswc.71.1.41>
- Arponen, A., Heikkinen, R.K., Paloniemi, R., Pöyry, J., Similä, J., Kuussaari, M., 2013. Improving conservation planning for semi-natural grasslands: Integrating connectivity into agri-environment schemes. *Biological Conservation* 160, 234–241. <https://doi.org/10.1016/j.biocon.2013.01.018>
- Aslam, U., Termansen, M., Fleskens, L., 2017. Investigating farmers’ preferences for alternative PES schemes for carbon sequestration in UK agroecosystems. *Ecosystem Services* 27, 103–112. <https://doi.org/10.1016/j.ecoser.2017.08.004>
- Atari, D.O.A., Yiridoe, E.K., Smale, S., Duinker, P.N., 2009. What motivates farmers to participate in the Nova Scotia environmental farm plan program? Evidence and environmental policy implications. *Journal of Environmental Management* 90, 1269–1279. <https://doi.org/10.1016/j.jenvman.2008.07.006>
- Babai, D., Tóth, A., Szentirmai, I., Biró, M., Máté, A., Demeter, L., Szépligeti, M., Varga, A., Molnár, Á., Kun, R., Molnár, Z., 2015. Do conservation and agri-environmental regulations effectively support traditional small-scale farming in East-Central European cultural landscapes? *Biodiversity and Conservation* 24, 3305–3327. <https://doi.org/10.1007/s10531-015-0971-z>
- Baker, D.J., Freeman, S.N., Grice, P.V., Siriwardena, G.M., 2012. Landscape-scale responses of birds to agri-environment management: a test of the English Environmental Stewardship scheme: Evaluating the effects of ES for farmland birds. *Journal of Applied Ecology* 49, 871–882. <https://doi.org/10.1111/j.1365-2664.2012.02161.x>
- Bamière, L., Havlík, P., Jacquet, F., Lherm, M., Millet, G., Bretnagolle, V., 2011. Farming system modelling for agri-environmental policy design: The case of a spatially non-aggregated allocation of conservation measures. *Ecological Economics* 70, 891–899. <https://doi.org/10.1016/j.ecolecon.2010.12.014>
- Barraquand, F., Martinet, V., 2011. Biological conservation in dynamic agricultural landscapes: Effectiveness of public policies and trade-offs with agricultural production. *Ecological Economics* 70, 910–920. <https://doi.org/10.1016/j.ecolecon.2010.12.019>
- Barreiro-Hurlé, J., Espinosa-Goded, M., Dupraz, P., 2010. Does intensity of change matter? Factors affecting adoption of agri-environmental schemes in Spain. *Journal of Environmental Planning and Management* 53, 891–905. <https://doi.org/10.1080/09640568.2010.490058>
- Barreiro-hurle, J., Martínez-Paz, J., Espinosa-Goded, M., 2009. Impact of agri-environmental scheme participation on dry-land cereal farms’ efficiency.
- Bartolini, F., Gallerani, V., Raggi, M., Viaggi, D., 2012. Modelling the Linkages between Cross-Compliance and Agri-Environmental Schemes Under Asymmetric Information: Modelling the Linkages between CC and AES. *Journal of Agricultural Economics* 63, 310–330. <https://doi.org/10.1111/j.1477-9552.2012.00339.x>
- Bartolini, F., Gallerani, V., Viaggi, D., 2011. What do agri-environmental measures actually promote? An investigation on AES objectives for the EU 2000-2006 rural development program. *Spanish Journal of Agricultural Research* 9, 7. <https://doi.org/10.5424/sjar/20110901-223-10>



- Baur, I., Dobricki, M., Lips, M., 2016. The basic motivational drivers of northern and central European farmers. *Journal of Rural Studies* 46, 93–101. <https://doi.org/10.1016/j.jrurstud.2016.06.001>
- Beckmann, V., Eggers, J., Mettepenningen, E., 2009. Deciding how to decide on agri-environmental schemes: the political economy of subsidiarity, decentralisation and participation in the European Union. *Journal of Environmental Planning and Management* 52, 689–716. <https://doi.org/10.1080/09640560902958289>
- Beltrán-Esteve, M., Gómez-Limón, J.A., Picazo-Tadeo, A.J., 2012. Assessing the impact of agri-environmental schemes on the eco-efficiency of rain-fed agriculture. *Spanish Journal of Agricultural Research* 10, 911. <https://doi.org/10.5424/sjar/2012104-3088>
- Birge, T., Herzon, I., 2014. Motivations and experiences in managing rare semi-natural biotopes: A case from Finland. *Land Use Policy* 41, 128–137. <https://doi.org/10.1016/j.landusepol.2014.05.004>
- Birrer, S., Zellweger-Fischer, J., Stoeckli, S., Korner-Nievergelt, F., Balmer, O., Jenny, M., Pfiffner, L., 2014. Biodiversity at the farm scale: A novel credit point system. *Agriculture, Ecosystems & Environment* 197, 195–203. <https://doi.org/10.1016/j.agee.2014.08.008>
- Boardman, J., Bateman, S., Seymour, S., 2017. Understanding the influence of farmer motivations on changes to soil erosion risk on sites of former serious erosion in the South Downs National Park, UK. *Land Use Policy* 60, 298–312. <https://doi.org/10.1016/j.landusepol.2016.10.043>
- Bock, A., Sparks, T.H., Estrella, N., Menzel, A., 2013. Changes in the timing of hay cutting in Germany do not keep pace with climate warming. *Global Change Biology* 19, 3123–3132. <https://doi.org/10.1111/gcb.12280>
- Boncinelli, F., Bartolini, F., Brunori, G., Casini, L., 2016. Spatial analysis of the participation in agri-environment measures for organic farming. *Renewable Agriculture and Food Systems* 31, 375–386. <https://doi.org/10.1017/S1742170515000307>
- Boonstra, W.J., Ahnström, J., Hallgren, L., 2011. Swedish Farmers Talking about Nature - A Study of the Interrelations between Farmers' Values and the Sociocultural Notion of Naturintresse: Swedish farmers talking about nature. *Sociologia Ruralis* 51, 420–435. <https://doi.org/10.1111/j.1467-9523.2011.00547.x>
- Borsotto, P., Henke, R., Macrì, M.C., Salvioni, C., 2008. Participation in rural landscape conservation schemes in Italy. *Landscape Research* 33, 347–363. <https://doi.org/10.1080/01426390802046044>
- Boxall, P.C., Perger, O., Weber, M., 2013. Reverse Auctions for Agri-Environmental Improvements: Bid-Selection Rules and Pricing for Beneficial Management Practice Adoption. *Canadian Public Policy* 39, S23–S36. <https://doi.org/10.3138/CP.39.Supplement2.S23>
- Breustedt, G., Schulz, N., Latacz-Lohmann, U., 2013. Factors affecting Participation and Compensation Requirements in Agri-Environmental Schemes: Insights from a Discrete Choice Experiment.
- Brewer, M.J., Goodell, P.B., 2012. Approaches and Incentives to Implement Integrated Pest Management that Addresses Regional and Environmental Issues. *Annual Review of Entomology* 57, 41–59. <https://doi.org/10.1146/annurev-ento-120709-144748>
- Bright, J.A., Field, R.H., Morris, A.J., Cooke, A.I., Fern, J., Grice, P.V., Peach, W., 2014. Effect of plot type, age and date on seed depletion and bird use of Wild Bird Seed Mixtures in England. *Bird Study* 61, 518–526. <https://doi.org/10.1080/00063657.2014.957641>
- Broch, S.W., Strange, N., Jacobsen, J.B., Wilson, K.A., 2013. Farmers' willingness to provide ecosystem services and effects of their spatial distribution. *Ecological Economics* 92, 78–86. <https://doi.org/10.1016/j.ecolecon.2011.12.017>
- Broch, S.W., Vedel, S.E., 2012. Using Choice Experiments to Investigate the Policy Relevance of Heterogeneity in Farmer Agri-Environmental Contract Preferences. *Environmental and Resource Economics* 51, 561–581. <https://doi.org/10.1007/s10640-011-9512-8>
- Brodová, M., 2009. The agrienvironmental programme in Slovakia, in 2004–2006. *Agricultural Economics (Zemědělská ekonomika)* 55, 102–109. <https://doi.org/10.17221/582-AGRICECON>

- Broughton, R.K., Shore, R.F., Heard, M.S., Amy, S.R., Meek, W.R., Redhead, J.W., Turk, A., Pywell, R.F., 2014. Agri-environment scheme enhances small mammal diversity and abundance at the farm-scale. *Agriculture, Ecosystems & Environment* 192, 122–129. <https://doi.org/10.1016/j.agee.2014.04.009>
- Bryan, B.A., 2013. Incentives, land use, and ecosystem services: Synthesizing complex linkages. *Environmental Science & Policy* 27, 124–134. <https://doi.org/10.1016/j.envsci.2012.12.010>
- Buckley, C., Hynes, S., van Rensburg, T.M., Doherty, E., 2009. Walking in the Irish countryside: landowner preferences and attitudes to improved public access provision. *Journal of Environmental Planning and Management* 52, 1053–1070. <https://doi.org/10.1080/09640560903327690>
- Burgess, M.D., Bright, J.A., Morris, A.J., Field, R.H., Grice, P.V., Cooke, A.I., Peach, W., 2015. Influence of agri-environment scheme options on territory settlement by Yellowhammer (*Emberiza citronella*) and Corn Bunting (*Emberiza calandra*). *Journal of Ornithology* 156, 153–163. <https://doi.org/10.1007/s10336-014-1113-1>
- Burton, R.J.F., Paragahawewa, U.H., 2011. Creating culturally sustainable agri-environmental schemes. *Journal of Rural Studies* 27, 95–104. <https://doi.org/10.1016/j.jrurstud.2010.11.001>
- Burton, R.J.F., Schwarz, G., 2013. Result-oriented agri-environmental schemes in Europe and their potential for promoting behavioural change. *Land Use Policy* 30, 628–641. <https://doi.org/10.1016/j.landusepol.2012.05.002>
- Burton, Rob.J.F., Kuczera, C., Schwarz, G., 2008. Exploring Farmers' Cultural Resistance to Voluntary Agri-environmental Schemes. *Sociologia Ruralis* 48, 16–37. <https://doi.org/10.1111/j.1467-9523.2008.00452.x>
- Calatrava Leyva, J., Franco Martínez, J.A., González Roa, M.C., 2007. Analysis of the adoption of soil conservation practices in olive groves: the case of mountainous areas in Southern Spain. *Spanish Journal of Agricultural Research* 5, 249. <https://doi.org/10.5424/sjar/2007053-246>
- Capitanio, F., Adinolfi, F., Malorgio, G., 2011. What explains farmers' participation in Rural Development Policy in Italian southern region? An empirical analysis.
- Chang, S.-H.-E., Wuepper, D., Heissenhuber, A., Sauer, J., 2017. Investigating rice farmers' preferences for an agri-environmental scheme: Is an eco-label a substitute for payments? *Land Use Policy* 64, 374–382. <https://doi.org/10.1016/j.landusepol.2017.03.014>
- Christensen, T., Pedersen, A.B., Nielsen, H.O., Mørkbak, M.R., Hasler, B., Denver, S., 2011. Determinants of farmers' willingness to participate in subsidy schemes for pesticide-free buffer zones—A choice experiment study. *Ecological Economics* 70, 1558–1564. <https://doi.org/10.1016/j.ecolecon.2011.03.021>
- Concepción, E.D., Fernández-González, F., Díaz, M., 2012. Plant diversity partitioning in Mediterranean croplands: effects of farming intensity, field edge, and landscape context. *Ecological Applications* 22, 972–981. <https://doi.org/10.1890/11-1471.1>
- Dallimer, M., Gaston, K.J., Skinner, A.M.J., Hanley, N., Acs, S., Armsworth, P.R., 2010. Field-level bird abundances are enhanced by landscape-scale agri-environment scheme uptake. *Biology Letters* 6, 643–646. <https://doi.org/10.1098/rsbl.2010.0228>
- Darnhofer, I., Schermer, M., Steinbacher, M., Gabillet, M., Daugstad, K., 2017. Preserving permanent mountain grasslands in Western Europe: Why are promising approaches not implemented more widely? *Land Use Policy* 68, 306–315. <https://doi.org/10.1016/j.landusepol.2017.08.005>
- Davey, C., Vickery, J., Boatman, N., Chamberlain, D., Parry, H., Siriwardena, G., 2010. Regional variation in the efficacy of Entry Level Stewardship in England. *Agriculture, Ecosystems & Environment* 139, 121–128. <https://doi.org/10.1016/j.agee.2010.07.008>
- Davies, B.B., Hodge, I.D., 2006. Farmers' Preferences for New Environmental Policy Instruments: Determining the Acceptability of Cross Compliance for Biodiversity Benefits. *Journal of Agricultural Economics* 57, 393–414. <https://doi.org/10.1111/j.1477-9552.2006.00057.x>
- de Graaff, J., Duran Zuazo, V.-H., Jones, N., Fleskens, L., 2008. Olive production systems on sloping land: Prospects and scenarios. *Journal of Environmental Management* 89, 129–139. <https://doi.org/10.1016/j.jenvman.2007.04.024>
- de Krom, M.P.M.M., 2017. Farmer participation in agri-environmental schemes: Regionalisation and the role of bridging social capital. *Land Use Policy* 60, 352–361. <https://doi.org/10.1016/j.landusepol.2016.10.026>



- de Longueville, F., Tychon, B., Leteinturier, B., Ozer, P., 2007. An approach to optimise the establishment of grassy headlands in the Belgian Walloon region: A tool for agri-environmental schemes. *Land Use Policy* 24, 443–450. <https://doi.org/10.1016/j.landusepol.2006.05.008>
- de Snoo, G.R., Herzon, I., Staats, H., Burton, R.J.F., Schindler, S., van Dijk, J., Lokhorst, A.M., Bullock, J.M., Lobley, M., Wrška, T., Schwarz, G., Musters, C.J.M., 2013. Toward effective nature conservation on farmland: making farmers matter: Toward effective nature conservation on farmland. *Conservation Letters* 6, 66–72. <https://doi.org/10.1111/j.1755-263X.2012.00296.x>
- Dedeurwaerdere, T., Polard, A., Melindi-Ghidi, P., 2015. The role of network bridging organisations in compensation payments for agri-environmental services under the EU Common Agricultural Policy. *Ecological Economics* 119, 24–38. <https://doi.org/10.1016/j.ecolecon.2015.07.025>
- Defrancesco, E., Gatto, P., Runge, F., Trestini, S., 2007. Factors Affecting Farmers? Participation in Agri-environmental Measures: A Northern Italian Perspective. *Journal of Agricultural Economics* 0, 071003055534001-???. <https://doi.org/10.1111/j.1477-9552.2007.00134.x>
- Delattre, T., Pichancourt, J.-B., Burel, F., Kindlmann, P., 2010. Grassy field margins as potential corridors for butterflies in agricultural landscapes: A simulation study. *Ecological Modelling* 221, 370–377. <https://doi.org/10.1016/j.ecolmodel.2009.10.010>
- Delattre, T., Vernon, P., Burel, F., 2013. An agri-environmental scheme enhances butterfly dispersal in European agricultural landscapes. *Agriculture, Ecosystems & Environment* 166, 102–109. <https://doi.org/10.1016/j.agee.2011.06.018>
- Di Falco, S., van Rensburg, T.M., 2008. Making the Commons Work: Conservation and Cooperation in Ireland. *Land Economics* 84, 620–634. <https://doi.org/10.3368/le.84.4.620>
- Dicks, L.V., Hodge, I., Randall, N.P., Scharlemann, J.P.W., Siriwardena, G.M., Smith, H.G., Smith, R.K., Sutherland, W.J., 2014. A Transparent Process for “Evidence-Informed” Policy Making: A process for evidence-informed policy making. *Conservation Letters* 7, 119–125. <https://doi.org/10.1111/conl.12046>
- Dörschner, T., Musshoff, O., 2013. Cost-oriented evaluation of ecosystem services under consideration of income risks and risk attitudes of farmers. *Journal of Environmental Management* 127, 249–254. <https://doi.org/10.1016/j.jenvman.2013.05.010>
- dos Santos, R.F., Antunes, P., Ring, I., Clemente, P., 2015. Engaging Local Private and Public Actors in Biodiversity Conservation: The role of Agri-Environmental schemes and Ecological fiscal transfers: Engaging Local Private and Public Actors in Biodiversity Conservation. *Environmental Policy and Governance* 25, 83–96. <https://doi.org/10.1002/eet.1661>
- Drechsler, M., Johst, K., Ohl, C., Wätzold, F., 2007. Designing Cost-Effective Payments for Conservation Measures to Generate Spatiotemporal Habitat Heterogeneity: Payments for Habitat Heterogeneity. *Conservation Biology* 21, 1475–1486. <https://doi.org/10.1111/j.1523-1739.2007.00829.x>
- Drechsler, M., Johst, K., Wätzold, F., 2017. The cost-effective length of contracts for payments to compensate land owners for biodiversity conservation measures. *Biological Conservation* 207, 72–79. <https://doi.org/10.1016/j.biocon.2017.01.014>
- Ducos, G., Dupraz, P., Bonnieux, F., 2009. Agri-environment contract adoption under fixed and variable compliance costs. *Journal of Environmental Planning and Management* 52, 669–687. <https://doi.org/10.1080/09640560902958248>
- Duesberg, S., Dhubháin, Á.N., O’Connor, D., 2014. Assessing policy tools for encouraging farm afforestation in Ireland. *Land Use Policy* 38, 194–203. <https://doi.org/10.1016/j.landusepol.2013.11.001>
- Dupraz, P., Latouche, K., Turpin, N., 2009. Threshold effect and co-ordination of agri-environmental efforts. *Journal of Environmental Planning and Management* 52, 613–630. <https://doi.org/10.1080/09640560902958164>
- Dutton, A., Edwards-Jones, G., Strachan, R., Macdonald, D.W., 2008. Ecological and social challenges to biodiversity conservation on farmland: reconnecting habitats on a landscape scale. *Mammal Review* 38, 205–219. <https://doi.org/10.1111/j.1365-2907.2008.00125.x>

- Eggers, S., Unell, M., Pärt, T., 2011. Autumn-sowing of cereals reduces breeding bird numbers in a heterogeneous agricultural landscape. *Biological Conservation* 144, 1137–1144. <https://doi.org/10.1016/j.biocon.2010.12.033>
- El Benni, N., Finger, R., 2013. Farmers' adoption of extensive wheat production - Determinants and implications. ETH Zurich. <https://doi.org/10.3929/ethz-b-000060754>
- Emery, S.B., Franks, J.R., 2012. The potential for collaborative agri-environment schemes in England: Can a well-designed collaborative approach address farmers' concerns with current schemes? *Journal of Rural Studies* 28, 218–231. <https://doi.org/10.1016/j.jrurstud.2012.02.004>
- Ernoul, A., Vialatte, A., Butet, A., Michel, N., Rantier, Y., Jambon, O., Burel, F., 2013. Grassy strips in their landscape context, their role as new habitat for biodiversity. *Agriculture, Ecosystems & Environment* 166, 15–27. <https://doi.org/10.1016/j.agee.2012.07.004>
- Espinosa-Goded, M., Barreiro-Hurlé, J., Dupraz, P., 2013. Identifying additional barriers in the adoption of agri-environmental schemes: The role of fixed costs. *Land Use Policy* 31, 526–535. <https://doi.org/10.1016/j.landusepol.2012.08.016>
- Espinosa-Goded, M., Barreiro-Hurlé, J., Ruto, E., 2010. What Do Farmers Want From Agri-Environmental Scheme Design? A Choice Experiment Approach: A Choice Experiment Approach on Agri-Environmental Scheme Design. *Journal of Agricultural Economics* 61, 259–273. <https://doi.org/10.1111/j.1477-9552.2010.00244.x>
- Evans, T.M., Cavers, S., Ennos, R., Vanbergen, A.J., Heard, M.S., 2017. Florally rich habitats reduce insect pollination and the reproductive success of isolated plants. *Ecology and Evolution* 7, 6507–6518. <https://doi.org/10.1002/ece3.3186>
- Ewald, J.A., Aebischer, N.J., Richardson, S.M., Grice, P.V., Cooke, A.I., 2010. The effect of agri-environment schemes on grey partridges at the farm level in England. *Agriculture, Ecosystems & Environment* 138, 55–63. <https://doi.org/10.1016/j.agee.2010.03.018>
- Eyre, M.D., Sanderson, R.A., McMillan, S.D., Critchley, C.N.R., 2016. Crop cover the principal influence on non-crop ground beetle (Coleoptera, Carabidae) activity and assemblages at the farm scale in a long-term assessment. *Bulletin of Entomological Research* 106, 242–248. <https://doi.org/10.1017/S0007485315001054>
- Faria, N., Silva, J., 2010. Habitat selection of the Little Bustard during the beginning of an agricultural year.
- Finger, R., El Benni, N., 2013. Farmers' adoption of extensive wheat production - Determinants and implications. ETH Zurich. <https://doi.org/10.3929/ethz-b-000060754>
- Finn, J.A., Bartolini, F., Bourke, D., Kurz, I., Viaggi, D., 2009. Ex post environmental evaluation of agri-environment schemes using experts' judgements and multicriteria analysis. *Journal of Environmental Planning and Management* 52, 717–737. <https://doi.org/10.1080/09640560902958438>
- Finn, J.A., Ó hUallacháin, D., 2012. A review of evidence on the environmental impact of Ireland's Rural Environment Protection Scheme (REPS). *Biology & Environment: Proceedings of the Royal Irish Academy* 112, 1–24. <https://doi.org/10.3318/BIOE.2011.19>
- Firbank, L.G., Elliott, J., Drake, B., Cao, Y., Gooday, R., 2013. Evidence of sustainable intensification among British farms. *Agriculture, Ecosystems & Environment* 173, 58–65. <https://doi.org/10.1016/j.agee.2013.04.010>
- Fjellstad, W., Mittenzwei, K., Dramstad, W., Øvren, E., 2009. Landscape protection as a tool for managing agricultural landscapes in Norway. *Environmental Science & Policy* 12, 1144–1152. <https://doi.org/10.1016/j.envsci.2009.01.009>
- Fleury, P., Seres, C., Dobremez, L., Nettié, B., Pauthenet, Y., 2015. "Flowering Meadows", a result-oriented agri-environmental measure: Technical and value changes in favour of biodiversity. *Land Use Policy* 46, 103–114. <https://doi.org/10.1016/j.landusepol.2015.02.007>
- Franco, J.A., 2011. Analysis about the participation factors in EU agri-environmental programmes of fight against soil erosion in olive groves.
- Franks, J.R., 2016. An Application of Boundary Organisation Theory to Develop Landscape-scale Conservation in Formal Agri-environment Schemes: Boundary organisations and ecological networks. *Sociologia Ruralis* 56, 48–73. <https://doi.org/10.1111/soru.12059>





- Franzén, F., Dinnézt, P., Hammer, M., 2016. Factors affecting farmers' willingness to participate in eutrophication mitigation — A case study of preferences for wetland creation in Sweden. *Ecological Economics* 130, 8–15. <https://doi.org/10.1016/j.ecolecon.2016.05.019>
- Frondele, M., Lehmann, P., Wätzold, F., 2012. The impact of information on landowners' participation in voluntary conservation programs – Theoretical considerations and empirical evidence from an agri-environment program in Saxony, Germany. *Land Use Policy* 29, 388–394. <https://doi.org/10.1016/j.landusepol.2011.08.003>
- Gachango, F.G., Andersen, L.M., Pedersen, S.M., 2015. Adoption of voluntary water-pollution reduction technologies and water quality perception among Danish farmers. *Agricultural Water Management* 158, 235–244. <https://doi.org/10.1016/j.agwat.2015.04.014>
- Giovanopoulou, E., Nastis, S.A., Papanagiotou, E., 2011. Modeling farmer participation in agri-environmental nitrate pollution reducing schemes. *Ecological Economics* 70, 2175–2180. <https://doi.org/10.1016/j.ecolecon.2011.06.022>
- Grammatikopoulou, I., Pouta, E., Myyrä, S., 2016. Exploring the determinants for adopting water conservation measures. What is the tendency of landowners when the resource is already at risk? *Journal of Environmental Planning and Management* 59, 993–1014. <https://doi.org/10.1080/09640568.2015.1050551>
- Grammatikopoulou, I., Pouta, E., Salmiovirta, M., 2013. A locally designed payment scheme for agricultural landscape services. *Land Use Policy* 32, 175–185. <https://doi.org/10.1016/j.landusepol.2012.10.010>
- Guillem, E.E., Barnes, A., 2013. Farmer perceptions of bird conservation and farming management at a catchment level. *Land Use Policy* 31, 565–575. <https://doi.org/10.1016/j.landusepol.2012.09.002>
- Guillem, E.E., Barnes, A.P., Rounsevell, M.D.A., Renwick, A., 2012. Refining perception-based farmer typologies with the analysis of past census data. *Journal of Environmental Management* 110, 226–235. <https://doi.org/10.1016/j.jenvman.2012.06.020>
- Hammes, V., Eggers, M., Isselstein, J., Kayser, M., 2016. The attitude of grassland farmers towards nature conservation and agri-environment measures—A survey-based analysis. *Land Use Policy* 59, 528–535. <https://doi.org/10.1016/j.landusepol.2016.09.023>
- Hanley, N., 2014. Incentivizing the Provision of Ecosystem Services. *International Review of Environmental and Resource Economics* 7, 299–331. <https://doi.org/10.1561/101.00000064>
- Hauck, J., Schmidt, J., Werner, A., 2016. Using social network analysis to identify key stakeholders in agricultural biodiversity governance and related land-use decisions at regional and local level. *Ecology and Society* 21. <https://doi.org/10.5751/ES-08596-210249>
- Heinz, I., 2008. Co-operative agreements and the EU Water Framework Directive in conjunction with the Common Agricultural Policy. *Hydrology and Earth System Sciences* 12, 715–726. <https://doi.org/10.5194/hess-12-715-2008>
- Hejnowicz, A.P., Rudd, M.A., White, P.C.L., 2016. A survey exploring private farm advisor perspectives of agri-environment schemes: The case of England's Environmental Stewardship programme. *Land Use Policy* 55, 240–256. <https://doi.org/10.1016/j.landusepol.2016.04.005>
- Herzon, I., Mikk, M., 2007. Farmers' perceptions of biodiversity and their willingness to enhance it through agri-environment schemes: A comparative study from Estonia and Finland. *Journal for Nature Conservation* 15, 10–25. <https://doi.org/10.1016/j.jnc.2006.08.001>
- Hodge, I., Reader, M., 2010. The introduction of Entry Level Stewardship in England: Extension or dilution in agri-environment policy? *Land Use Policy* 27, 270–282. <https://doi.org/10.1016/j.landusepol.2009.03.005>
- Holstead, K.L., Kenyon, W., Rouillard, J.J., Hopkins, J., Galán-Díaz, C., 2017. Natural flood management from the farmer's perspective: criteria that affect uptake: Natural flood management from the farmer's perspective. *Journal of Flood Risk Management* 10, 205–218. <https://doi.org/10.1111/jfr3.12129>
- Home, R., Balmer, O., Jahrl, I., Stolze, M., Pfiffner, L., 2014. Motivations for implementation of ecological compensation areas on Swiss lowland farms. *Journal of Rural Studies* 34, 26–36. <https://doi.org/10.1016/j.jrurstud.2013.12.007>

- Huttunen, S., Peltomaa, J., 2016. Agri-environmental policies and 'good farming' in cultivation practices at Finnish farms. *Journal of Rural Studies* 44, 217–226. <https://doi.org/10.1016/j.jrurstud.2016.02.004>
- Hynes, S., Farrelly, N., Murphy, E., O'Donoghue, C., 2008. Modelling habitat conservation and participation in agri-environmental schemes: A spatial microsimulation approach. *Ecological Economics* 66, 258–269. <https://doi.org/10.1016/j.ecolecon.2008.02.006>
- Hynes, S., Garvey, E., 2009. Modelling Farmers' Participation in an Agri-environmental Scheme using Panel Data: An Application to the Rural Environment Protection Scheme in Ireland. *Journal of Agricultural Economics* 60, 546–562. <https://doi.org/10.1111/j.1477-9552.2009.00210.x>
- Inman, A., Winter, M., Wheeler, R., Vrain, E., Lovett, A., Collins, A., Jones, I., Johnes, P., Cleasby, W., 2018. An exploration of individual, social and material factors influencing water pollution mitigation behaviours within the farming community. *Land Use Policy* 70, 16–26. <https://doi.org/10.1016/j.landusepol.2017.09.042>
- Jaime, M.M., Coria, J., Liu, X., 2016. Interactions between CAP Agricultural and Agri-Environmental Subsidies and Their Effects on the Uptake of Organic Farming. *American Journal of Agricultural Economics* 98, 1114–1145. <https://doi.org/10.1093/ajae/aaw015>
- Jones, N., Duarte, F., Rodrigo, I., van Doorn, A., de Graaff, J., 2016. The role of EU agri-environmental measures preserving extensive grazing in two less-favoured areas in Portugal. *Land Use Policy* 54, 177–187. <https://doi.org/10.1016/j.landusepol.2016.01.014>
- Josefsson, J., Lokhorst, A.M., Pärt, T., Berg, Å., Eggert, S., 2017. Effects of a coordinated farmland bird conservation project on farmers' intentions to implement nature conservation practices – Evidence from the Swedish Volunteer & Farmer Alliance. *Journal of Environmental Management* 187, 8–15. <https://doi.org/10.1016/j.jenvman.2016.11.026>
- Kaufmann, P., Zemeckis, R., Skulskis, V., Kairyte, E., Stagl, S., 2011. The Diffusion of Organic Farming in Lithuania. *Journal of Sustainable Agriculture* 35, 522–549. <https://doi.org/10.1080/10440046.2011.579838>
- Kelemen, E., Nguyen, G., Gomiero, T., Kovács, E., Choisis, J.-P., Choisis, N., Paoletti, M.G., Podmaniczky, L., Ryschawy, J., Sarthou, J.-P., Herzog, F., Dennis, P., Balázs, K., 2013. Farmers' perceptions of biodiversity: Lessons from a discourse-based deliberative valuation study. *Land Use Policy* 35, 318–328. <https://doi.org/10.1016/j.landusepol.2013.06.005>
- Kizos, T., Koulouri, M., Vakoufari, H., Psarrou, M., 2010. Preserving Characteristics of the Agricultural Landscape through Agri-Environmental Policies: The Case of Cultivation Terraces in Greece. *Landscape Research* 35, 577–593. <https://doi.org/10.1080/01426397.2010.519434>
- Kovács, E.K., 2015. Surveillance and state-making through EU agricultural policy in Hungary. *Geoforum* 64, 168–181. <https://doi.org/10.1016/j.geoforum.2015.06.020>
- Kuhfuss, L., Préget, R., Thoyer, S., Hanley, N., 2016a. Nudging farmers to enrol land into agri-environmental schemes: the role of a collective bonus. *European Review of Agricultural Economics* 43, 609–636. <https://doi.org/10.1093/erae/jbv031>
- Kuhfuss, L., Préget, R., Thoyer, S., Hanley, N., Coent, P.L., Désolé, M., 2016b. Nudges, Social Norms, and Permanence in Agri-environmental Schemes. *Land Economics* 92, 641–655. <https://doi.org/10.3368/le.92.4.641>
- Kvakkestad, V., Rørstad, P.K., Vatn, A., 2015. Norwegian farmers' perspectives on agriculture and agricultural payments: Between productivism and cultural landscapes. *Land Use Policy* 42, 83–92. <https://doi.org/10.1016/j.landusepol.2014.07.009>
- Lastra-Bravo, X.B., Hubbard, C., Garrod, G., Tolón-Becerra, A., 2015. What drives farmers' participation in EU agri-environmental schemes?: Results from a qualitative meta-analysis. *Environmental Science & Policy* 54, 1–9. <https://doi.org/10.1016/j.envsci.2015.06.002>
- Laukkanen, M., Nauges, C., 2014. Evaluating Greening Farm Policies: A Structural Model for Assessing Agri-environmental Subsidies. *Land Economics* 90, 458–481. <https://doi.org/10.3368/le.90.3.458>
- Le Coent, P., Préget, R., Thoyer, S., 2017. Compensating Environmental Losses Versus Creating Environmental Gains: Implications for Biodiversity Offsets. *Ecological Economics* 142, 120–129. <https://doi.org/10.1016/j.ecolecon.2017.06.008>



- Lehmann, P., Schleyer, C., Wätzold, F., Wüstemann, H., 2009. Promoting Multifunctionality of Agriculture: An Economic Analysis of New Approaches in Germany. *Journal of Environmental Policy & Planning* 11, 315–332. <https://doi.org/10.1080/15239080903033879>
- Lennox, G.D., Armsworth, P.R., 2013. The Ability of Landowners and Their Cooperatives to Leverage Payments Greater Than Opportunity Costs from Conservation Contracts: Landowner Surplus from Conservation Contracts. *Conservation Biology* 27, 625–634. <https://doi.org/10.1111/cobi.12039>
- Lennox, G.D., Armsworth, P.R., 2011. Suitability of short or long conservation contracts under ecological and socio-economic uncertainty. *Ecological Modelling* 222, 2856–2866. <https://doi.org/10.1016/j.ecolmodel.2011.04.033>
- Lennox, G.D., Gaston, K.J., Acs, S., Dallimer, M., Hanley, N., Armsworth, P.R., 2013. Conservation when landowners have bargaining power: Continuous conservation investments and cost uncertainty. *Ecological Economics* 93, 69–78. <https://doi.org/10.1016/j.ecolecon.2013.04.016>
- Lienhoop, N., Brouwer, R., 2015. Agri-environmental policy valuation: Farmers' contract design preferences for afforestation schemes. *Land Use Policy* 42, 568–577. <https://doi.org/10.1016/j.landusepol.2014.09.017>
- Lokhorst, A.M., Staats, H., van Dijk, J., van Dijk, E., de Snoo, G., 2011. What's in it for Me? Motivational Differences between Farmers' Subsidised and Non-Subsidised Conservation Practices: FARMERS' CONSERVATION PRACTICES. *Applied Psychology* 60, 337–353. <https://doi.org/10.1111/j.1464-0597.2011.00438.x>
- Malawska, A., Topping, C.J., Nielsen, H.Ø., 2014. Why do we need to integrate farmer decision making and wildlife models for policy evaluation? *Land Use Policy* 38, 732–740. <https://doi.org/10.1016/j.landusepol.2013.10.025>
- Mante, J., Gerowitt, B., 2009. Learning from farmers' needs: Identifying obstacles to the successful implementation of field margin measures in intensive arable regions. *Landscape and Urban Planning* 93, 229–237. <https://doi.org/10.1016/j.landurbplan.2009.07.010>
- Mante, J., Gerowitt, B., 2007. A survey of on-farm acceptance of low-input measures in intensive agriculture. *Agronomy for Sustainable Development* 27, 399–406. <https://doi.org/10.1051/agro:2007038>
- Matzdorf, B., Lorenz, J., 2010. How cost-effective are result-oriented agri-environmental measures?—An empirical analysis in Germany. *Land Use Policy* 27, 535–544. <https://doi.org/10.1016/j.landusepol.2009.07.011>
- McCracken, M.E., Woodcock, B.A., Loble, M., Pywell, R.F., Saratsi, E., Swetnam, R.D., Mortimer, S.R., Harris, S.J., Winter, M., Hinsley, S., Bullock, J.M., 2015. Social and ecological drivers of success in agri-environment schemes: the roles of farmers and environmental context. *Journal of Applied Ecology* 52, 696–705. <https://doi.org/10.1111/1365-2664.12412>
- McGinlay, J., Gowing, D.J.G., Budds, J., 2017. The threat of abandonment in socio-ecological landscapes: Farmers' motivations and perspectives on high nature value grassland conservation. *Environmental Science & Policy* 69, 39–49. <https://doi.org/10.1016/j.envsci.2016.12.007>
- McKenzie, A.J., Emery, S.B., Franks, J.R., Whittingham, M.J., 2013. Landscape-scale conservation: collaborative agri-environment schemes could benefit both biodiversity and ecosystem services, but will farmers be willing to participate? *Journal of Applied Ecology* n/a-n/a. <https://doi.org/10.1111/1365-2664.12122>
- McWilliam, W., Fukuda, Y., Moller, H., Smith, D., 2017. Evaluation of a dairy agri-environmental programme for restoring woody green infrastructure. *International Journal of Agricultural Sustainability* 15, 350–364. <https://doi.org/10.1080/14735903.2017.1314749>
- Mettepenningen, E., Vandermeulen, V., Delaet, K., Van Huylenbroeck, G., Wailes, E.J., 2013. Investigating the influence of the institutional organisation of agri-environmental schemes on scheme adoption. *Land Use Policy* 33, 20–30. <https://doi.org/10.1016/j.landusepol.2012.12.004>
- Mettepenningen, E., Verspecht, A., Van Huylenbroeck, G., 2009. Measuring private transaction costs of European agri-environmental schemes. *Journal of Environmental Planning and Management* 52, 649–667. <https://doi.org/10.1080/09640560902958206>
- Mewes, M., Drechsler, M., Johst, K., Sturm, A., Wätzold, F., 2015. A systematic approach for assessing spatially and temporally differentiated opportunity costs of biodiversity conservation measures in grasslands. *Agricultural Systems* 137, 76–88. <https://doi.org/10.1016/j.agsy.2015.03.010>



- Meyer, C., Reutter, M., Matzdorf, B., Sattler, C., Schomers, S., 2015. Design rules for successful governmental payments for ecosystem services: Taking agri-environmental measures in Germany as an example. *Journal of Environmental Management* 157, 146–159. <https://doi.org/10.1016/j.jenvman.2015.03.053>
- Micha, E., Areal, F.J., Tranter, R.B., Bailey, A.P., 2015. Uptake of agri-environmental schemes in the Less-Favoured Areas of Greece: The role of corruption and farmers' responses to the financial crisis. *Land Use Policy* 48, 144–157. <https://doi.org/10.1016/j.landusepol.2015.05.016>
- Mouysset, L., Doyen, L., Jiguet, F., 2013. How does economic risk aversion affect biodiversity? *Ecological Applications* 23, 96–109. <https://doi.org/10.1890/11-1887.1>
- Murphy, G., Hynes, S., Murphy, E., O'Donoghue, C., 2014. An investigation into the type of farmer who chose to participate in Rural Environment Protection Scheme (REPS) and the role of institutional change in influencing scheme effectiveness. *Land Use Policy* 39, 199–210. <https://doi.org/10.1016/j.landusepol.2014.02.015>
- Nainggolan, D., Termansen, M., Reed, M.S., Cebollero, E.D., Hubacek, K., 2013. Farmer typology, future scenarios and the implications for ecosystem service provision: a case study from south-eastern Spain. *Regional Environmental Change* 13, 601–614. <https://doi.org/10.1007/s10113-011-0261-6>
- Nettier, B., Dobremez, L., Serés, C., Pauthenet, Y., Orsini, M., Kosmala, L., Fleury, P., 2011. Biodiversity conservation by livestock farmers: Advantages and shortcomings of the agri-environmental scheme "Prairies fleuries."
- Niens, C., Marggraf, R., 2010. Recommendations for increasing the acceptance of agri- Environmental schemes - Results of an empirical study in Lower Saxony.
- Nilsson, F.O.L., 2009. Transaction costs and agri-environmental policy measures: are preferences influencing policy implementation? *Journal of Environmental Planning and Management* 52, 757–775. <https://doi.org/10.1080/09640560903083723>
- O'Rourke, E., Charbonneau, M., Poinso, Y., 2016. High nature value mountain farming systems in Europe: Case studies from the Atlantic Pyrenees, France and the Kerry Uplands, Ireland. *Journal of Rural Studies* 46, 47–59. <https://doi.org/10.1016/j.jrurstud.2016.05.010>
- Pascucci, S., de-Magistris, T., Dries, L., Adinolfi, F., Capitanio, F., 2013. Participation of Italian farmers in rural development policy. *European Review of Agricultural Economics* 40, 605–631. <https://doi.org/10.1093/erae/jbt005>
- Pavlis, E.S., Terkenli, T.S., Kristensen, S.B.P., Busck, A.G., Cosor, G.L., 2016. Patterns of agri-environmental scheme participation in Europe: Indicative trends from selected case studies. *Land Use Policy* 57, 800–812. <https://doi.org/10.1016/j.landusepol.2015.09.024>
- Pe'er, G., Zingrebe, Y., Hauck, J., Schindler, S., Dittrich, A., Zingg, S., Tschardtke, T., Oppermann, R., Sutcliffe, L.M.E., Sirami, C., Schmidt, J., Hoyer, C., Schleyer, C., Lakner, S., 2017. Adding Some Green to the Greening: Improving the EU's Ecological Focus Areas for Biodiversity and Farmers: Evaluation of EU's ecological focus areas. *Conservation Letters* 10, 517–530. <https://doi.org/10.1111/conl.12333>
- Peerlings, J., Polman, N., 2009. Farm choice between agri-environmental contracts in the European Union. *Journal of Environmental Planning and Management* 52, 593–612. <https://doi.org/10.1080/09640560902958131>
- Peerlings, J., Polman, N., 2008. Agri-environmental contracting of Dutch dairy farms: the role of manure policies and the occurrence of lock-in. *European Review of Agricultural Economics* 35, 167–191. <https://doi.org/10.1093/erae/jbn022>
- Penker, M., 2009. Landscape governance for or by the local population? A property rights analysis in Austria. *Land Use Policy* 26, 947–953. <https://doi.org/10.1016/j.landusepol.2008.11.007>
- Polhill, J.G., Gimona, A., Gotts, N.M., 2013. Nonlinearities in biodiversity incentive schemes: A study using an integrated agent-based and metacommunity model. *Environmental Modelling & Software* 45, 74–91. <https://doi.org/10.1016/j.envsoft.2012.11.011>
- Polman, N.B.P., Slangen, L.H.G., 2008. Institutional design of agri-environmental contracts in the European Union: the role of trust and social capital. *NJAS - Wageningen Journal of Life Sciences* 55, 413–430. [https://doi.org/10.1016/S1573-5214\(08\)80029-2](https://doi.org/10.1016/S1573-5214(08)80029-2)



- Power, E.F., Kelly, D.L., Stout, J.C., 2013. Impacts of organic and conventional dairy farmer attitude, behaviour and knowledge on farm biodiversity in Ireland. *Journal for Nature Conservation* 21, 272–278. <https://doi.org/10.1016/j.jnc.2013.02.002>
- Prager, K., Hagemann, N., Schuler, J., Heyn, N., 2011. Incentives and enforcement: The institutional design and policy mix for soil conservation in Brandenburg (Germany). *Land Degradation & Development* 22, 111–123. <https://doi.org/10.1002/ldr.1038>
- Prager, K., Reed, M., Scott, A., 2012. Encouraging collaboration for the provision of ecosystem services at a landscape scale—Rethinking agri-environmental payments. *Land Use Policy* 29, 244–249. <https://doi.org/10.1016/j.landusepol.2011.06.012>
- Prazan, J., Dumbrovsky, M., 2011. Soil conservation policies: Conditions for their effectiveness in the Czech Republic. *Land Degradation & Development* 22, 124–133. <https://doi.org/10.1002/ldr.1066>
- Prazan, J., Theesfeld, I., 2014. The role of agri-environmental contracts in saving biodiversity in the post-socialist Czech Republic. *International Journal of the Commons* 8, 1. <https://doi.org/10.18352/ijc.400>
- Pröbstl-Haider, U., Mostegl, N.M., Kelemen-Finan, J., Haider, W., Formayer, H., Kantelhardt, J., Moser, T., Kapfer, M., Trenholm, R., 2016. Farmers' Preferences for Future Agricultural Land Use Under the Consideration of Climate Change. *Environmental Management* 58, 446–464. <https://doi.org/10.1007/s00267-016-0720-4>
- Proctor, A., Donaldson, A., Phillipson, J., Lowe, P., 2012. Field Expertise in Rural Land Management. *Environment and Planning A: Economy and Space* 44, 1696–1711. <https://doi.org/10.1068/a44352>
- Quillérou, E., Fraser, R., Fraser, I., 2011. Farmer Compensation and its Consequences for Environmental Benefit Provision in the Higher Level Stewardship Scheme: Farmer Compensation and its Consequences for Environmental Provision. *Journal of Agricultural Economics* 62, 330–339. <https://doi.org/10.1111/j.1477-9552.2011.00291.x>
- Ravier, C., Prost, L., Jeuffroy, M.-H., Wezel, A., Paravano, L., Reau, R., 2015. Multi-criteria and multi-stakeholder assessment of cropping systems for a result-oriented water quality preservation action programme. *Land Use Policy* 42, 131–140. <https://doi.org/10.1016/j.landusepol.2014.07.006>
- Raymond, C.M., Bieling, C., Fagerholm, N., Martin-Lopez, B., Plieninger, T., 2016a. The farmer as a landscape steward: Comparing local understandings of landscape stewardship, landscape values, and land management actions. *Ambio* 45, 173–184. <https://doi.org/10.1007/s13280-015-0694-0>
- Raymond, C.M., Reed, M., Bieling, C., Robinson, G.M., Plieninger, T., 2016b. Integrating different understandings of landscape stewardship into the design of agri-environmental schemes. *Environmental Conservation* 43, 350–358. <https://doi.org/10.1017/S037689291600031X>
- Ribeiro, P.F., Santos, J.L., Santana, J., Reino, L., Beja, P., Moreira, F., 2016. An applied farming systems approach to infer conservation-relevant agricultural practices for agri-environment policy design. *Land Use Policy* 58, 165–172. <https://doi.org/10.1016/j.landusepol.2016.07.018>
- Riley, M., 2016. How does longer term participation in agri-environment schemes [re]shape farmers' environmental dispositions and identities? *Land Use Policy* 52, 62–75. <https://doi.org/10.1016/j.landusepol.2015.12.010>
- Riley, M., 2008. Experts in Their Fields: Farmer — Expert Knowledges and Environmentally Friendly Farming Practices. *Environment and Planning A: Economy and Space* 40, 1277–1293. <https://doi.org/10.1068/a39253>
- Riley, M., Sangster, H., Smith, H., Chiverrell, R., Boyle, J., 2018. Will farmers work together for conservation? The potential limits of farmers' cooperation in agri-environment measures. *Land Use Policy* 70, 635–646. <https://doi.org/10.1016/j.landusepol.2017.10.049>
- Rocamora-Montiel, B., Glenk, K., Colombo, S., 2014. Territorial management contracts as a tool to enhance the sustainability of sloping and mountainous olive orchards: Evidence from a case study in Southern Spain. *Land Use Policy* 41, 313–324. <https://doi.org/10.1016/j.landusepol.2014.06.016>
- Rocchi, L., Paolotti, L., Fagioli, F.F., 2017. Defining agri-environmental schemes in the buffer areas of a natural regional park: An application of choice experiment using the latent class approach. *Land Use Policy* 66, 141–150. <https://doi.org/10.1016/j.landusepol.2017.04.033>

- Roellig, M., Sutcliffe, L.M.E., Sammul, M., von Wehrden, H., Newig, J., Fischer, J., 2016. Reviving wood-pastures for biodiversity and people: A case study from western Estonia. *Ambio* 45, 185–195. <https://doi.org/10.1007/s13280-015-0719-8>
- Runhaar, H.A.C., Melman, Th.C.P., Boonstra, F.G., Erisman, J.W., Horlings, L.G., de Snoo, G.R., Termeer, C.J.A.M., Wassen, M.J., Westerink, J., Arts, B.J.M., 2017. Promoting nature conservation by Dutch farmers: a governance perspective. *International Journal of Agricultural Sustainability* 15, 264–281. <https://doi.org/10.1080/14735903.2016.1232015>
- Russi, D., Margue, H., Oppermann, R., Keenleyside, C., 2016. Result-based agri-environment measures: Market-based instruments, incentives or rewards? The case of Baden-Württemberg. *Land Use Policy* 54, 69–77. <https://doi.org/10.1016/j.landusepol.2016.01.012>
- Ruto, E., Garrod, G., 2009. Investigating farmers' preferences for the design of agri-environment schemes: a choice experiment approach. *Journal of Environmental Planning and Management* 52, 631–647. <https://doi.org/10.1080/09640560902958172>
- Samson, G.S., Gardebroek, C., Jongeneel, R.A., 2013. Analysing Dutch dairy farmer behaviour towards the provision of public goods: The added value of an economic simulation experiment. *Land Use Policy* 34, 321–331. <https://doi.org/10.1016/j.landusepol.2013.04.005>
- Santos, R., Clemente, P., Brouwer, R., Antunes, P., Pinto, R., 2015. Landowner preferences for agri-environmental agreements to conserve the montado ecosystem in Portugal. *Ecological Economics* 118, 159–167. <https://doi.org/10.1016/j.ecolecon.2015.07.028>
- Schader, C., Pfiffner, L., Schlatter, C., Stolze, M., 2008. Uptake of agri-environmental measures on organic and conventional farms in Switzerland.
- Schilizzi, S., Latacz-Lohmann, U., 2016. Incentivizing and Tendering Conservation Contracts: The Trade-off between Participation and Effort Provision. *Land Economics* 92, 273–291. <https://doi.org/10.3368/le.92.2.273>
- Schmid, E., Sinabell, F., 2007. On the choice of farm management practices after the reform of the Common Agricultural Policy in 2003. *Journal of Environmental Management* 82, 332–340. <https://doi.org/10.1016/j.jenvman.2005.12.027>
- Schouten, M., Opdam, P., Polman, N., Westerhof, E., 2013. Resilience-based governance in rural landscapes: Experiments with agri-environment schemes using a spatially explicit agent-based model. *Land Use Policy* 30, 934–943. <https://doi.org/10.1016/j.landusepol.2012.06.008>
- Schroeder, L.A., Chaplin, S., Isselstein, J., 2015. What influences farmers' acceptance of agri-environment schemes? An ex-post application of the "Theory of Planned Behaviour" - a quantitative assessment -. *Landbauforschung - applied agricultural and forestry research* 15–28. <https://doi.org/10.3220/LBF1440149868000>
- Schroeder, L.A., Isselstein, J., Chaplin, S., Peel, S., 2013. Agri-environment schemes: Farmers' acceptance and perception of potential 'Payment by Results' in grassland—A case study in England. *Land Use Policy* 32, 134–144. <https://doi.org/10.1016/j.landusepol.2012.10.009>
- Sheridan, H., McMahon, B.J., Carnus, T., Finn, J.A., Anderson, A., Helden, A.J., Kinsella, A., Purvis, G., 2011. Pastoral farmland habitat diversity in south-east Ireland. *Agriculture, Ecosystems & Environment* 144, 130–135. <https://doi.org/10.1016/j.agee.2011.07.011>
- Siebert, R., Berger, G., Lorenz, J., Pfeffer, H., 2010. Assessing German farmers' attitudes regarding nature conservation set-aside in regions dominated by arable farming. *Journal for Nature Conservation* 18, 327–337. <https://doi.org/10.1016/j.jnc.2010.01.006>
- Siebert, R., Toogood, M., Knierim, A., 2006. Factors Affecting European Farmers' Participation in Biodiversity Policies. *Sociologia Ruralis* 46, 318–340. <https://doi.org/10.1111/j.1467-9523.2006.00420.x>
- Soini, K., Aakkula, J., 2007. Framing the biodiversity of agricultural landscape: The essence of local conceptions and constructions. *Land Use Policy* 24, 311–321. <https://doi.org/10.1016/j.landusepol.2006.03.001>
- Šorgo, A., Špur, N., Škornik, S., 2016. Public attitudes and opinions as dimensions of efficient management with extensive meadows in Natura 2000 area. *Journal of Environmental Management* 183, 637–646. <https://doi.org/10.1016/j.jenvman.2016.09.024>



- Stobbelaar, D.J., Groot, J.C.J., Bishop, C., Hall, J., Pretty, J., 2009. Internalization of agri-environmental policies and the role of institutions. *Journal of Environmental Management* 90, S175–S184. <https://doi.org/10.1016/j.jenvman.2008.11.019>
- Sutherland, L.-A., 2011. “Effectively organic”: Environmental gains on conventional farms through the market? *Land Use Policy* 28, 815–824. <https://doi.org/10.1016/j.landusepol.2011.01.009>
- Sutherland, L.-A., 2010. Environmental grants and regulations in strategic farm business decision-making: A case study of attitudinal behaviour in Scotland. *Land Use Policy* 27, 415–423. <https://doi.org/10.1016/j.landusepol.2009.06.003>
- Sutherland, L.-A., Barnes, A., McCrum, G., Blackstock, K., Toma, L., 2011. Towards a cross-sectoral analysis of land use decision-making in Scotland. *Landscape and Urban Planning* 100, 1–10. <https://doi.org/10.1016/j.landurbplan.2010.10.005>
- Sutherland, L.-A., Burton, R.J.F., Ingram, J., Blackstock, K., Slee, B., Gotts, N., 2012. Triggering change: Towards a conceptualisation of major change processes in farm decision-making. *Journal of Environmental Management* 104, 142–151. <https://doi.org/10.1016/j.jenvman.2012.03.013>
- Sutherland, L.-A., Mills, J., Ingram, J., Burton, R.J.F., Dwyer, J., Blackstock, K., 2013. Considering the source: Commercialisation and trust in agri-environmental information and advisory services in England. *Journal of Environmental Management* 118, 96–105. <https://doi.org/10.1016/j.jenvman.2012.12.020>
- Sutherland, L.-A., Toma, L., Barnes, A.P., Matthews, K.B., Hopkins, J., 2016. Agri-environmental diversification: Linking environmental, forestry and renewable energy engagement on Scottish farms. *Journal of Rural Studies* 47, 10–20. <https://doi.org/10.1016/j.jrurstud.2016.07.011>
- Świtek, S., Sawinska, Z., 2017. Farmer rationality and the adoption of greening practices in Poland. *Scientia Agricola* 74, 275–284. <https://doi.org/10.1590/1678-992x-2016-0167>
- Tainio, A., Heikkinen, R.K., Heliölä, J., Hunt, A., Watkiss, P., Fronzek, S., Leikola, N., Lötjönen, S., Mashkina, O., Carter, T.R., 2016. Conservation of grassland butterflies in Finland under a changing climate. *Regional Environmental Change* 16, 71–84. <https://doi.org/10.1007/s10113-014-0684-y>
- Thorsøe, M.H., Graversgaard, M., Noe, E., 2017. The challenge of legitimizing spatially differentiated regulation: Experiences from the implementation of the Danish Buffer zone act. *Land Use Policy* 62, 202–212. <https://doi.org/10.1016/j.landusepol.2016.12.030>
- Toderi, M., Francioni, M., Seddaiu, G., Roggero, P.P., Trozzo, L., D’Ottavio, P., 2017. Bottom-up design process of agri-environmental measures at a landscape scale: Evidence from case studies on biodiversity conservation and water protection. *Land Use Policy* 68, 295–305. <https://doi.org/10.1016/j.landusepol.2017.08.002>
- Toma, L., Mathijs, E., 2007. Environmental risk perception, environmental concern and propensity to participate in organic farming programmes. *Journal of Environmental Management* 83, 145–157. <https://doi.org/10.1016/j.jenvman.2006.02.004>
- Troost, C., Walter, T., Berger, T., 2015. Climate, energy and environmental policies in agriculture: Simulating likely farmer responses in Southwest Germany. *Land Use Policy* 46, 50–64. <https://doi.org/10.1016/j.landusepol.2015.01.028>
- Tzouramani, I., Alexopoulos, G., Kostianis, G., Kazakopoulos, L., 2014. Exploring risk management strategies for organic farmers: A Greek case study. *Renewable Agriculture and Food Systems* 29, 167–175. <https://doi.org/10.1017/S1742170513000057>
- Unay Gailhard, I., Bojnec, Š., 2015. Farm size and participation in agri-environmental measures: Farm-level evidence from Slovenia. *Land Use Policy* 46, 273–282. <https://doi.org/10.1016/j.landusepol.2015.03.002>
- Unay-Gailhard, I., Bojnec, Š., 2016. Sustainable participation behaviour in agri-environmental measures. *Journal of Cleaner Production* 138, 47–58. <https://doi.org/10.1016/j.jclepro.2015.09.003>
- van der Horst, D., 2011. Adoption of payments for ecosystem services: An application of the Hågerstrand model. *Applied Geography* 31, 668–676. <https://doi.org/10.1016/j.apgeog.2010.12.001>

- van der Horst, D., 2007. Assessing the efficiency gains of improved spatial targeting of policy interventions; the example of an agri-environmental scheme. *Journal of Environmental Management* 85, 1076–1087. <https://doi.org/10.1016/j.jenvman.2006.11.034>
- van der Zanden, E.H., Verburg, P.H., Schulp, C.J.E., Verkerk, P.J., 2017. Trade-offs of European agricultural abandonment. *Land Use Policy* 62, 290–301. <https://doi.org/10.1016/j.landusepol.2017.01.003>
- van Dijk, W.F.A., Lokhorst, A.M., Berendse, F., de Snoo, G.R., 2016. Factors underlying farmers' intentions to perform unsubsidised agri-environmental measures. *Land Use Policy* 59, 207–216. <https://doi.org/10.1016/j.landusepol.2016.09.003>
- van Dijk, W.F.A., Lokhorst, A.M., Berendse, F., de Snoo, G.R., 2015. Collective agri-environment schemes: How can regional environmental cooperatives enhance farmers' intentions for agri-environment schemes? *Land Use Policy* 42, 759–766. <https://doi.org/10.1016/j.landusepol.2014.10.005>
- Van Herzele, A., Dendoncker, N., Acosta-Michlik, L., 2011. Mobilisation capacity for agri-environmental management. *Journal of Environmental Management* 92, 1023–1032. <https://doi.org/10.1016/j.jenvman.2010.11.013>
- Van Herzele, A., Gobin, A., Van Gossom, P., Acosta, L., Waas, T., Dendoncker, N., Henry de Frahan, B., 2013b. Effort for money? Farmers' rationale for participation in agri-environment measures with different implementation complexity. *Journal of Environmental Management* 131, 110–120. <https://doi.org/10.1016/j.jenvman.2013.09.030>
- Van Rensburg, T.M., Murphy, E., Rocks, P., 2009. Commonage land and farmer uptake of the rural environment protection scheme in Ireland. *Land Use Policy* 26, 345–355. <https://doi.org/10.1016/j.landusepol.2008.04.002>
- van Vliet, J., de Groot, H.L.F., Rietveld, P., Verburg, P.H., 2015. Manifestations and underlying drivers of agricultural land use change in Europe. *Landscape and Urban Planning* 133, 24–36. <https://doi.org/10.1016/j.landurbplan.2014.09.001>
- van Zanten, B.T., Verburg, P.H., Espinosa, M., Gomez-y-Paloma, S., Galimberti, G., Kantelhardt, J., Kapfer, M., Lefebvre, M., Manrique, R., Piorr, A., Raggi, M., Schaller, L., Targetti, S., Zasada, I., Viaggi, D., 2014. European agricultural landscapes, common agricultural policy and ecosystem services: a review. *Agronomy for Sustainable Development* 34, 309–325. <https://doi.org/10.1007/s13593-013-0183-4>
- Vedel, S.E., Jacobsen, J.B., Thorsen, B.J., 2015. Contracts for afforestation and the role of monitoring for landowners' willingness to accept. *Forest Policy and Economics* 51, 29–37. <https://doi.org/10.1016/j.forpol.2014.11.007>
- Verhulst, J., Kleijn, D., Loonen, W., Berendse, F., Smit, C., 2011. Seasonal distribution of meadow birds in relation to in-field heterogeneity and management. *Agriculture, Ecosystems & Environment* 142, 161–166. <https://doi.org/10.1016/j.agee.2011.04.016>
- Vesterager, J.P., Frederiksen, P., Kristensen, S.B.P., Vadineanu, A., Gaube, V., Geamana, N.A., Pavlis, V., Terkenli, T.S., Bucur, M.M., van der Sluis, T., Busck, A.G., 2016. Dynamics in national agri-environmental policy implementation under changing EU policy priorities: Does one size fit all? *Land Use Policy* 57, 764–776. <https://doi.org/10.1016/j.landusepol.2015.05.014>
- Vesterager, J.P., Lindegaard, K., 2012. The Role of Farm Advisors in Multifunctional Landscapes: A Comparative Study of Three Danish Areas, 1995 and 2008. *Landscape Research* 37, 673–702. <https://doi.org/10.1080/01426397.2012.706031>
- Viaggi, D., Signorotti, C., Marconi, V., Raggi, M., 2015. Do agri-environmental schemes contribute to high nature value farmland? A case study in Emilia-Romagna (Italy). *Ecological Indicators* 59, 62–69. <https://doi.org/10.1016/j.ecolind.2015.01.017>
- Villanueva, Anastasio J., Glenk, K., Rodríguez-Entrena, M., 2017. Protest Responses and Willingness to Accept: Ecosystem Services Providers' Preferences towards Incentive-Based Schemes. *Journal of Agricultural Economics* 68, 801–821. <https://doi.org/10.1111/1477-9552.12211>
- Villanueva, A.J., Gómez-Limón, J.A., Arriaza, M., Rodríguez-Entrena, M., 2015. The design of agri-environmental schemes: Farmers' preferences in southern Spain. *Land Use Policy* 46, 142–154. <https://doi.org/10.1016/j.landusepol.2015.02.009>





- Villanueva, Anastasio J., Gómez-Limón, J.A., Arriaza, M., Rodríguez-Entrena, M., 2015. Assessment of greening and collective participation in the context of agri-environmental schemes: The case of Andalusian irrigated olive groves. *Spanish Journal of Agricultural Research* 13, e0108. <https://doi.org/10.5424/sjar/2015134-7376>
- Villanueva, A.J., Rodríguez-Entrena, M., Arriaza, M., Gómez-Limón, J.A., 2017. Heterogeneity of farmers' preferences towards agri-environmental schemes across different agricultural subsystems. *Journal of Environmental Planning and Management* 60, 684–707. <https://doi.org/10.1080/09640568.2016.1168289>
- Vrdoljak, S.M., Samways, M.J., 2014. Agricultural mosaics maintain significant flower and visiting insect biodiversity in a global hotspot. *Biodiversity and Conservation* 23, 133–148. <https://doi.org/10.1007/s10531-013-0588-z>
- Walder, P., Kantelhardt, J., 2018. The Environmental Behaviour of Farmers – Capturing the Diversity of Perspectives with a Q Methodological Approach. *Ecological Economics* 143, 55–63. <https://doi.org/10.1016/j.ecolecon.2017.06.018>
- Wauters, E., Bielders, C., Poesen, J., Govers, G., Mathijs, E., 2010. Adoption of soil conservation practices in Belgium: An examination of the theory of planned behaviour in the agri-environmental domain. *Land Use Policy* 27, 86–94. <https://doi.org/10.1016/j.landusepol.2009.02.009>
- Welsch, J., Case, B.S., Bigsby, H., 2014. Trees on farms: Investigating and mapping woody re-vegetation potential in an intensely-farmed agricultural landscape. *Agriculture, Ecosystems & Environment* 183, 93–102. <https://doi.org/10.1016/j.agee.2013.10.031>
- Werner, M., Wauters, E., Bijttebier, J., Steinmann, H.-H., Ruyschaert, G., Knierim, A., 2017. Farm level implementation of soil conservation measures: farmers' beliefs and intentions. *Renewable Agriculture and Food Systems* 32, 524–537. <https://doi.org/10.1017/S1742170516000454>
- Westerink, J., Melman, D.C.P., Schrijver, R.A.M., 2015. Scale and self-governance in agri-environment schemes: experiences with two alternative approaches in the Netherlands. *Journal of Environmental Planning and Management* 58, 1490–1508. <https://doi.org/10.1080/09640568.2014.932762>
- Wezel, A., Vincent, A., Nitsch, H., Schmid, O., Dubbert, M., Tasser, E., Fleury, P., Stöckli, S., Stolze, M., Bogner, D., 2018. Farmers' perceptions, preferences, and propositions for result-oriented measures in mountain farming. *Land Use Policy* 70, 117–127. <https://doi.org/10.1016/j.landusepol.2017.10.020>
- Wezel, A., Zipfer, M., Aubry, C., Barataud, F., Heißenhuber, A., 2016. Result-oriented approaches to the management of drinking water catchments in agricultural landscapes. *Journal of Environmental Planning and Management* 59, 183–202. <https://doi.org/10.1080/09640568.2014.1000453>
- Wynne-Jones, S., 2013. Ecosystem Service Delivery in Wales: Evaluating Farmers' Engagement and Willingness to Participate. *Journal of Environmental Policy & Planning* 15, 493–511. <https://doi.org/10.1080/1523908X.2013.788443>
- Yang, A.L., Rounsevell, M.D.A., Wilson, R.M., Haggett, C., 2014. Spatial analysis of agri-environmental policy uptake and expenditure in Scotland. *Journal of Environmental Management* 133, 104–115. <https://doi.org/10.1016/j.jenvman.2013.11.038>
- Zimmermann, A., Britz, W., 2016. European farms' participation in agri-environmental measures. *Land Use Policy* 50, 214–228. <https://doi.org/10.1016/j.landusepol.2015.09.019>
- Zinngrebe, Y., Pe'er, G., Schueler, S., Schmitt, J., Schmidt, J., Lakner, S., 2017. The EU's ecological focus areas – How experts explain farmers' choices in Germany. *Land Use Policy* 65, 93–108. <https://doi.org/10.1016/j.landusepol.2017.03.027>