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Casglu Ymchwil
Amaethyddol Data Gweinyddol

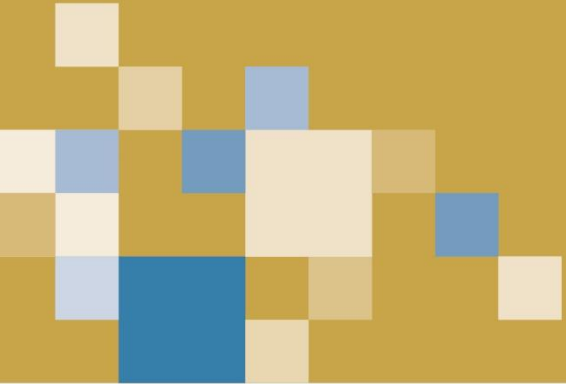
AD | ARC

Administrative Data
Agricultural Research Collection

Paul Caskie, AD|ARC Principal Investigator, AFBI

Sian Morrison-Rees, AD|ARC Co-Investigator and Lead Researcher, SAIL,
University of Swansea

Rural England Stakeholder Group 5th March 2024



ADIARC

Administrative Data
Agricultural Research Collection



Introduction

The AD|ARC Project

- UK Administrative Data Research Programme £105M 2021-26
- Links farm business data with personal data for farmers and farm households at population level to conduct research
- Data held in Trusted Research Environments around the UK

AD|ARC project aims

- Create independent datasets in four UK nations
- Harmonise when possible to allow for comparison and aggregation
- Control group(s) of non-farm rural households
- Four broad themes:

Socio-Demographic:	are farmers and farm households meaningfully different?
Health and wellbeing:	are specific health conditions more or less prevalent or severe for farmers?
Prosperity/resilience:	is there a different level of educational attainment for farmers? how dependent are farm households on farm income and subsidies?
Environment and place:	are farmers/farm households in agri-environment schemes different from other farmers?

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Methods

Anonymised Data Linking and Controls

- Link existing government datasets so information relating to the same person, household, organisation, place or event can be connected
- Legal gateways for use of data for research must exist
- Identifying information is removed
- Record for each individual or household
- Conduct research on de-identified linked data in secure research space

Secure Data Provisioning

- Linked data provisioned to Trusted Research Environments
 - Scotland - Electronic Data Research and Innovation Service (eDRIS)
 - Wales - The Secure Anonymised Information Linkage (SAIL) platform.
 - England – Secure Research Service (SRS) Office for National Statistics
 - NI - Northern Ireland Statistics and Research Agency (NISRA)
- Project approval required for each UK nation
- Researchers must complete training to gain access
- All outputs scrutinised by TRE for disclosure risk

Datasets Used - Wales

Agricultural Data

- EU Farm Structure Survey 2010 (crop area, livestock numbers, labour)
- Rural Payments - Subsidy and Claimant data (type and value)

Population data

- Census of Population 2011 (individual and household)
- Welsh Demographic Survey Data

Additional Datasets

- Inter-Departmental Business Register - planned (Business Turnover)
- Education Data (Attainment, attendance)
- Health Data (Primary and secondary care)

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Progress to Date

AD|ARC Dataset Wales

- Individual level spine (approx. 50,000 farm household members):
 - Individual census data (highest level of education, main occupation, economic activity)
 - Selected EU FSS variables (farm type, farm size)
 - Linking to both health and education data
- Household level spine (approx. 18,000 farm households) :
 - Census household data (e.g. number of adults, car/van availability, central heating)
 - EU FSS (farm activity) and Rural Payments (farm payments)
 - Value Added Tax business (turnover) (planned)
 - Extending to household income – based on employment code and average earnings
- Matched control groups – non-farming rural households

Early Results – Wales – Socio-demographics

- Circa 18,000 farm households in scope
- Compared to non-farm rural households:
 - Approximately 25% bigger, with an average of 2.82 members
 - Less likely a single occupant, but when occurs more likely to be a single male
 - More often found to have three generations living together
 - More likely to have children present, both dependent and adult
- [Data Insight: Are farm households different? Some evidence from Wales - ADR UK](#)

Early Results – Wales – Off-farm Employment

- Circa 18,000 farm households in scope
- Population can be disaggregated into three main groups:
 - Households containing no main occupation farmers (%)
 - Households containing at least one main occupation farmer and one main occupation other than farming (%)
 - Households containing only main occupation farmers (%)
- Investigating the difference between the three groups by household socio-demographics (size, age, etc.) and farm business characteristics (size and type)
- We have used ASHE (Annual Survey of Hours and Earnings) data to calculate the estimated off-farm income for each household

Research Collaboration

- Ambition to build a network of AD|ARC users
- Currently inviting interesting parties to contact us for potential research collaborations using the datasets
- Included in ADR UK Fellowship Call 2024 – currently open
- Further information is available at the ADR UK webpage:
[Administrative Data | Agricultural Research Collection – England and Wales - ADR UK](#)

Any questions?

Paul Caskie, Project Principal Investigator, Agri-Food & Biosciences Institute (AFBI), N Ireland

paul.caskie@afbini.gov.uk

Sian Morrison-Rees, Project Co-Investigator and Lead Researcher, ADR Wales, Swansea University

s.morrison-rees@swansea.ac.uk