Studies in Agricultural Economics

Volume 115, Number 2

	Kutató Intézet, Budapest, Hungary
Chairman of the POTORI Norbert	Editorial Board
	Kutató Intézet, Budapest, Hungary
Editorial Board	
Sabine BAUM Halle (Salle), Ge	rmany
Štefan BOJNEC	amany
	norskem, Koper, Slovenia
Richard M. CRUSI	
	ersity, Ames, USA
Sophia DAVIDOVA	
Thomas DAX	nt, Canterbury, UK
	r Bergbauernfragen, Wien, Austria
FARKASNÉ FEKE	
	retem, Gödöllő, Hungary
FEHÉR Alajos	5.1 W
FELFÖLDI János	em, Debrecen, Hungary
	em, Debrecen, Hungary
FERTŐ Imre	, =,,
	nus Egyetem, Budapest, Hungary
Matthew GORTON	
University of Ne David HARVEY	wcastle, Newcastle, UK
	wcastle, Newcastle, UK
Wim J. M. HEIJMA	
Wageningen Uni	versity, Wageningen, The Netherlands
Carmen HUBBAR	
University of Ne Mária KADLEČÍK	wcastle, Newcastle, UK
	OVA hospodárska univerzita v Nitre, Slovakia
KAPRONCZAI Ist	
Agrárgazdasági l	Kutató Intézet, Budapest, Hungary
KEREKES Kinga	
Universitatea Ba MAGDA Róbert	bes-Bolyai, Cluj-Napoca, Romania
	őiskola, Gyöngyös, Hungary
Jan W. OWSIŃSKI	in the state of th
	ystemowych, PAN, Warszawa, Poland
POPP József	AL 1/ : D. L W
Włodzimierz REM	nyos Akadémia, Budapest, Hungary
	iki Rolnictwa i Gospodarki
	PIB, Warszawa, Poland
SZABÓ G. Gábor	
	ág-Tudományi Intézet, Budapest, Hungary
SZÉKELY Csaba	rszági Egyetem, Sopron, Hungary
Nyugat-Magyaro Vladimír SZÉKEL	
	ıv, SAV, Bratislava, Slovakia
TAKÁCSNÉ GYÖ	RGY Katalin
	őiskola, Gyöngyös, Hungary
TÓTH József	Eton Dodan ()
Hillka VIHINEN	nus Egyetem, Budapest, Hungary
	imus, Helsinki, Finland

Agrárgazdasági Kutató Intézet, Budapest, Hungary

Agrárgazdasági Kutató Intézet, Budapest, Hungary

Technical Editor

BARNAFI László

Contents

FOREWORD

ARTICLES

The effect of age on students' conceptions of agriculture Gabriele FRÖHLICH, Marlen GOLDSCHMIDT and Franz X. BOGNER	61
Smartness, culture and local authority ICT awareness: an empirical enquiry Jan W. OWSINSKI, Aneta M. PIELAK and Krzysztof SĘP	68
Old institutions, new challenges: the agricultural knowledge system in Hungary NEMES Gusztáv and Christopher HIGH	76
Rural Renaissance: an integral component of regional economic resilience Andrew F. FIELDSEND	85
Village shops: outdated or revived model? Relevance for local supply, social functions and economic viability Patrick KÜPPER and Winfried EBERHARDT	92
Application of spatial econometric approach in the evaluation of rural development policy: the case of measure	
Modernisation of agricultural holdings Tanja TRAVNIKAR and Luka JUVANČIČ	98
Social capital and governance for sustainable rural development Frank M. GO, Mariapina TRUNFIO and Maria DELLA LUCIA	104
Rural Development experiences in Germany: opportunities and obstacles in fostering smart places through LEADER Kim POLLERMANN, Petra RAUE and Gitta SCHNAUT	111

ABSTRACTS OF AKI PUBLICATIONS INFORMATION FOR AUTHORS



Európai Mezőgazdasági Vidékfejlesztési Alap: a vidéki területekbe beruházó Európa



A projekt a Magyar Nemzeti Vidéki Hálózat Elnökségének értékelése és javaslata alapján, az Európai Mezőgazdasági és Vidéktejlesztési Alap társfinanszírozásában, a Nemzeti Vidékfejlesztési Program Irányító Hatóságának jóváhagyásával valósul meg.

© Agrárgazdasági Kutató Intézet, 2013 1463 Budapest, POB 944, Hungary https://www.aki.gov.hu/studies HU ISSN 1418 2106 (printed) HU ISSN 2063 0476 (electronic) Established 1962

Foreword

The Europe 2020 strategy of the European Union (EU) is focused on delivering growth that is: *smart*, through more effective investments in education, research and innovation; *sustainable*, thanks to a decisive move towards a low-carbon economy; and *inclusive*, with a strong emphasis on job creation and poverty reduction¹.

Amongst recent developments on this subject, two have had a special influence on this thematic issue of *Studies in Agricultural Economics*.

Firstly, the EU's Rural Development Policy for the programming period 2014-2020 will have six priorities that are intended to ensure a focused contribution of the Rural Development Programmes towards the attainment of the Europe 2020 targets. These are:

- Fostering knowledge transfer in agriculture, forestry and rural areas;
- Enhancing the competitiveness of all types of agriculture and enhancing farm viability;
- Promoting food chain organisation and risk management in agriculture;
- Restoring, preserving and enhancing ecosystems dependent on agriculture and forestry;
- Promoting resource efficiency and supporting the shift towards a low carbon and climate-resilient economy in the agriculture, food and forestry sectors;
- Promoting social inclusion, poverty reduction and economic development in rural areas.

Secondly, the Regional Studies Association European Conference that was held in Delft, the Netherlands, in May 2012 included several contributions that explored smartness, sustainability and inclusiveness in rural areas in a broader regional context. Five of the papers in this thematic issue originated from presentations made at that conference.

The first three papers in this issue look at different aspects of the flow of knowledge in rural areas, an important contributor to 'smartness'. Fröhlich *et al.* surveyed German school children and found that most lack an understanding of the impact of agriculture on the environment. They conclude that agricultural education in Germany does not adequately teach modern agricultural practices or the importance of modern agricultural challenges.

From their study of local self-governmental authority

websites in Mazowsze in Poland, Owsiński *et al.* identified dramatic differences in the extent of 'local networks', as quantified by local website links, and proposed that an important determinant is the broadly conceived culture, including the 'smartness' aspect. An analysis by Nemes and High of Hungarian AKS institutions is the third contribution. It examines the most important current trends and problems limiting the effectiveness of the current AKS institutions and introduces the concept of LINSA and its relevance in the Hungarian context.

The next three papers address the topic of 'sustainability' in rural areas. Fieldsend reviewed the influence of factors that affect labour supply, and those that affect enterprise and economic dynamism, on rural employment potential. He recommends that a regional development strategy must include a specific 'Rural Renaissance' component if regional economic resilience is to be achieved.

The limited contributions to supply and social life, and the weak economic viability of many village shops in Germany, are shown by Küpper and Eberhardt. Permanent public and civic support is required to sustain many small shops in small villages. Travnikar and Juvančič look at the impact in Slovenia of EU funding disbursed under the measure *Modernisation of agricultural holdings*. Their results confirm a positive relationship between farm investment support and agricultural labour productivity. Differences in labour productivity between different farm types are also demonstrated.

'Inclusiveness', in terms of community engagement in rural areas, is the subject of the final two papers. Go *et al.* show how embedded governance, which builds on social capital, guided by institutional policy, enabled three villages in the province of Trentino, Italy, to pull together their resources within the frame of one networked destination formation. Finally, the impact of LEADER on improving 'smart' places is discussed by Pollerman *et al.* From the findings of the evaluation of Rural Development Programmes in Germany they conclude that LEADER focuses on establishing preconditions for innovation and not on implementing innovations themselves.

The theme and purpose of this issue of *Studies in Agricultural Economics* are consistent with the aims of the Hungarian National Rural Network (MNVH) action plan. These are, namely, the social and economic development of the countryside, and to develop inter-regional and international relationships in a practice-oriented manner.

EUROPE 2020: A strategy for smart, sustainable and inclusive growth. COM(2010) 2020 final. Brussel: European Commission.

Andrew Fieldsend Budapest, May 2013

Reviewers

Dipl.-Geogr. Sabine BAUM ● Dr. FARKASNÉ FEKETE Mária ● Dr Matthew GORTON ● Dr Lionel HUBBARD
Prof. Dr. Mária KADLEČÍKOVÁ ● Dr. KATONÁNÉ KOVÁCS Judit ● Dr. KEREKES Kinga ● Prof. Sirpa KURPPA ● Dr. MAGDA Róbert
Dr. Małgorzata MICHALEWSKA-PAWLAK ● Prof. Dr. SZÉKELY Csaba ● Dr. Vladimír SZÉKELY ● Dr. TAKÁCSNÉ GYÖRGY Katalin

Editorial Advisory Panel

CSÁKI Csaba, Budapesti Corvinus Egyetem, Budapest, Hungary • KISS Judit, MTA Világgazdasági Kutatóintézet, Budapest, Hungary LEHOTA József, Szent István Egyetem, Gödöllő, Hungary • NÁBRÁDI András, Debreceni Egyetem, Debrecen, Hungary SCHMIDT Rezső, Nyugat-Magyarországi Egyetem, Sopron, Hungary • SZABÓ Gábor, Magyar Tudományos Akadémia, Budapest, Hungary SZAKÁLY Zoltán, Kaposvári Egyetem, Kaposvár, Hungary • VÉHA Antal, Szegedi Tudományegyetem, Szeged, Hungary

Abstracts of AKI publications

The results of AKI's research work are presented in detail in a series of Hungarian language publications. English language abstracts are reproduced below. The publications may be downloaded from the AKI website (www.aki.gov.hu) or requested in printed form from aki@aki.gov.hu.

BÍRÓ Szabolcs and SZÉKELY Erika

Opportunities to increase employment in agriculture in the rural areas of Hungary

Agroeconomic Book, published 2012

In Hungarian agriculture, which plays an important role in rural employment, the signs of gradual restructuring can be seen. In the last decade the rural areas of Hungary – apart from showing significant regional and sectoral divergences – could be characterised by high unemployment levels and long-term structural unemployment, low levels of qualifications, wages below the national average, an increasing number of people applying for social benefits and also by 'invisible incomes' linked with tax evasion and black and grey employment. By analysing the labour market of rural areas and the agricultural sector as well as the opportunities and the ways of increasing employment in agriculture we concluded that regarding from the view of the national economy. Most importantly, the

market-based employment can be made economically more viable, but an increase in the economic and social activity of the population in a disadvantageous position is also needed to encourage their integration into the labour market, and this can be achieved through socially-based employment creation. Increased employment in rural areas cannot be based exclusively on primary agricultural activities. Constant growth can be ensured only by developments that are better adjusted to the demands of the economic environment and by stabilising the entire food chain. In rural areas that are in the most disadvantageous situation in terms of social and economic conditions, the emphasis should be placed on the self-supply and subsistence functions of agriculture.

VÁGÓ Szabolcs (ed.)

Hungarian Food and Agricultural Statistics 2011

Agroeconomic Information, published 2012

The publication provides information on the results achieved in 2011 in agriculture, forestry and food industry. We assured the comparability of time-series in connection with the pocketbooks published in the recent years. Besides the national and branch indicators and data, the principal agricultural data are also given in details by counties. The

international data are suitable to demonstrate the main trends. The published data are compiled on the basis of the publications of the Central Statistical Office, EUROSTAT, the Food and Agricultural Organization (FAO) and the Research Institute of Agricultural Economics.

MÁCSAI Éva, KUJÁNI Katalin, JUHÁSZ Anikó, HAMZA Eszter and GYÖRE Dániel

The current performance and opportunities of farm-direct sales in the food supply chain in Hungary

Agroeconomic Study, published 2012

The study examined alternative, direct to consumers sales channels of farmers in the fruits and vegetables, wine and dairy sectors. Our study showed that the new Hungarian legislation relating to farmers' direct sales from 2010 improved the farmers' opportunities. The main benefits of direct selling were: daily income (cash flow); increased profitability; a direct trust relationship with consumers; and reduced dependence on the buying power of retailers. The main limiting factors of direct sales were: geographical and social limitations on demand; demand fluctuates so it is dif-

ficult to plan; increasing competition in this form of sales; the legal requirements and economic conditions of direct sales are investment-intensive; the administrative burdens are numerous and costly; it is a time consuming and labour-intensive activity; and farmers were mistrustful of co-operation. Our analysis showed that farmers direct sales in different sectors had common advantages and disadvantages, thus it is possible to work out a comprehensive programme to support the development of short food supply chains within the framework of the Common Agricultural Policy.

ISÉPY Anett, MÁNDI-NAGY Dániel, NÉMETH Noémi and STUMMER Ildikó

Experiences of the EU school milk and school fruit schemes in Hungary

Agroeconomic Book, published 2012

The goals of the school milk and school fruit schemes in Hungary are to stabilise the market and to provide children with healthy products, so encouraging healthy dietary habits and to improve their health and quality of life. The purpose of our study was to describe and to evaluate the school milk and school fruit schemes, to introduce the reader to the legislative background and to describe developments in actual payments in Hungary and in the European Union. We intended to answer the following questions: firstly, why do the schools participate in the scheme and, secondly, what is the experience gained. We can conclude that the preliminary expectations of the schools participating in the school milk and school fruit schemes and covered by the survey were not

met. The reason is that the goals of the schemes can only be reached in the longer term since the effects of the school milk and school fruit on the dietary habits and consumption can only be seen later. On the basis of our analysis we can make the following recommendations: the school fruit scheme should be expanded, consumption of school milk should be encouraged, the accompanying measures should be enlarged and extended also to the school milk scheme, the parents should be included in the accompanying measures, the schemes should be disseminated in disadvantaged regions, the efficiency of transportation should be increased and the administrative burden should be reduced. Finally, we have also determined the possible directions of further research.

FEKETE Géza and KISS György (eds)

Production data for the major Hungarian food products, 2011

Agroeconomic Information, published 2013

This publication presents data, for a wide selection of products, on the production costs and sales income of the food processing industry in 2011 compared to the previous year. Firstly, the price changes for the major food product groups are briefly summarised and, secondly, tabulated data for individual food products are presented. These data show that in 2011 the production costs of meat products generally increased. This is true for all products as the manufacturers aimed to compensate for their growing production costs with some increases in sales prices. For a number of meat industry products the increase in the sales price did not compensate

for the increase in the production cost in 2011, so the profits were lower. In the poultry, dairy, milling and baking industries, as well as in the production of pasta products, increases compared to the previous period in raw material costs, and more or less in total production costs too, can be observed. The results usually varied between products within sectors, with the exception of the milling industry, for example, where improved results were associated with all of the products for which data are presented. A positive example is pasta production, where all of the presented products again generated a profit, as in the previous year.

TANÍTÓ Dezső, LÁMFALUSI Ibolya, TÓTH Kristóf, PÉTER Krisztina, FELKAI Beáta Olga and VARGA Tibor

The effects of changing the value added tax on agricultural and food products in Hungary

Agroeconomic Book, published 2013

According to agricultural associations, fair market players and professional assessments the black market has increased greatly in the Hungarian agri-food sector, causing huge moral and financial losses for the honest players in the economy and for the state budget. The dominant opinion is that one of the main drivers of the spread of the black market in the sector is the high rates of value added tax (VAT) applied to agri-food products, which damage the competitive position of the sector and destroy market relationships and social moral. To overcome these negative implications a considerable reduction in the VAT rates is needed, at least in the case of the basic food products. The analysis of the Hungarian situation as well as the review of practices across

the European Union (EU) shows that VAT rates are too high in Hungary in comparison to VAT rates in other EU Member States and the domestic economic conditions. Consequently this study examines the possibilities and effects of a reduction in VAT rates for food products in the light of international experiences and national possibilities. Our conclusion is that in the case of basic food, which accounts for 50 per cent of total food consumption, the government should reduce the VAT rate. Taking into account EU VAT regulations, internal budgetary constraints and favourable economic effects, we consider a reduction of the preferential VAT rate to 9-14 per cent to be feasible, assuming that the standard VAT rate remains unchanged at 27 per cent.

RADÓCZNÉ KOCSIS Terézia

The market prospects for some promising fruit species (walnut, pear, apricot, cherry)

Agroeconomic Study, published 2012

This study begins by presenting an overview of the problems, risks, employment, and cost and income ratios of walnut, apricot, pear and cherry production in Hungary. It describes the trends in the uses of these products, especially the potential for fresh consumption in Hungary and for Hungarian exports. It also reviews global and European Union production and trade, and the main import markets of these species. The potential for the development of production in these sectors, based on the market demand, conditions and commercial organisations, was assessed. The Hungarian market is small and price sensitive, and the solvent demand is low because of the indebtedness of the population. Therefore more attention should be given to the European market. The export of almost all products is presently concentrated in only

2-3 foreign markets. The external market situation of walnut is more favourable than that of the other three species. Hungarian washed walnuts with shells is a special premium product and exports account for 7-10 per cent of Hungarian production. Part of the production is exported to retail stores abroad and this category is promising because the store sales are continuously growing. The main market for Hungarian pears is Finland but, additionally, Hungary should penetrate the eastern European market. For Hungarian exports to be more competitive, storage capacity should be further developed and winter varieties should be planted. World production of sweet cherries has grown continuously in the past ten years. Exports of Hungarian cherries are also increasing and the main markets are Russia, Germany and Austria.

KEMÉNY Gábor, VARGA Tibor and FELKAI Beáta

The effects of weather risks on micro-regional insurance costs and yields in Hungarian agriculture

Agroeconomic Book, published 2012

The research examined the territorial differentiation of damage to wheat, maize, barley, sunflower seed, rapeseed, grape and apple production caused by drought, heavy rain and spring frost. The investigation evaluated the territorial differences in the effects of weather on agricultural production and found that there are extremely high differences in the probabilities of damage in different micro-regions. Therefore the design of agricultural insurance products should be based

on different absolute deductibles and different insurance premiums for micro-regions. Furthermore, it was found that within a micro-region individual producers face a very high diversity of risks which implies that in the long term only a *bonus-malus* system developed for individual agricultural producers can mitigate different risks, and that this can be the basis of a well performing risk management system that is suitable for a wide risk community.

JUHÁSZ Anikó and WAGNER Hartmut

An analysis of Hungarian agri-food export competitiveness

Agroeconomic Study, published 2012

The main purpose of our study was to provide an overview of the export growth trends in the Hungarian agri-food sector over the last decade and to identify the obstacles hindering the sector's development. We used constant market share (CMS) analysis to break down the changes in export growth into components. Almost without exception, the increasing market size accounted for most of the export growth. The commodity (composition) and competitiveness effect aspects produced varied results and were not so positive. This showed that the Hungarian export structure was less adaptive to changes in demand in the target export markets. Our results also showed that for western European Union (EU) member states the national technical regulations

density rankings (calculated from the TRIS database) were nearly the opposite of the trade logistics efficiency (cost, duration and document number) rankings. In other words the 'old' EU member states have developed a competitively operating service sector of foreign trade logistics and at the same time created an efficient safety net of regulations controlling the import of products that could harm the interests of society (mainly addressing public health, sanitary and phytosanitary risks). Confirming the recommendations of the study, a similar analysis for the Eastern EU member states showed that in both areas (logistics efficiency and the effective use of legal protection) there is still a lot that can be learned from the 'old' member states.

Studies in Agricultural Economics

Information for authors

Studies in Agricultural Economics publishes original research papers, review papers, policy analyses and book reviews on agricultural economics, rural development and related topics including: agricultural production and competitiveness, environmental resource management, agri-food supply chain management, markets and marketing, international trade, econometrics, rural economic geography, rural economy and sociology, and development of information and knowledge based society in rural areas.

Audience

Researchers, academics, policy makers and practitioners in agricultural economics and rural development, especially in eastern central and south eastern Europe.

Submission of manuscripts

Submission of an article implies that the work described has not been published in English in any other peer-reviewed journal, is not under consideration for publication elsewhere, and that its publication is approved by all authors and tacitly or explicitly by the responsible authorities where the work was carried out. The author will retain the copyright of the article but agrees to identify AKI as the original publisher. Papers will not normally exceed 6000 words including the reference list and figure and table captions. Authors intending to prepare a book review should first consult the Editorin-Chief and such a review should not exceed 2000 words.

Shorter papers and comments, of up to 1500 words, will also be considered for publication. Such notes might deal with the economic aspects of policy, with the results of small research projects not justifying a full-length article, or comment on articles previously published.

Manuscripts should be submitted in .doc or compatible format. They should be prepared using A4 format, TNR 12 pt text and 1.5 line spacing and be in single-column format with wide margins. Do not hyphenate words and use **bold** face and *italics* only sparingly, but use subscripts and superscripts where appropriate. Avoid the use of single-sentence paragraphs. Tables should be placed at the end of the manuscript and figures should be submitted as separate files, numbered accordingly. Page and line numbering must be used but no reference should be made to page numbers in the text. You should use the 'spell-check' and 'grammar-check' functions of your wordprocessor, which should be set to *English* English, to avoid unnecessary errors.

Manuscripts will be double-blind reviewed by at least two reviewers and may be returned to the author(s) for revision before acceptance for publication. The Editor-in-Chief will normally consider only one re-submission.

Article structure

Divide your article into clearly defined sections but do not use section or subsection numbers. Each heading should appear on its own separate line. For research papers you are urged to consider using the following structure:

 Introduction. State the objectives of the work and provide an adequate background with reference to the

- international literature, but avoiding a detailed literature survey or a summary of the results.
- Methodology. Provide sufficient detail to allow the work to be reproduced. Methods already published should be indicated by a reference: only relevant modifications should be described.
- Results. Results should be clear and concise.
- Discussion. This should explore the significance of the results of the work, not repeat them. A combined Results and Discussion section should normally be avoided. You should show how your results add to existing knowledge but avoid extensive citations and discussion of published literature.

Where it is not appropriate to use the above framework, you should finish the paper with conclusions.

Essential title page information

- **Title.** Concise and informative. Avoid abbreviations and formulae where possible.
- Running title. Please provide an abbreviated title of no more than 60 characters (including spaces) that can be used as a running title on the page header.
- Author names and affiliations. Present the authors' affiliation addresses (where the actual work was done) below their names.
- Corresponding author. Clearly indicate the corresponding author who will handle correspondence
 at all stages of refereeing and publication, also postpublication. Please provide a telephone and fax number in addition to the e-mail address and the complete
 postal address.
- Present/permanent address. If an author has moved since the work described in the article was done, or was visiting at the time, a 'Present address' (or 'Permanent address') may be indicated. The address at which the author actually did the work must be retained as the main, affiliation address.

Additional information

- **Abstract.** A single paragraph of 100-250 words should state the purpose of the research, the principal results and major conclusions.
- Keywords. Please provide a maximum of six keywords.
- Abbreviations. If necessary, define abbreviations that are not standard in this field on the first page of the article.

- Acknowledgements. If applicable, collate acknowledgements in a separate section at the end of the article before the references. List here those individuals and/or organisations that provided help, including financial support, during the research.
- Nomenclature and units. Follow internationally accepted rules and conventions: use the international system of units (SI) i.e. metre, second, kilogramme etc. or accepted alternatives e.g. day, litre, tonne.
- Math formulae. Present simple formulae in the line of normal text where possible. Number consecutively any equations that have to be displayed separately from the text (if referred to explicitly in the text). For simple fractions use the solidus (/) instead of a horizontal line. Powers of e are often more conveniently denoted by exp. Give the meaning of all symbols immediately after the equation in which they are first used. Levels of statistical significance which can be mentioned without further explanation are: *P <0.05, **P <0.01 and ***P <0.001.
- Footnotes. Footnotes should be used sparingly. Number them consecutively throughout the article, using superscript Arabic numbers. Indicate each footnote in a table with a superscript lowercase letter.

Tables and figures

- Tables. Number tables consecutively in accordance with their appearance in the text. Each table should be accompanied by a title and fully descriptive caption. Column headings should be brief but sufficiently explanatory and standard abbreviations of units of measurement should be included between parentheses. Do not use vertical rules to separate columns. Large tables should be avoided. If many data are to be presented, you should consider dividing them over two or more tables. Reversing columns and rows will often reduce the dimensions of a table.
- Figures. Graphs, drawings or photographs should be supplied in digital format in monochrome and be of sufficient contrast. Figures prepared with professional software such as Jandel SigmaPlot® (but saved in .doc or compatible format) are preferred. Captions should be included in the main manuscript, not attached to the figure, and should explain all symbols and abbreviations used. The text should include references to all figures. The use of figures from other publications is discouraged but, if used, permission of the author(s) or the copyright owner is necessary.

References

Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Citations may be made directly (or parenthetically). Groups of references should be listed first alphabetically, then chronologically. For example: 'as demonstrated (Allan, 1996a, 1996b, 1999; Allan and Jones, 1995). Kramer *et al.* (2000) have recently shown ...' Citation of a reference as 'in press' implies that the item has been accepted for publication.

In the reference list, references should be arranged first alphabetically and then further sorted chronologically if necessary. They should not be numbered. More than one reference from the same author(s) in the same year must be identified by the letters 'a', 'b', etc. placed after the year of publication. The title of a non-English publication should be followed by the English translation in square brackets. Journal titles should not be abbreviated. Examples:

- Reference to a journal publication. Van der Geer, J., Hanraads, J.A.J. and Lupton, R.A. (2000): The art of writing a scientific article. Journal of Science Communication 163, 51-59.
- Reference to a book. Strunk Jr., W. and White, E.B. (1979): The Elements of Style (3rd edition). New York: Macmillan.
- Reference to a chapter in an edited book. Mettam, G.R. and Adams, L.B. (1999): How to prepare an electronic version of your article, in Jones, B.S and Smith, R.Z. (eds), Introduction to the Electronic Age. New York: E-Publishing, 281–304.

For Web references, as a minimum, the full URL should be given and the date when the reference was last accessed. Any further information, if known (DOI, author names, dates etc.), should also be given. Web sources should be included in the reference list alphabetically according to the author's surname or organisation's name.

Publication ethics

Studies in Agricultural Economics aims to comply with the standards outlined in the COPE Codes of Conduct for Journal Editors and Publishers. These can be accessed at www.publicationethics.org/resources/code-conduct.

After acceptance

The corresponding author will be provided, at no cost, with a PDF file of the article via e-mail. The PDF file includes a cover sheet with the journal cover image and a disclaimer outlining the terms and conditions of use. The copyright of the article as published will be retained by the Journal. This does not affect ownership of copyright in the content of the article. *Studies in Agricultural Economics* has no page charges or submission fees.

Complete full-text articles may be published on the AKI website in advance of their publication in a printed issue. These do not yet have volume, issue or page numbers, so cannot be cited in the traditional way. They are therefore given a Digital Object Identifier (DOI), which allows the article to be cited before it appears in printed form.

Studies in Agricultural Economics is accessible online at www.aki.gov.hu/studies and at http://ageconsearch.umn.edu/handle/44317. It is listed in EconLit, in the Directory of Open Access Journals (www.doaj.org), as a Commendable Journal in the Cabell's Directory of Publishing Opportunities in Economics and Finance, and is included in the Citations in Economics database (http://ideas.repec.org/s/ags/stagec.html). Papers are abstracted in the CABI Agricultural Economics Database (www.cabi.org) and indexed by Google Scholar.