

Andrew Barnes  
Head of Department of Rural Economy, Environment and Society  
Scotland's Rural College  
Postal address:  
Kings Buildings  
Peter Wilson Building  
West Mains Road  
Edinburgh  
EH9 3JG



United Kingdom  
Email: [andrew.barnes@sruc.ac.uk](mailto:andrew.barnes@sruc.ac.uk)

## Research interests

Agricultural Economics; Farmer Behaviours; Efficiency and Sustainability Metrics; Farm Management Decision-Making; Ex-ante and ex-post impact assessment

## Projects

### **Adoption of Nutrient MGT plans by EU Farmers & the impact on GHG Emissions**

Eory, V. & Barnes, A.  
IPSOS IBERIA  
23/01/19 → 22/02/20

### **Advanced technologies for efficient crop management: a participatory approach with application at farm scale**

Hoad, S., Borthwick, F., Rees, B., Barnes, A., Crawford, C., Florence, A., Buckingham, S., Buckingham, S., Miller, S., Fortune, J., Vigors, B., Domalazek, N., Rzepka, A. & Redpath, R.  
Biotechnology and Biological Sciences Research Council  
1/12/16 → 30/11/20

### **Arthropod conservatin in agricultural landscapes : modelling farmer decision-making and biodiversity outcomes**

Barnes, A.  
University of Edinburgh  
1/09/17 → 30/08/23

### **Bean breeding and Adoption in changing climates in post-conflict COlombia (BACO)**

Barnes, A. & Botero Degiovanni, H.  
1/04/18 → 31/03/19

### **Bean breeding for adaptation to a changing climate and post-conflict Colombia**

Barnes, A. & Botero Degiovanni, H.  
1/04/19 → 30/09/21

### **Benchmarking sustainable intensification of farms using AgRE Calc, DEA and ScotFarm**

Shrestha, S., Vosough Ahmadi, B., Thomson, S., Spencer, M., Barnes, A., Stott, A., Bell, J., Vosough Ahmadi, B., Spencer, M., Barnes, A., Inman, G. & Toma, L.  
SFC GRANT DUMMY CLIENT  
1/03/18 → 31/05/20

### **Brexit\_Enhanced need for policy advice**

Barnes, A., Atterton, J., Thomson, S. & McCracken, D.  
1/10/18 → 31/03/19

### **CAP Intentions Survey 2018**

Barnes, A., Thomson, S., Spencer, M. & McMillan, J.  
1/02/18 → 30/04/19

## Research outputs

Botero Degiovanni, HB, Barnes, AP, Rios, D, Perez, L & Ramirez-Villegas, J 2021, 'The determinants of common bean variety selection and diversification in Colombia', *Ecological Economics*, vol. 190, 107181. <<http://10.1016/j.ecolecon.2021.107181>>

Barnes, AP, Botero Degiovanni, H, Perez, L, Rios, D & Ramirez-Villegas, J 2021, 'Defining interpretative communities towards climate change: Examining growers of common bean in Latin America', *International Journal of Agricultural Sustainability*. <https://doi.org/10.1080/14735903.2021.1936419>

Barnes, AP, Muoni, T, Öborn, I, Bergkvist, G, Nziguheba, G, Watson, CA & Vanlauwe, B 2021, 'Measuring household legume cultivation intensity in Sub-Saharan Africa', *International Journal of Agricultural Sustainability*, vol. 19, no. 3-4, pp. 319-334. <https://doi.org/10.1080/14735903.2021.1910418>

Botero, H, Barnes, A, Perez, L, Rios, D & Ramirez-Villegas, J 2021, 'Classifying climate change perceptions of bean breeders in Santander-Colombia', *Climate and Development*, pp. 1-14. <https://doi.org/10.1080/17565529.2020.1848782>

Leinonen, I, Iannetta, PPM, MacLeod, M, Rees, RM, Russell, W, Watson, CA & Barnes, AP 2020, 'Regional land use efficiency and nutritional quality of protein production', *Global Food Security*, vol. 26, 100386. <https://doi.org/10.1016/j.gfs.2020.100386>

Barnes, AP, Thomson, SG & Ferreira, JG 2020, 'Disadvantage and economic viability: characterising vulnerabilities and resilience in upland farming systems', *Land Use Policy*, vol. 96, 104698. <https://doi.org/10.1016/j.landusepol.2020.104698>

Thompson, B, Toma, L, Barnes, AP & Revoredo-Giha, C 2020, 'Date-label use and the waste of dairy products by consumers', *Journal of Cleaner Production*, vol. 247, 119174. <https://doi.org/10.1016/j.jclepro.2019.119174>

Liu, J, Toma, L, Barnes, AP & Stott, AW 2019, 'Farmers' uptake of animal health and welfare technological innovations. Implications for animal health policies', *Frontiers in Veterinary Science*, vol. 6, 410, pp. 1-10. <https://doi.org/10.3389/fvets.2019.00410>

Muoni, T, Koomson, E, Öborn, I, Marohn, C, Watson, CA, Bergkvist, G, Barnes, AP, Cadisch, G & Duncan, A 2019, 'Reducing soil erosion in smallholder farming systems in east Africa through the introduction of different crop types', *Experimental Agriculture*. <https://doi.org/10.1017/S0014479719000280>

Sutherland, L-A, Barlagne, C & Barnes, AP 2019, 'Beyond 'hobby farming': towards a typology of non-commercial farming', *Agriculture and Human Values*, vol. 36, no. 3, pp. 475-493. <https://doi.org/10.1007/s10460-019-09930-5>