

**Servicio de Investigación Agroalimentaria
BIBLIOTECA**

BOLETÍN DE INFORMACIÓN BIBLIOGRÁFICA



Sumarios de Monografías nº 3

MARZO 2003

B-3-35**Congress European Association of Agricultural Economists (EAAE) (10°. 2002. Zaragoza)**

Exploring diversity in the european agri-food system [CD-ROM] : X Congress European Association of Agricultural Economists (EAAE) : Programme : Zaragoza, Spain, 28-31 august 2002 / EAAE. -- [Zaragoza : EAAE, 2002?]

1. ECONOMIA 2. ORGANIZACION INDUSTRIAL 3. INDUSTRIA ALIMENTARIA 4. SECTOR AGROINDUSTRIAL 5. EUROPA 6. CONGRESOS I. European Association of Agricultural Economists II. TITULO

B-3-36**Congreso sobre calidad, transformación y comercialización de productos agropecuarios (2002. Sariñena, Huesca)**

Congreso sobre calidad, transformación y comercialización de productos agropecuarios [CD-ROM] : Sariñena - Huesca del 20 al 22 septiembre 2002 / [Ayuntamiento de Sariñena]. -- [Sariñena : Ayuntamiento, 2002?]

1. ECONOMIA 2. COMERCIALIZACION 3. CALIDAD 4. PRODUCTOS AGRICOLAS 5. SECTOR AGROINDUSTRIAL I. SARIÑENA. Ayuntamiento

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DEVELOPPEMENT et politiques agro-alimentaires dans la region mediterraneenne [CD-ROM] : Rapport annuel 2001 : Medagri 2002 / CIHEAM. -- Montpellier : IAM, 2002

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B-3-38**British Society of Animal Science**

Proceedings of the Annual BSAS Meeting [CD-ROM] 2002, 2001, 2000, 1999, including ISAE 2001-02 / BSAS. -- Midlothian, UK : BSAS, 2002

1. PRODUCCION ANIMAL 2. CIENCIA ANIMAL 3. CONGRESOS I. TITULO

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O-1-25**BERDONCES I SERRA, Josep Lluís**

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Q-4-140**SAAVEDRA SAAVEDRA, María Milagros**

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Q-6-3323

Jornada Informativa sobre cultivos energéticos, agroindustria y seguridad alimentaria (2001. Huesca)

Jornada Informativa sobre cultivos energéticos, agroindustria y seguridad alimentaria : Huesca, 4 de octubre de 2001 / Comunidad General de Riegos del Alto Aragón. -- Huesca : Comunidad General de Riegos del Alto Aragón, 2001

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MOLETTA, René

Gestion des problemes environnementaux dans les industries agroalimentaires / René Moletta coordonnateur. -- Paris : Tec & Doc, 2002

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R-6-315

Symposium sobre calidad en melocotón y nectarina (3º. 2002. Fraga)

III Symposium sobre calidad en melocotón y nectarina : Fraga 2002 : Celebrado el día 31 de mayo de 2002, Salón de Actos del Palacio Montcada (Fraga) con motivo de la XIV edición de la Feria de Fraga Mercoequip / [Comité Organizador de Mercoequip]. -- [Fraga] : Comité Organizador de Mercoequip, D.L. 2002

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Acción estructural : modernización de los viejos regadíos : Terceras Jornadas Agrarias : Lalueza, 15 noviembre - 12 diciembre 1997 / [organizadas por el Centro de Estudios Técnicos Agrarios "Monegros"]. -- [Huesca] : Centro de Estudios Tecnicos Agrarios "Monegros", D.L. 1999

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Reuniones del Grupo de Trabajo en Experimentación y Viticultura y Enología : Reunión anual 2001 : Murcia, abril de 2001 / Ministerio de Agricultura, Pesca y Alimentación. -- Madrid : MAPA, D.L. 2002

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NUEVO sistema de alimentación a libre disposición para ganado ovino : COME-RUM / Antonio Oliván Gascón... [et al.]. -- Zaragoza : Institución Fernando el Católico, 2002

1. GANADO OVINO 2. ALIMENTACION DE LOS ANIMALES 3. ALIMENTACION I. OLIVAN GASCON, Antonio II. YANIZ PEREZ DE ALBENIZ, Jesús III. MUÑOZ PEREZ, Fernando IV. ANDUEZA URRRA, Donato V. Institución Fernando el Católico

R-6-315

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Nº M. 2202

III SIMPOSIUM SOBRE CALIDAD EN MELOCOTÓN Y NECTARINA



FRAGA 2002

Celebrado el día 31 de Mayo de 2002

Lugar: Salón de Actos del Palacio Montcada (Fraga)
con motivo de la XIV Edición de la Feria de Fraga. Mercoequip

X Congress

European Association of Agricultural Economists

(EAAE)

Exploring Diversity

in the

European Agri-Food System

PROGRAMME

Zaragoza, Spain, 28-31 August 2002

PLANNING OF SESSIONS : CONTRIBUTED PAPERS AND ORGANIZED SESSIONS
 CONTRIBUTED PAPERS AND ORGANIZED SESSIONS
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 The economic and historical foundation of the common
 agricultural policy
 in EuropeHenrik Zobbe (Department of Economics, Agricultural
 University of
 Copenhagen, Denmark) 001-216
 From the first to the second pillar of the CAP: hypotheses of
 direct aid
 modulation in ItalyRoberto Henke, Roberta Sardone (National
 Institute of
 Agricultural Economics, Rome Italy) 002-110
 The CAP and EU enlargement : implications for agricultural
 productions in
 the CEECsJavier Fernandez (Departamento de medio
 ambiente, INITAA, Madrid,
 Spain)003-004

Room 9 Food economics
 Demand for and value of credence characteristics : case
 beefJukka Kola,
 Terhi Latvala (Department of Economics and Management at the
 University
 of Helsinki, Finland)004-064
 Consumer welfare and the loss induced by withheld information :
 the case of
 BSE in Italy.Mario Mazzocchi, Gianluca Stefani (Department of
 Statistics
 at the Univ. of Bologna, Italy)005-070
 Confidence in the beef production system as a key factor to
 mitigate the
 impact of BSE on beef consumptionMercedes Sanchez , Ramo
 Barrena
 (Department of Management at the University of Navarra,
 Pamplona, Spain)
 Azucena. Gracia, Jose.M. Gil (SIA-DGA, Zaragoza , Spain)006-115

Room 1Insurance
 Revenue insurance as an income stabilization policy : An
 application to
 the Spanish olive oil sectorMaria Bielza, Alberto Garrido, Jose
 Sumpsi
 (Department of Economics, ETSI Agronomos, University of Madrid,
 Spain)007-219
 Designing crop insurance to manage moral hazard costsRobert D.
 Weaver,
 Taeho Kim (Department of Agricultural Economics at the State
 University of
 Pennsylvania, , USA)008-301
 Hedging price risk in the presence of crop yield and revenue
 insuranceOlivier Mahul (Unit of Economics at INRA Rennes,
 France)009-295

Room 10Rural development
 Rural development : An analytical approach at different
 territorial
 levelsElisa Montresor (Department of Economics, Society and
 Institutions
 at the University of Verona, Italy)010-221
 Territorial product associations in Greece : The case of olive
 oilGeorge
 Philippidis, (Bradford University., West Yorkshire, U.K.), Ana

I. Sanjuan

(Department of Business Administration at the Public University of Navarra, Pamplona, Spain), Ioannis Kakaroglou 011-174
The farm strategy approach towards competitiveness under the CAP reforms.
The case of Andalusia in southern Spain Rosa Gallardo, Fernando Ramos, Eduardo Ramos (Department of Rural Economics at the University of Cordoba, Spain) 012-151

Room 3 Non market valuation
Preliminary results of a survey of farm animal biodiversity conservation actions in Europe under the framework of agenda 2000 Giovanni Signorello, Gioacchino Pappalardo (Department of Economics at the University of Catania, Italy) 013-170
Valuing externalities of watershed restoration and erosion control projects in Mediterranean basins : a comparative analysis of the contingent valuation and replacement cost methods. Marial del Carmen Almansa Saez (Department of Management at the University of Navarra, Pamplona, Spain), Javier Calatrava Requena (Department of Agricultural Economics and Sociology at the Agricultural Research Center of Granada, Spain) 014-312
Evaluating household leisure behaviour of rural tourism in Japan Yasuo Ohe (Chiba University Faculty of horticulture, Japon) 015-031

Room 4 Public goods
The new role of social security for rural development in developing countries Johannes Jutting (Center for Development Research, Bonn, Germany) 016-080
Provision of public goods in the transition process : empirical evidence on access to health care in rural regions of Russia Daniela Lohlein, Johannes Jutting, Peter Wehrheim (Center for Development Research, Bonn, Germany) 017-188
Agricultural production organization in transition economies and the role of human capital : evidence from Romania Marian Rizov (LICOS Center for Transition Economics at the Catholic University of Leuven, Belgium) 018-157

Room 8 Competition and market power
The dark side of coffee : market power in the German market of roasted coffee Julia Koerner (Institute of Food Economics, University of Kiel, Germany) 019-073

Staggering and synchronisation of prices in a low inflation environment :
evidence from German food stores Jens Peter Loy (Department of Agricultural Economics at the University of Kiel, Germany),
Christoph Weiss (Department of Food & Consumption Studies at the C.A. University of Kiel, Germany) 192-074
Certification of origin and brands competition Claire Chambolle,
Eric Giraud-Heraud (Unit of Economics LORIA at INRA and Polytechnic School, Paris, France) 021-296
Room 6 Food and the media
Organized session. Jo Swinnen, coordinator (Catholic University of Leuven, Belgium) OS03
The role of media and public information in consumer attitudes towards new technologies: theory and empirical evidence from GM foods in Europe Els Compernelle (London School of Economics, UK)
Media coverage of GM Foods in the US and UK Nicholas Kalaitzandonakes,
Leonie Marks (University of Missouri, Columbia, USA)
Food crises and the political economy of the media Jo Swinnen,
Nathalie Francken
(Catholic University of Leuven, Belgium)

WED 28: 16h-17h30 SESSION 2

Room 11 Agricultural policy modelling
Multicommodity EU policy framework incorporating public good criteria into the direct payment system in agriculture W. Dunne, J.J.O'Connell (Rural Economy Research center, Teagasc, Dublin, Ireland) 022-236
Welfare analysis in a multi-market framework : implications for the CAP
cotton, maize and sugar beet regime in Greece Stelios Katranidis (Department of Economics at the University of Macedonia, Thessaloniki, Greece) 023-210
Evaluating EU agricultural policy reform using the EU WTO model Susan Leetmaa, Jim Stout, Mary Anne Normile (Economic Research Service, USDA, Washington, USA) 024-191

Room 1 Willingness to pay
Consumer willingness to pay for irradiated beef Rodolfo Nayga, Arsen Poghosyan, John P. Nichols (Department of Agricultural Economics at the Texas A&M University , USA) 025-211
Consumers willingness to pay a price for organic beef meat Alessandro Corsi, Silvia Novelli (DEIAFA., Rural Economy at the University of Torino, Italy) 026-146
Irrational responses in contingent valuation and their

potential impacts

on mean stated willingness to pay Sensui He, Wojciech
Florkowski, Jeffery
Jordan (Department of Agricultural & Applied Economics at the
University
of Georgia, USA) 027-075

Room 10 Agriculture and the environment
The economics of pesticides in Danish agriculture Niels
Kaergaard, Soren
Frandsen, Aage Jorgensen, Jens Erik Orum, Lars-bo Jacobsen,
Alex Dubgaard
(Royal Agricultural University of Copenhagen, Denmark) 028-154
Organic farms in the EU: Status quo, development strategies and

policy
impacts on selected arable and dairy farms Anna Haering
(Institute of Farm
Economics, University of Hohenheim, Stuttgart, Germany) 029-225
Farm-specific factors affecting the choice between conventional
and
organic dairy farming Cornelis Gardebroeck (Department of Social
Sciences
Agricultural Economics and Rural Policy Group at the Wageningen
University, The Netherlands) 030-103

Room 4 Risk and future markets
Exchange rates and natural rubber prices, the effect of the
Asian
crisis Kees Burger, Hidde Smit, Ben Vogelvang (Faculty of
Economics and
Business Administration at the Vrije University of Amsterdam,
The
Netherlands) 031-108

Equilibrium and price stabilization S.D. Fläm, I. Gaasland,
Erling Vardal
(Department of Economics, University of Bergen, Norway) 032-282
Term structure of volatility and price jumps in agricultural
markets-evidence from option data Steen Koekebakker, Gudbrand
Lien
(Norwegian Agricultural Economics Research Institute, Oslo,
Norway)
033-081

Room 8 Intergenerational transfers and farm dynamics
Modelling succession on Irish dairy farms Thia Hennessy
(Teagasc, Dublin,
Ireland) 034-307
Impact of the 1990s French reform on farmers retirement
decisions Madior
Fall (Unit of Economics LEA at INRA Paris, France)
Determinants and dynamics of farm diversification Christoph
Weiss, Wolfgang
Briglauer (Department of Food Economics and Consumption Studies
at the
C.A. University of Kiel, Germany) 036-078

Room 9 R&D and innovation
Crop research incentives in a privatized industry : a
stochastic
approach Stavroula Malla, Richard Gray (Department of
Agricultural
Economics at the University of Saskatchewan, Canada) 037-117
R&D appropriability and planned obsolescence : empirical
evidence from

wheat breeding in the UK Dwijen Rangnekar (School of public
Policy at the
University College of London, U.K.) 038-240
An empirical analysis of the effects of plant variety
protection
legislation on innovation and transferability. C.S. Srinivasan,
Bhavani
Shankar, Garth Holloway (Department of Agriculture and Food
Economics at
the University of Reading, U.K.) 039-049

Room 3 Food industry economics
Analysing competitiveness of the Hungarian agro-food
chain Istvan Feher,
Zsolt Papp (University of Gödöllő, Hungary) 040-309
Determinant of quality management efficiency in Polish food
processing
industry Romuald Zalewski (Faculty of Commodity Science at the
Poznan
University of Economics, Poland), Eulalia Skawinska (Institute
of
Management Engineering, Poland) 041-314
Product differentiation on the Polish pig market Agata Pieniadz,
Heinrich
Hockmann (Institute of Agriculture Development in Central &
Eastern
Europe, Halle, Germany) 042-138

Room 6 Maximum entropy for modelling agricultural diversity
Organized session. Yves Surry (INRA, Rennes, France), Richard
Howitt
(Department of Economics, University of California, Davis,
USA),
coordinators OS04
The simultaneous estimation of input technical efficiencies and
the
parameters of a production function Alfonse Lansink (Wageningen
University,
The Netherlands)
Estimating systems of supply and input demand for European
member
countries using ME procedures Alexandre Gohin (INRA, Rennes,
France)
Disaggregating regional models to the farm and field level
Arnaud Reynaud
(INRA, Toulouse, France), Richard Howitt (University of
California, Davis,
USA)

Reconstructing disaggregate production functions using
GMERichard Howitt,
Siwa Msangi (University of California, Davis, USA)

Estimating farm specific input/output coefficients using ME
procedures Ludo Peeters (Limburgs Univerisity Center, Belgium),
Yves Surry
(INRA, Rennes, France)

WED 28: 17h45- 19h15 SESSION 3

Room 11 Agricultural policy and the dairy sector
The next WTO round on agriculture and EU enlargement pressures
on the

dairy sector Ellen Huan-Niemi, Jyrki Niemi (Economic Research (MTTL, MTT Agrifood Research, Finland) 043-076
 Price discrimination and EU dairy policy: an economic evaluation of policy options Zohra Bouamra-Mechemache, Vincent Requillart (Unit of Economics at INRA Toulouse, France), Jean-Paul Chavas, Tom Cox (Department of Agricultural & Applied Economics at the University of Wisconsin, Madison, USA) 044-024
 A partial equilibrium model of the beef and dairy sector in Italy under imperfect competition Daniele Moro, Paolo Sckokai (Institute of Economics and Agrifood at the Catholic University of Piacenza, Italy) Claudio Soregaroli (Milk Observatory at the Catholic University of Cremona, Italy) 045-271

Room 4 Political economy and institutions
 Influence of political campaign contributions by American business firms on US farm policy Amilcar Serrao (University of Evora, Portugal) 046-023
 Institutions and EU decision making : the 'power' of the European commission Jan Pokrivcak (Department of Economics at the Slovak Agricultural University, Nitra, Slovakia) 047-182
 Regulatory institutions and agricultural markets : a comparative analysis Ann-Christin Sorensen, Berit Tennbakk (Norwegian Agricultural Economic Research Institute, Oslo, Norway) 048-131

Room 8 Consumers and quality attributes
 Food safety and food demand - effects of temporary and permanent news Sinne Smed , Jørgen Dejgaard Jensen (Danish Research Institute of Food Economics, Frederiksberg, Denmark) 049-122
 Consumers's motivations in purchasing "new wines" in greece with emphasis on wine produced organic grapes : a means-chains approach Cristos Fotopoulos (Department of Farm Management at the University of Ioannina, Agrinio, Greece), Athanassios Krystalli (Agricultural Economics and Social Research Institute, Athens, Greece), Mitchell Ness (Department of Agricultural Economics and Food Marketing of the University of Newcastle upon Tyne, U.K.) 050-008
 Socioeconomic factors and the consumption of wine in Tenerife Gines Guirao Perez, Cano Fernandez, Lopez Yurda, Rodriguez Donate (Department of Economics at the University of La Laguna, Canary Islands, Spain) 051-184

Room 10 Economics of GMOs

The GMO regulation in the EU and the commercial conflict with the United

States Raul Lopez (University of Polytechnic of Valencia, Spain),

Javier-Guillem Carrau (S. Berwin, Brussels, Belgium) 052-231

Comparing attitudes towards GMO food in Europe A. Springer (University of

Giessen and Center for Survey Research Methodology of Mannheim, Germany),

G. Papastefanou (Center for Survey Research & Methodology of Mannheim,

Germany), K. Mattas, A. Tsioumanis (Department of Agricultural Economics at

the University of Aristotle, Thessaloniki, Greece) 053-273

Potential adoption of genetically modified rapeseed in France, effect on

revenues of farmers and upstream companies : an ex ante evaluation Stephane

Lemarie, Marion Desquilbet (INRA Grenoble, France), Fabrice Levert (INRA,

Rennes, France) 054-179

Room 6 Agricultural insurance or the guarantee of income

Organized session. Miranda Meuwissen (Institute for Risk Management in

Agriculture, Wageningen University, The Netherlands)

coordinator OS06

Income insurance in European agriculture Miranda Meuwissen

(Institute for

Risk Management in Agriculture, Wageningen University, The Netherlands),

Ruud Huirne (department of Social sciences, Wageningen University, The

Netherlands), Jerry Skees

Price insurance as a safety net for the potato sector Alberto Garrido,

Maria Bielza, José M. Sumpsi (University of Polytechnics, Madrid, Spain)

Crop yield and revenue insurance Olivier Mahul (Unit of Economics at Inra,

Rennes, France)

Room 9 Contracts, incentives and the environment

The role of transaction costs and bargaining power in wildlife and

landscape services production : a microeconomic model for Dutch dairy

farms Nico Polman, Jack Peerlings (Agricultural Economics and Rural Policy

Group at The Wageningen University, The Netherlands) 055-168

Set-aside versus quotas in contracts for agro-environmental regulation Anne-Sophie Crepin (Beijer Institute of Ecological

Economics,

Stockholm, Sweden), Pierre-Alain Jayet (Unit of Public Economy INRA-INAPG,

Grignon, France) 056-254

Farmer's participation in European agri-environmental policies Pierre

Dupraz, François Bonnieux (Unit of Economics at INRA Rennes, France),

Isabel Vanslebrouck, Guido Van Huylenbroeck (Department of Agricultural

Economics of the Ghent University, Belgium) 057-043

Room 1 New approaches in production economics
Development of a partial equilibrium model of the EU12
agriculture using
positivistic mathematical programming C.M. Yates, T. Rehman
(Department of
Agriculture at the University of Reading, U.K.)
058-323
Spatial disaggregation of agricultural production data by
maximum
entropy Richard Howitt (Department of Agricultural and
Resources Economics
at the University of California at Davis, USA), Arnaud Reynaud
(LEERNA at
INRA, Toulouse, France) 059-118
A methodological note on the estimation of programming
models Thomas
Heckelei, Hendrick Wolff (Institute for Agricultural Policy,
Market
Research and Economic Sociology of the University of Bonn,
Germany) 060-055

Room 8 The future of agricultural and rural development in and
enlarged
Europe
Organized session. Giovanni Anania (University of Calabria,
Italy), Ewa
Rabinowicz (Swedish University of Agricultural Sciences,
Sweden),
coordinators OS05
Expectations and challenges for a new CAP Jan Blom (LEI, The
Hague,
Netherlands)

The future of the "first pillar" Allan Buckwell (Country Land
and Business
Association, UK), Jose Sumpsi Vina (Polytechnic University of
Madrid,
Spain)
The future of the "second pillar" Elena Saraceno (Group of
Policy Advisors,
European Commission)

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Room 10 World food demand
Projecting world food demand - A comparison of alternative
demand
systems Wusheng Yu (Danish Research Institute of Food Economics,
Frederiksberg, Denmark), Thomas Hertel, Paul Preckel, James
Eales
(Department of Agricultural Economics of Purdue University,
West
Lafayette, USA) 061-281
Can we feed the animals? Origin and implications of rising
meat
demand Michiel Keyzer, Max Merbis, Ferdinand Pavel (Center for
World Food
Studies, Amsterdam, The Netherlands) 062-062
Differentiated demand and supply of wheat under alternative
European trade
policies Bruno Henry de Frahan, Christian Tritten (Catholic
University of
Leuven, Belgium) 063-278

Room 3 Agricultural policy and quotas
Endogenous adjusted output quotas : the abolishment of the raw milk quota
in the European union Markus Lips, Peter Rieder (Department of Agricultural Economics, Swiss Federal Institute of Technology, Zurich, Switzerland)064-153
The impact of milk quota abolishment on Dutch agriculture and economy :
applying an agricultural sector model integrated into a mixed input-output model John Helming (Agricultural Economics Research Institute, The Hague, The Netherlands), Jack Peerlings (Agricultural Economics and Rural Policy Group, Department of Social Sciences of The Wageningen University, The Netherlands)065-099
Sugar quotas and crop production efficiency Markus Bjerre, Jorgen Jensen (Danish Research Institute of Food Economics, Frederiksberg, Denmark) 066-092

Room 1 Credit and financing
Are farmers completely rational consumers and do they suffer from a borrowing constraint ? The Dutch case Tassew Woldehanna (Agricultural Economics and Rural Policy Group, The Wageningen University, The Netherlands and Adis Ababa University, Ethiopia), Arie Oskam (Agricultural Economics and Rural Policy Group, the Wageningen University, The Netherlands)067-100
Credit rationing in the Polish farm sector : a microeconomic analysis based on survey data Martin Petrick (IAMO, Division of External Environment for Agriculture and Policy Analysis, Halle, Germany)068-041
Investment in young and established microenterprises in Russia Valentina Hartarska (Russia) 069-259

Room 11 Multifunctionality and the CAP
Multifunctionality and the European common agricultural policy : A theoretical problem Karsten Kyed, Niels Kaergård, Henrik Zobbe (Department of Economics and Natural Resources, The Royal Veterinary and Agricultural University, Copenhagen, Denmark)070-289
Multifunctional agriculture: a framework and policy design Jussi Lankoski (Department of Economic Research, MTT Agrifood Research Helsinki, Finland), Markku Ollikainen (Department of Economics and Management, University of Helsinki, Finland)071-044
Rural development policies and Non Trade Concerns: The case of Italy. Emilio Gatto, Roberto Henke and Beatriz Velazquez (Institute of

Agricultural Economics, Rome, Italy) 072-288

Room 4 Intergenerational transfers
Farmer's exit decisions and early retirement programs in
Finland Kyosti
Pietola and Minna Vare (Department of Economic Research, MTT
Agrifood
Research, Helsinki, Finland), Alfons Oude Lansink (Farm
Management Group
of The Wageningen University, The Netherlands) 073-033
Intergenerational succession on family farms: evidence from
survey and
census data Thomas Glauben, Hendrik Tietje, Christoph Weiss
(Department of
Food Economics and Consumption Studies at the University of
Kiel, Germany)
074-107
Handing over the reins: a comparative study of
intergenerational farm
transfers in England, France and Canada Andrew Errington
(Department of
Land Use and Rural Management at the University of Plymouth,
Newton Abbot,
Devon, U.K.) 075-067

Room 8 Rural policy
Understanding the institutional evolution of the European rural
policy : a
methodological approach Maria del Mar Delgado, Eduardo Ramos
(Unit of Rural
Development, Department of Agricultural Economics at the
University of
Cordoba, Spain) 076-172
European rural development policy preferences Jason Hartell
(Department of
Agricultural Economics at the University of Kentucky,
Lexington, USA),
Maureen Kilkenny (Iowa State Univ., USA), Johan Swinnen
(Catholic
University of Leuven, Belgium) 077-292
Agricultural policy influence upon the economic behavior of
rural
households Marioara Rusu (Institute of Agricultural Economics,
Bucharest,
Romania) 078-102

Room 9 Measuring technical efficiency
An analysis of output and input oriented technical and scale
efficiencies
in Greek cotton farms Stelios Rozakis (Unit of Public Economics
at
INRA-INAPG, Grignon, France), Vangelis Tzouvelekas (Department
of
Economics at the University of Crete & National Agricultural
Research
Foundation, Greece) 079-320
Policy reform and productivity change in Chinese agriculture :
a distance
function approach Bernhard Brummer (Department of Agricultural
Economics at
the University of Kiel, Germany), Thomas Glauben (Department of
Food
Economics at the University of Kiel, Germany), Wencong Lu
(Department of

Agricultural Economics at the University of Zhejiang, Hangzhou, Germany

)080-238

Parametric decomposition of output growth : an input distance function

approachGiannis Karagiannis (Department of Economics at the University of

Ioannina, Greece), Peter Midmore (School of Management & Business at The

University of Wales, U.K.), Vangelis Tzouvezelekas (Department of

Economics at the University of Crete, Greece)081-250

Room 6Food safety economics : traceability and liability issues
Organized session. Presentations on :Annet Velthuis,

coordinator

(Department of Social Sciences, Wageningen University and Research Center,

The Netherlands)OS07

Economics of traceability and certification in the supply chainMiranda

Meuwissen (Institute for Risk Management in Agriculture), Annet Velthuis

and Henk Hogeveen (Department of Social Sciences, Wageningen University,

The Netherlands)

Systemic failure in the provision of safe foodDavid Hennessy, Helen Jensen

(CARD, Iowa State University, USA), Jutta Roosen (Department of Rural

Economics & Center of Operations Research and Econometrics, Catholic

University of Leuven, Belgium)

Regulating food safetyStephan Marette, Jean-Christophe Bureau, Bénédicte

Coestier, Estelle Gozlan (Unit of Public Economics at INRA-INAPG,

Paris-Grignon, France)

The role of liability, negligence and traceability food quality provisionMaria Loureiro (Department of Agricultural and

Resource

Economics, Colorado State University, USA)

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Room 7The CAP and the livestock sector

Impact of CAP animal premiums on cattle and ewe stock in the NetherlandsMyrna van Leeuwen, Andrzej Tabeau (Agricultural

Economics

Research Institute, The Hague, The Netherlands)082-171

Measuring the effects of alternative support policy instruments on beef

supplyCatherine Benjamin, Isabelle Piot-Lepetit (Unit of Economics at

INRA, Rennes, France) 083-083

An analysis of the impact of alternative EU policies on the size

distribution of Dutch dairy farms. An information based approach to the

non-stationary Markov chain modelRoel Jongeneel (Department of Social

Sciences at the Wageningen University, The Netherlands) 084-105

Room 1 Contracts and incentives
Theory of contracts and agri-environment policies. A budget
restriction
alters standard results of mechanism design theory Jan
Christensen
(Department of Economics and Natural Resources at the KVL
University,
Frederiksberg, Denmark) 085-046
Investment and contract hold-ups in transition : evidence from
Hungary Azeta Cungu, Johan Swinnen (Center for Transition
Economics at the
Catholic University of Leuven, Belgium), Hamish Gow (Department
of
Agricultural and Consumer Economics at the University of
Illinois,
Urbana-Champaign, USA) 086-048
The common tragedy of regulations Jean-Marc Bourgeon (Department
of
Economics at the University Paris-X Nanterre, Paris France)
087-293

Room 4 Performance of transition agriculture
Commercialization and subsistence in transition agriculture :
empirical
evidence from Albania, Bulgaria, Hungary and Romania Nivelin
Noev, Eric
Mathijs (Department of Agricultural & Environmental Economics
at the
Catholic University of Leuven, Belgium) 088-209
Variations in farm performance : evidence from the CEECs and
existing EU
member states Sofia Davidova (Imperial College of Wye, U.K.),
Matthew
Gorton (Department of Agricultural Economics & Food Marketing
at the
University of Newcastle upon Tyne, U.K.), Tomas Ratering
(Institute of
Agricultural Economics Prague, Czech Republic), Katarzyna
Zawalinska
(University of Warsaw, Poland), Belen Iraizoz (Department of
Economics at
the Public University of Navarra, Spain), Barna Kovacs, Tamas
Mizo
(Budapest University of Economic Sciences & Public
Administration) 089-152
What is behind the fall in Russian agricultural production ?
Irina
Bezlepkina (Farm Management Group at the Wageningen University,
The
Netherlands) 090-280

Room 10 Quality and the food chain
Governance of the agrifood chains as a vector of credibility
for quality
signalization in Europe Emmanuel Raynaud (INRA SAD-INAPG, Paris,
France),
Loic Sauvee (ISAB Beauvais, France), Egizio Valceschini (SAD-
INAPG, Paris,
France) 091-185
Focussing on consumer attention : price-quality relationships
and
reputation indicators Guenter Schamel (Department of Economics &
Social
Sciences at the Humbolt University of Berlin, Germany) 092-253

Quality indicators and intermediate products : a non-parametric approach
Angelo Zago (Department of Economic Sciences at the University of Verona, Italy) 093-159

Room 9
Risk and farmers' decisions
Agricultural risk aversion revisited: a multicriteria decision making

approach
Jose Gomez-Limon, Laura Riesgo (Department of Agricultural Economics-ETSIIAA at the University of Valladolid, Spain),
Manuel Arriaza
(Department of Agricultural Economics CIFA, Cordoba, Spain)
094-006

Assisting whole farm decision making through stochastic budgeting
Steen Koekebakker (Department of Economics & Business Administration at the

Agder University, College of Kristiansand, Norway), Gudbrand Lien

(Norwegian Agricultural Economics Research Institute, Oslo, Norway)
095-082

Modelling spot water markets under uncertain water supply
Javier Calatrava

(Department of Economics & Agricultural Social Sciences at the Polytechnic

University of Carthegena, Spain), Alberto Garrido (Department of

Economics & Agricultural Social Sciences at the Polytechnic University of Madrid, Spain)
096-220

Room 11
Multifunctionality

Multifunctionality : concepts and applications to the WTO negotiations in

agriculture
Maury Bredahl (Center for International Trade studies at the

University of Missouri, USA), Sjur Prestegard (Norwegian Agricultural

Economics Research Institute, Oslo, Norway), Nils Nersten (Department of

Statistics & Analysis, Norwegian Agricultural Research Institute, Oslo, Norway)
097-137

A U.S. perspective on multifunctionality
David Freshwater (Department of

Agricultural Economics at the University of Kentucky, Lexington, USA)
098-283

The benefits of multifunctional agriculture in Finland
Tapani Yrjola, Jukka

Kola (Department of Economics & Management at the University of Helsinki, Finland)
099-058

Room 6
Ethics and agriculture: exploring the issues

Organized session. Alison Burrell (Department of Social Sciences,

Wageningen University , The Netherlands), Linda Fulpon (OECD, Paris,

France), coordinators OS12

The ethics of patenting and the changing agenda for

agricultureProfessor
Sigrid Sterckx (University of Ghent, Department of Philosophy
and Moral
Science, University of Antwerp, Department of General
Economics)
Ethics and economics in agricultural productionPeter Sandoe
(Centre for
Bioethics and Risk Assessment at the Royal Veterinary and
Agricultural
University)
Defining and applying the precautionary principleDr. Rene von
Schomberg
(European
Commission, Brussels, Belgium)

Room 8Projection of policy impacts on the EU agri-food sector
Organized session.Brendan Riordan (Rural EconomyResearch
Centre, Teagasc,
Dublin, Ireland) coordinator OS15
Projection of policy impacts on the agri-food sector: overview
and
introduction to AG-MEMOD Brendan Riordan, Trevor Donnellan,
Kevin
Hanrahan, Kieran McQuinn, (Rural Economy Research Centre,
Teagasc, Dublin,
Ireland)
How does your country fare ? A country-modelling exampleJorgen
Jensen,
Markus Bjerre, Martin Andersen, Soren Frandsen (Danish
Research Institute
of Food Economics, Copenhagen, Denmark)
Measuring economic implications of alternative GMO regulatory
regimes on the feed and animal product sub-sector in the
European Union
Bruno Henry de Frahan, Christian Tritten, Mark Vancauteran
(Catholic
University of Leuven, Belgium)
Models and projections – a client’s viewPierre
Bascou (Directorate-General
for Agriculture of the European Commission, Brussels, Belgium)

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Room 1Managing public goods and externalities
Policies for providing public goods from agricultureEirik
Romstad
(Department of Economics and Social Sciences at the
Agricultural
University of Norway)100-193
The evolution of the agri-environmental policies and
sustainable
agricultureMaria Raquel Ventura, Maria de Lurdes Ferro Godinho,
Rui Sousa
Fragoso (Department of Firm Management at the University of
Evora,
Portugal) 101-101
Decoupled payments and the localization of activitiesKarine
Daniel (Unit
TEAM at the University of Paris-1 and Unit of Economics at
INRA/University
of Nantes, France), Maureen Kilkenny (Iowa State University,
Department of
Economics, USA)102-072

Room 10 Water economics
A agent based simulation for water sharing between different users
Marjorie Le Bars and S. Pinson (Unit Lamsade at the University of Paris-Dauphine IX and Unit of Economics at INRA, Grignon, France), Jean-Marie Attonaty (Unit of Economics at INRA-INAPG, Grignon France) 103-085
An economic drought management index to evaluate water institutions' performance
Eva Iglesias, Alberto Garrido, Almudena Gomez (Department of Agricultural Economics at the Polytechnic University of Madrid, Spain) 104-218
Water regulation and irrigated agriculture under the EU water framework
G. Bazzani, S. Di Pasquale, V. Gallerani, D. Viaggi (Department of Economics & Agricultural Engineering, Bologna, Italy) 105-291

Room 4 Cooperatives in the food sector
Long term financing in European agribusiness cooperatives.
Emerging methods for ameliorating investment constraints.
Constantine Iliopoulos (National Agricultural Research Foundation – AGESRI , Athens, Greece) 106-089
Equity management practices in Italian agriculture cooperatives : a cluster analysis approach
Carlo Russo, Massimo Sabbatini (Department of Economics at the University of Cassino, Italy) 107-088
Determinant factors of satisfaction in the relationship between first and second order agricultural cooperatives
Narciso Arcas (Department of Management and Marketing at the Polytechnic University of Cartagena, Murcia, Spain), José Luis Munuera (Department of Marketing, Faculty of Economic and Business at the University of Murcia, Spain) 108-227

Room 7 Agribusiness and management
Conceptual framework for the design and conception of an electronic trade platform in agribusiness
Tobias Hausen, Ralf Helbig, Gerhard Schiefer (Department of Organization and Information Management at the University of Bonn, Germany) 110-277
Performance/benchmarking chains and network
JJ de Vlieger (Agricultural Economics Research Institute, The Hague, The Netherlands) 111-277
Structuring consumer preferences with the SEM method
Franco Rosa (DBEA at the University of Udine, Italy) 112-094

Room 9 Income distribution
Agriculture and income distribution : insights from a SAM of the Italian

economyBenedetto Rocchi, Donato Romano, Gianluca Stefani
 (Department of
 Agricultural & Land Economics at the University of Florence,
 Italy)
 113-304
 The lure of tequila and the bestowing of mother love. Does it
 matter
 whether public cash transfers are given to women or men ?
 Evidence from
 the Progresa and Procampo programs in rural MexicoBenjamin
 Davis (FAO,
 Roma, Italy), Sudhanshu Handa (IDB, Washington, USA), Marco
 Stampini (FAO,
 Bologna, Italy), Paul Winters (UNE)114-113
 Distributional impacts of CAP adoption on Romanian
 householdsCarmen
 Firici, Kenneth Thomson (University of Aberdeen, Scotland,
 U.K.)115-086

Room 3Price transmission
 Price transmission and marketing margins in the Slovenian beef
 and pork
 markets during transitionStephen Bojnec (University of
 Ljubljana,
 Slovenia), Guenter Peter (Institute of Agricultural Development
 in Central
 and Eastern Europe, Halle, Germany) 116-114
 Canary island tomato exports : a structural analysis of
 seasonalityGloria
 Martin, Jose Juan Caceres (Department of Economics, Statistics
 and
 Econometrics at the University de la Laguna, Tenerife, The
 Canary Islands,
 Spain)117-032
 Vertical price leadership on local maize markets in BeninErno
 Kuiper, Aad
 van Tilburg (Department of Social Sciences, Marketing and
 Consumer
 Behaviour Group at The Wageningen University, The Netherlands),
 Clemens
 Luz (Department of Marketing, Faculty of Management and
 Organization at
 the University of Groningen, The Netherlands)118-042

Room 11Risk and land tenure
 Uncertain land availability and perceived biases in investment
 decisions :
 the case of Dutch dairy farmsEli Feinerman (Department of
 Agricultural
 Economics and Management at the Hebrew University Rehovot,
 Israel), Jack
 Peerlings (Department of Social Sciences, Agricultural
 Economics and Rural
 policy Group at the Wageningen, The Netherlands) 119-098
 Insecurity of property rights and matching in the tenancy
 marketKaren
 Macours (Department of Agricultural and Ressource Economics at
 the
 University of California, Berkeley, USA)120-176
 Subsistence agriculture in central and eastern Europe:
 determinants and
 perspectiveSteffen Abele, P. Voigt, P. Weingarten (Institute of
 Agricultural Development in Central & Eastern Europe, Halle,
 Germany)

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Room 6The Bond Scheme revisited
Organized session.Alan Swinbank (Center for Agricultural
Strategy,
Reading, UK) coordinator OS01
Direct payments and a triad of policy objectives: compensation,
farm
income support and multifunctionalityAlan Swinbank (Center for
Agricultural Strategy, Reading, UK)
What do farmers say they will do if a Bond Scheme were to be
introduced?Gottinen and Porto (Center for Agricultural
Strategy, Reading,
UK)
Why a Bond Scheme was not adopted in 1992 ?Carsten Daugbjerg,
(Department
of Political Science, Aarhus University, Denmark)
The mid-term review, and the politics of decouplingArlindo
Cunha (European
Parliament)
Room 8How decoupled can direct payments be ?
Organized session.Jesus Anton (Policies, Trade and Adjustment
Division
Directorate for Food, Agriculture and Fisheries OECD, Paris,
France),
coordinator OS13
Risk effects of crop support measuresJesús Antón, Chantal
LeMouel (OECD,
Paris, France)
Risk related effects of the CAP arable crop regimePaolo Skokai
(Catholic
University of Piacenza, Italy)

The impacts of crop insurance subsidies on land allocation and
production
in SpainAlberto Garrido, Maria Bielza, José M. Sumpsi
(Politechnic
University of Madrid, Spain)
Are US ‘decoupled’ payments really decoupled? An
empirical evaluationBarry
K. Goodwin (Ohio State University) and Ashok Mishra (Economic
Research
Service, USDA, Washington, USA)
Agricultural income support and trade distortions: a conceptual
framework
with free entry and land price endogeneityHerve Guyomard,
Alexandre Gohin
(Unit of Economics at INRA, Rennes, France)

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Room 1GMOS, segregation and identity preservation
Who pays the costs of non-GMO segregation and identity
preservation
?Marion Desquilbet (Unit of Economics at INRA, Grenoble,
France), David S.
Bullock (Department of Agricultural and Consumer Economics at
the
University of Illinois, Urbana, USA)122-178
Supply chain management in agriculture : including some
economic aspects
like responsibility and transparencyMarkus Mau (University of
Giessen,
Germany)123-135

A model of diffusion of genetically modified crop technology in concentrated agricultural processing markets. The case of soybeans
Denis Nadolnyak (Agricultural Administration Building, Columbus, USA), Ian Sheldon (Ohio State University, USA) 124-258

Room 10 Environmental economics
Voluntary agreements and the environmental efficiency of participating farms
Jutta Roosen, Andrea Ordonez (Unit of Agricultural Economics at the University of Leuven, Belgium) 125-127
Managing common renewable resource in asymmetric information
Daniel Fuentes-Castro (University of Paris-X Nanterre and Unit of Economics at INRA-INAPG, Grignon, France), Pierre-Alain Jayet (Unit of Economics at INRA-INAPG, Grignon, France), Gilles Rotillon (Unit THEMA at the University of Paris-X Nanterre, France) 126-255
Environmental and quality improvement practices
Emilio Galdeano, Cespedes Rodriguez (Department of Applied Economics at the University of Almeria, Spain) 127-180

Room 11 Reforming the CAP
Reforming the EU sugar policy
Soren Frandsen, Hans Jensen (Danish Research Institute of Food Economics, Frederiksberg, Denmark) 128-239
International quota transfer and intermediate goods
Ana-Maria Aldanondo, Javier Puertolas (Public University of Navarra, Pamplona, Spain) 129-177
Structural forecasts for the Danish economy using a dynamic AAGE model
Philip Adams (Centre of Policy Studies at the Monash University Victoria, Australia), Lill Andersen, Lars-Bo Jacobsen (Danish Research Institute of Food Economics, Frederiksberg, Denmark) 130-119

Room 4 Food demand
Spanish demand for food away from home : a panel data approach
Ana Angulo, Jesus Mur (Department of Economic Analysis at the University of Economic Sciences, Zaragoza, Spain), Jose M Gil (Unit of Agricultural Economics, Agrifood Research Service-DGA, Zaragoza, Spain) 131-005
Determinants of food choice in a transitional economy: insights from the theory of reasoned action
Dan Petrovici (Canterbury Business School at the University of Kent, U.K.), C. Ritson, M. Ness (Faculty of Agriculture and Biological Sciences at the Newcastle University, U.K) 132-126
A demand system analysis of food for poor and non poor households. The case of Argentina
Miriam Berges, Karina Castellanos (Faculty of Social and Economic Sciences at the University of Mar del Plata,

Argentina)133-279

Room 7 Irreversibility and real options
Policy design as an irreversible investment under uncertainty :
Norwegian
agriculture and the WTO Klaus Mittenzwei (Norwegian Agricultural
Economic
Research Institute, Oslo, Norway) 134-050
Real options : institutional and policy implications for
competitive and
interrelated markets Alfons Balmann, Oliver Musshoff (Department
of
Agricultural Economic and Social Sciences, Berlin, Germany) 135-
148
Employing real options methodology for decision making in
greenhouse
technology Irene Tzouramani (Department of Agricultural
Economics at the
University of Aristotle of Tessaloniki, Greece), Konstadinos
Mattas
(University of Aristotle of Tessaloniki, Greece) 136-285

Room 8 Land and agricultural development
How to approach a market ? A theoretical concept for defining
and
describing a land market Annette Hurrelmann (Department of
Ressources
Economics at the Humbolt University of Berlin, Germany) 137-053
Individual farmers and land renting in Hungary Liesbet Vranken,
Johan M.
Swinnen (LICOS Center for Transition Economics at the Catholic
University
of Leuven, Belgium) 138-202
In search of the market : lessons from analyzing agricultural
transition
in central and eastern Europe Markus Hanisch (Institute for Co-
operative
Studies at the Humbolt University of Berlin, Germany), Volker
Beckmann,
Silke Boger, Markus Brem (Department of Agricultural Economics
at the
Humbolt University of Berlin, Germany) 139-310

Room 9 R&D and innovation adoption
Public R&D investment and cost behaviour in Italian agriculture
:
1960-1995 Roberto Esposti (Department of Economics at the
University of
Ancona, Italy) Pierpaolo Pierani, (Department of Economics at
the
University of Sienna, Italy) 140-286
Modernisation in agriculture : what makes a farmer adopt an
innovation Paul
Diederer, Hans van Meijl, Arjan Wolters (Agricultural Economics
Research
Institute – LEI-, The Hague, The Netherlands) 141-272
Do management profiles matter ? An analysis of Belgian dairy
farmers Mieke
Vandermsch, Erik Mathijs (Department of Agricultural & Environ-
mental
Economics at the Catholic University of Leuven, Belgium) 142-162

Room 6 Water management in Central and Eastern European
countries during

transition
Organized session. Konrad Hagedorn (Humboldt University,
Berlin, Germany),
coordinator OS08
Irrigation and water usage in Bulgaria during transition Ivan
Penov
(Agricultural University, Plovdiv, Bulgaria)
Problems with the transposition and implementation of
requirements imposed
by directive 91/676/EEC in Poland Zbigniew Karaczun (Warsaw
Agricultural
University, Poland)
Analysis of environmental impact of farming systems in
Romania Toma Luiza
(Institute of Agricultural Economics, Bucharest, Romania)
Agri-environmental policy systems in transition Zellei Anett
(University of
Newcastle upon Tyne, U. K.)
Economic and ecological transformation processes in post
socialist water
management regimes : the role of property rights and governance
structures
- a case study in Brandenburg Christian Schleyer (Humboldt
University,
Department of Agricultural Economics and Social
Sciences, Berlin, Germany)

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Room 10 Agriculture and the environment
Agri-environmental instruments for and integrated rural policy
: an
economic analysis Eli Feinerman (Department of Agricultural
Economics and
Management at the Hebrew University Rehovot, Israel), Marinus
Komen
(Department of Agriculture Economics & Management at the
Wageningen
University, The Netherlands) 143-106
Cost effective farm level nitrogen abatement in the presence of
environmental and economic risk Sone Ekman (Department of
Economics at the
Swedish University of Agricultural Sciences) 144-065
The optimal intertemporal management of the soil and phosphorus
and the
equilibrium in economic and biophysical models Renan-Ulrich
Goetz
(Department of Economy at the University of Girona, Spain),
Alois Keutsh
(Swiss Credit, Zurich, Switzerland) 145-097

Room 7 Trade and product differentiation
Intra-industry trade in horizontally and vertically
differentiated
agri-food products between Hungary and the EU. Imre Ferto
(Institute of
Economics at the Hungarian Academy of Sciences, Hungary), L.
Hubbard
(Department of Agricultural Economics & Food Marketing at the
University
of Newcastle upon Tyne, U.K.) 146-027
Export performance and innovation activity in the agro-food
industry : a
recursive estimation approach Mehrez Ameer, Azucena Gracia (Unit

of

Agricultural Economics-Agrifood Research Service, Zaragoza, Spain) 147-084

Testing separability on wheat qualities in France's common wheat

marketRabelais Njonou, Bruno Henry de Frahan (Rural Economics Unit at the

Catholic University of Leuven, Belgium), Yves Surry (Unit of Economy at

INRA, Rennes, France) 148-213

Room 1Demand for products of denominated origin

Consumer perception of typical food products in EuropeGeorges Giraud

(Research Unit Food Products Typicality at ENITA of Clermont-Ferrand and

Food Quality and Economics Department, Marmilhat-Lempdes, France)149-270

Analysis and market prospects of a traditional Calabrian productGiovanni

Gulisano, Marco Platania (Department of Agroforestry & Environmental

Sciences & Technologies) 150-248

Perception of PDO beef : the Portugese consumerCristina Marreiros,

Mitchell Ness (Department of Agricultural Economics & Food Marketing at

the University of Newcastle upon Tyne, U.K.)151-234

Room 4Protection and public support

WTO's agreement on agriculture : implications for trade, sustained

agricultural growth and poverty alleviationAnwar Chishti, (NWFP

Agricultural University Peshawar, Pakistan), Waqar Malik (Agricultural

Research Council, Islamabad, Pakistan)152-294

Adjustment of conventional PSE's methodology for economy in transitionOlga

Shick (Analytical Centre on Agrifood Economics, Moscow, Russia) 153-229

Effectiveness of government protective policies on rice production in

IranB. Najafi, M. Bakhshodeh (Department of Agricultural Economics,

College of Agriculture, University of Shiraz, Iran) 154-016

Room 8New approaches in production economics

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Lansink (Farm Management Group at the Wageningen University, The

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Feasibility and prospects for coexistence of two separate supply streams for GMOs and non GMOs in the European Union
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Robert Weaver (The Pennsylvania State University, USA)
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Linda Fulponi (Direction for Food, Agriculture and Fisheries, OECD, Paris, France)
Future scientific and technical prospects in agro-food biotechnology
Klaus Menrad (Fraunhofer ISI, Germany)
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XVII EDICIÓN DE FEMOGA
Feria Industrial, Agrícola y Ganadera de Los Monegros

ORGANIZA:

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Plaza España, 1
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España
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[http:// www.sarinena.com](http://www.sarinena.com)
E-MAIL: aytosarinena@monegros.net
sarinena@sarinena.com

Horarios de feria:
Viernes 20 septiembre: de 11 a 14 y 16,30 a
21,30 horas
Sábado 21 y Domingo 22: de 10 a 14 y 16,30 a
21,30 horas.

PROGRAMACIÓN

DIA 20 DE SEPTIEMBRE, VIERNES

10,30 horas: Recepción oficial de autoridades en la Casa Consistorial.

Simultáneamente, en la zona de acreditaciones del recinto ferial, recepción y entrega de documentación a los inscritos en el CONGRESO SOBRE CALIDAD, TRANSFORMACIÓN Y COMERCIALIZACIÓN DE PRODUCTOS AGROPECUARIOS.

11,00 horas: Inauguración de la XVII edición de FEMOGA y del CONGRESO SOBRE CALIDAD, TRANSFORMACIÓN Y COMERCIALIZACIÓN DE PRODUCTOS AGROPECUARIOS.

El acto de inauguración irá acompañado de la apertura de la feria durante la mañana del viernes a los colegios e institutos de la comarca.

Seguirá a este acto una degustación de productos elaborados en Los Monegros.

En el porche ubicado junto a la zona de protocolo se podrá ver, durante los tres días de la feria, el ganado participante en: SUBASTA AUTONÓMICA DE OVINO "RASA ARAGONESA". EXPOSICIÓN COMARCAL DE 60 NOVILLAS FRISONAS.

En la zona descubierta, junto a la maquinaria agrícola, se

pueden encontrar los ejemplares participantes en:

EXPOSICIÓN DE OVINO COMARCAL.
(MACHOS CAPRINOS) del VI CONCURSO ARAGONÉS DE CHOTOS.
SUBASTA AUTONÓMICA DE VACUNO PIRENAICO.
SUBASTA AUTONÓMICA DE VACUNO FLEKVIEH.
Ier. CONCURSO-EXPOSICIÓN DE LA GALLINA DEL SOBRARBE (variedades Negra, Trigueña, Plateada, Azul y Barrada)

La Organización de FEMOGA 2002, dispondrá en la zona de maquinaria, UN PARQUE INFANTIL, y la empresa HÍPICA EL CERRAO, ofertará paseos a caballo durante los tres días de feria.

En el Pabellón de Monegros Turístico exposición permanente :
“En los Monegros con los cinco sentidos”

Exposición de las fotografías participantes en el Ier. CONCURSO DE FOTOGRAFÍA ANTIGUA “COMARCA DE LOS MONEGROS”, ubicada en el Pabellón del Automóvil

A las 20,30 horas:
En el escenario de la zona de bar, actuación musical.

DIA 21 DE SEPTIEMBRE, SABADO

10,00 horas: Calificación por parte del jurado de los lotes de chotos participantes en el VI CONCURSO ARAGONÉS DE CHOTOS (Machos caprinos) expuestos en la zona ganadera.

11,00 horas: SUBASTAS AUTONÓMICAS DE GANADO VACUNO:
-PIRENAICO
-FLECKVIEH

11,45 horas: SUBASTA AUTONÓMICA DE GANADO VACUNO DE ALTA GENÉTICA.
Novillas de raza Frisón-Holstein.

12,00 horas: SUBASTA AUTONÓMICA DE GANADO OVINO “Rasa Aragonesa”

Entrega de obsequio a los ganaderos participantes en la Exposición Comarcal de ganado ovino y SORTEO ENTRE TODOS LOS PARTICIPANTES DE DOS SEMENTALES DE RASA ARAGONESA.

A continuación, en el escenario de la zona de protocolo XII JORNADA EXALTACIÓN AL PASTOR ARAGONÉS, haciéndose entrega de placas conmemorativas acompañados de los sones de los Gaiteros de Sariñena.

12,30 horas: Diaporama sobre LA LAGUNA DE SARIÑENA Y SU ENTORNO, con pases comentados a cargo de D. Ramiro Muñoz Rodrigo (Biólogo) en el Pabellón de Monegros Turístico.

18,00 horas: Calificación de los lotes expuestos de aves participantes en el I CONCURSO-EXPOSICIÓN DE LA GALLINA DEL SOBRARBE. Juez-calificador: D. Amadeu Francesch (Jefe Unidad Genética Avícola de IRTA-Cataluña).

19,00 horas: Mesa Técnica en la Sala Flumen: Estudio y adaptación del

prototipo racial de la Gallina de Raza Sobrarbe. Coordinada por Dr. Amadeu Francesch (Jefe Unidad Genética Avícola de IRTA-Cataluña).

20,00 horas: En la misma sala, Constitución de la Asociación de Criadores de la Gallina del Sobrarbe y fallo y entrega de premios del 1er. Concurso de la citada especie.

20,00 horas: El municipio de SENA obsequiará a los visitantes con actuaciones musicales de un Grupo de la localidad, en el escenario de la zona de protocolo.

20,30 horas: En el mismo escenario, Femoga homenajeará al EXPOSITOR distinguido por su fidelidad a la feria a lo largo de las diecisiete ediciones, y se hará entrega de los trofeos a la MEJOR PRESENTACIÓN DE EXPOSICIÓN EN PABELLÓN COMERCIAL, PABELLÓN DEL AUTOMÓVIL, ZONA DE MAQUINARIA, LOTE GANADERO, PRODUCTO MÁS NOVEDOSO Y POR MAYORES MEDIOS DE CONSERVACIÓN EN PRODUCTOS ALIMENTICIOS EN STAND COMERCIAL.

A continuación, se entregarán los PREMIOS DEL CONCURSO DE FOTOGRAFÍA ANTIGUA "COMARCA DE LOS MONEGROS".

DIA 22 DE SEPTIEMBRE, DOMINGO

Día especialmente dedicado al Municipio y Comarca invitada, en esta ocasión:

Representando a los MUNICIPIOS DE LA COMARCA DE "LOS MONEGROS": SENA.

COMARCA DE LA COMUNIDAD AUTÓNOMA DE ARAGÓN INVITADA: ALTO GÁLLEGO.

11,00 horas: Degustación popular de las "migas a la pastora" que la organización ofrecerá a todos los ganaderos y visitantes.

11,30 horas: "Clases de adiestramiento de perros pastores para todos los ganaderos que vengan acompañados con sus perros", impartidas por Fermín Ainzua Abad.

12,30 horas: Diaporama a cargo de Ramiro Muñoz, (biólogo) en el Pabellón de Monegros Turístico sobre Los Monegros y el Paisaje.

17 horas: Espectáculo con perros Border Colie, con ovejas y ocas, a cargo de Fermín Ainzua Abad.

En el transcurso de este acto tendrá lugar la entrega del "TRUCO" de oro al 1 er clasificado, plata al 2º clasificado y bronce al 3 er clasificado, a los mejores clasificados del VI CONCURSO ARAGONÉS DE MACHOS CAPRINOS (CHOTOS), expuestos durante toda la feria en los pabellones habilitados con tal fin.

Asimismo, se sortearán DOS SEMENTALES DE OVINO "RASA ARAGONESA" entre los ganaderos visitantes de los stands de ANGRA o CARNES OVIARAGÓN.

19,00 Horas: ACTUACIÓN DEL BALLETO NACIONAL DEL CAÚCASO "Los Cosacos del Cáucaso". Grupo integrado en el Consejo de Interés Folklórico y Tradiciones Universales de la Unesco.

19,30 horas: Recepción de Autoridades en el recinto ferial quienes, a continuación iniciarán el recorrido por los diferentes stands, como prólogo al acto de Clausura de la XVII Feria Industrial, Agrícola y Ganadera de Los Monegros Femoga 2002 que tendrá lugar en el escenario de la zona de protocolo, y en cuyo transcurso se rendirá homenaje a las personas que se han distinguido por su colaboración con la feria a lo largo de su trayectoria.

NOTAS DE INTERÉS

Durante toda la feria permanecerán en exposición animales de las siguientes especies:

Ganado Ovino "Rasa Aragonesa".

Ovino comarcal.

Machos caprinos.

Vacuno Frisón, Pirenaico, Fleckvieh.

Gallinas del Sobrarbe (variedades Negra, Trigueña, Plateada, Azul y Barrada)

Caballos

La Organización se reserva el derecho de alterar o modificar cualquier acto.

I CONCURSO-EXPOSICIÓN DE LA GALLINA DEL SOBRARBE

Organiza: Fundación Pirineos y FEMOGA

PROGRAMACIÓN

JUEVES, DÍA 19 DE SEPTIEMBRE

Recepción de animales y distribución en las jaulas.

VIERNES, DÍA 20 DE SEPTIEMBRE

Presentación de las aves expuestas, según variedades de color: negra, trigueña, plateada, azul y barrada.

SÁBADO, DÍA 21 DE SEPTIEMBRE

18,00 horas: Calificación de los lotes expuestos, por el Dr. Amadeu Francesch, Jefe Unidad Genética Avícola de IRTA-Cataluña.

20,00 horas: MESA TÉCNICA en la Sala Flumen: Estudio y adaptación del prototipo racial de la Gallina de Raza Sobrarbe. Coordinada por el Dr. Amadeu Francesch.

21,00 horas: Constitución de la Asociación de Criadores de Gallina de Raza Sobrarbe.

PREMIOS:

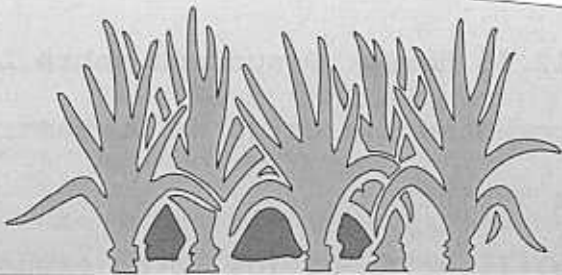
- Premio a las AVES CLASIFICADAS EN 1º Y 2º PUESTOS DE CADA VARIEDAD.
- PREMIO ESPECIAL a la Mejor Ave.
- Obsequio a todos los participantes.

2002

Annuaire
des économies
agricoles
et alimentaires
des pays
méditerranéens
et arabes

Yearbook
of agricultural
and food
economies
in the
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développement et politiques agro-alimentaires dans la région Méditerranéenne



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151 *I C S Bueno, A L Abdalla, S L S Cabral Filho, D M S S Vitta, E Owen, R M Mauricio, I Givens, J D Sutton & F L Mould*

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152 *M Rezaeian, D S Parker & G W Beakes*

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153 *S T Strojan & C J C Phillips*

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154 *S Nagadi, M Herrero & N S Jessop*

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155 *S Fakhri, A R Moss, D I Givens & E Owen*

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156 *G Gizzi, E R Deaville & D I Givens*

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157 *C Rymer & D I Givens*

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158 *A M Tahmasbi, H Galbraith & J R Scaife*

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159 *A M Tahmasbi, H Galbraith, J R Scaife & D Finn*

The effects of amino acid supply on the sensitivity of IGF-1 secretion to growth hormone stimulation in ovine hepatocytes

160 *N M Wheelhouse, D G Hazelrigg, J C MacRae & M A Lomax*

The effects of amino acid supply on total and individual cellular protein synthesis in ovine hepatocytes

161 *D G Hazlerigg, N Soutoyiannis, P Cash & N M Wheelhouse*

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162 *T J Wester, G E Lobley, L M Birnie & M A Lomax*

The effect of rumen protected protein on plasma insulin, IGF-1 and glucose in sheep

163 *K N Muturi, L M Birnie, J Struthers, N M Wheelhouse & M A Lomax*

Effects of intravenous isoproterenol (β -agonist) administration on expression and synthesis of ovine uncoupling protein 1

164 *D S Finn, P Trayhurn, J Struthers & M A Lomax*

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165 *F J Lewis, M E E McCann, H Schulze, J McEvoy & K J McCracken*

The effects of wheat variety on diet digestibility and on performance parameters of pigs from 10 - 20 kg

166 *F J Lewis, H Schulze, J McEvoy & K J McCracken*

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167 *K J McCracken, V E Beattie, R N Weatherup, R W Henry & S Smyth*

The effect of phosphorus concentration and the use of phytase enzyme in pig diets on growth performance and bone characteristics of finishing pigs

168 *R N Weatherup, V E Beattie, K J McCracken, S G McIlroy & R W Henry*

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169 *J Morales, J F Pérez, F Baucells & J Gasa*

The effect of protease pre-treatment of raw or micronized soyabean meal on the growth performance and carcass composition in liquid fed grower and finisher pigs

170 *J D Beal, P H Brooks & H Schulze*

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171 *J E Thompson & J Wiseman*

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172 *K Hillman & S P McFarland*

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173 *P Toplis & H M Miller*

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174 *A G Sinclair, V C Bland & S A Edwards*

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175 *B P Gill, P J Blanchard, J P Chadwick & K Stickney*

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176 *A R Peters, L A Dwyer, A Dawson, P A Canham & J D Mackinnon*

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177 *H Wilson, A G Sinclair, F D DeB Hovell, R W Mayes & S A Edwards*

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178 *R M Forde, J N Marchant & H A M Spooler*

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179 *R H Bradshaw & D M Broom*

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180 *R J Wynn, H A M Spooler & R M Kay*

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181 *H F Lee, M C Appleby & C A Morgan*

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182 *H W Gonyou, C Peterson & K Getson*

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183 *J L Durrell, V E Beattie & I A Sneddon*

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184 *D S Arey, J Messinger & M Nobre*

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185 *J N Marchant, R M Forde, S Corning & D M Broom*

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186 *N S Prathalingam, S A Edwards, F M Davidson, W Healey, L Prieto, A Tarongi & P R English*

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187 *J Rigat, S A Edwards & P R English*

The effect of parity, litter size and sow body reserves on Ig content of sow colostrum

188 *L Prieto, N S Prathalingam, A Tarongi, F M Davidson, P R English, J A Rooke, M Ewen & S A Edwards*

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189 *I M Bland, J A Rooke, V C Bland, A G Sinclair and S A Edwards*

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190 *S W Kim, W L Hurley & R A Easter*

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191 *N E O'Connell, V E Beattie & B W Moss*

The influence of environmental enrichment on behaviour, performance and meat quality of domestic pigs

192 *V E Beattie, N E O'Connell & B W Moss*

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193 *P L Sensky, T Parr, G P Scothern, R G Bardsley, P J Buttery, J D Wood & C C Warkup*

The effect of breed on calpastatin isoforms and longissimus shear force in pigmeat

194 *P L Sensky, T Parr, R G Bardsley, P J Buttery, & C C Warkup*

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195 *K M Millar, S M Tomkins & T B Mepham*

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196 *M F Seabrook & J M Wilkinson*

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197 *G E Pollott*

The effect of days in milk and physiological state (number of mammary glands milked) on the partitioning of increments of metabolisable energy in dairy cows

198 *R M Kirkland & F J Gordon*

To determine the relationships between age, weight and size in Holstein heifers between 100 and 300 kg liveweight

199 *H J Biggadike, C A Collins, S B Drew & P N Johnson*

Genotype by nutrition interactions from Langhill dairy cows in three lactations

200 *J E Pryce, G Simm, R F Veerkamp & J D Oldham*

Choice feeding of mid lactation dairy cows offered different levels of effective rumen degradable protein concentrate and grass silage *ad libitum*

201 *R E Lawson & J M Forbes*

Effect on milk production in dairy cows of feeding grass silage and maize silage as a mixture, or separately within days, or on alternate days, with low or high protein supplements

202 *J S Syed & J D Leaver*

Estimating meal criteria for meal pattern analysis of dairy cows

203 *B J Tolkamp, D J Allcroft & I Kyriazakis*

Milk production from dairy cows fed an alternative to fish meal

204 *R D Allison & P C Garnsworthy*

Effect of dietary protein levels on milk yield and composition of cows infused into absomasum with methionine and lysine

205 *E Smoler, A Arieli, I Bruckental, A Bor, S Abrhamson, S Zamwell, M Nicbachat & H Lerrer*

Prediction of milk protein content from elements of the Metabolisable Protein System and the effect of ether extract on prediction precision of models

206 *E Smoler*

A comparison of the prediction of intake and milk yield in high yielding dairy cows using either the UK rationing system or the Cornell Net Carbohydrate and Protein System

207 *R J Mansbridge, J S Blake & I Bending*

Milk production from dairy cows offered perennial ryegrass selected for high water soluble carbohydrate concentrations compared to a control grass

208 *L A Miller, M A Neville, D H Baker, R T Evans, M K Theodorou, J C MacRae, M O Humphreys & J M Moorby*

The occurrence of conjugated linoleic acid in the milk of dairy cows

209 *A L Lock & P C Garnsworthy*

RUMINANT NUTRITION

Conditioned feeding responses in sheep towards flavoured foods associated with casein administration: the role of long delay learning

210 *G Arsenos, J Hills & I Kyriazakis*

Characterisation and evaluation of a commercial enzyme for improving the nutritive value of ruminant feeds

211 *D Colombatto, M K Bhat, F L Mould & E Owen*

Influence of ammonia concentration on [15 N] ammonia uptake and *de novo* synthesis of different amino acids by mixed rumen microorganisms from the sheep rumen *in vitro*

212 *C Atasoglu, C J Newbold & R J Wallace*

Comparison of procedures for estimating microbial contamination of feed residues in the *in situ* bag procedure of measuring protein degradation in the rumen of sheep
213 *F K Avornyo & E L Miller*

Comparison of 15 N and purines as microbial markers in a RUSITEC system
214 *M D Carro & E L Miller*

Microbial contribution to the duodenal flow of purine bases in cattle
215 *F Vicente, J A Guada, J Balcells & C Castrillo*

Effect of feeding level and substitution of barley grain by citrus pulp in ammonia-treated straw diets on digestibility and microbial synthesis efficiency in sheep
216 *A Barrios-Urdaneta, C Castrillo, M Fondevila & F Vincente*

An examination of the effect of concentrate energy source on rumen fermentation characteristics of dairy cattle offered grass silages of differing intake characteristics
217 *T W J Keady, C S Mayne & D A Fitzpatrick*

The prediction of methane production in dairy and beef cattle offered grass silage-based diets
218 *T Yan, R E Agnew, F J Gordon & M G Porter*

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Characterisation and comparison of the lipids of the epidermis of the equine hoof wall and sole
219 *E Grant, J R Scaife & M Birnie*

Evaluation of external claw dimensions and internal solear soft tissue characteristics in Holstein-Friesian female cattle of varying ages
220 *D E Cross, H Galbraith, D Finn & M Birnie*

The incidence of lameness in a group of dairy herds in England
221 *M A Kossaibati & R J Esslemont*

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The effect of dietary energy source on diet digestibility and growth performance of rainbow trout
222 *R N Weatherup & K J McCracken*

Nutritive value of caecum microorganism and caecotrophes in rabbits
223 *J M Ganuza, J Balcells, J F Pérez, M Fondevila & D S Parker*

Growth and carcass characteristics of camels given different levels of protein and energy in Iran
224 *Y Rouzbehan, A Shadmanesh, N Debiri & M Eslami*

The effect of 'flavour imprinting' on the acceptability of solid food in weanling rats
225 *J E L Day, E A J Randall & R M Sibly*

PROGRAMME ANNUAL MEETING 2000

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- 1 Effects of legume silages on the quantity and particle size distribution of rumen contents in Holstein-Friesian cows
R J Dewhurst, R J Merry, D R Davies, J M Moorby, N D Scollan, M A Neville & D H Baker
- 2 Prediction of intake potential of unwilted grass silage by dairy cows
P Huhtanen, H Khalili, J I Nousiainen, S Jaakkola, T Heikkila & J Nousiainen
- 3 The biologically relevant unit for the analysis of short-term feeding behaviour of dairy cows
D P N Schweitzer, B J Tolkamp & I Kyriazakis
- 4 Effect of ingestive mastication on the shear property of fresh grass fed to steers indoors at two stages of maturity and two chop lengths
A Boudon, C S Mayne, A S Laidlaw & J-L Peyraud
- 5 An assessment of the contribution of plant proteinases to proteolytic digestion in the rumen of sheep
R J Wallace, S J A Wallace & N McKain

Pigs I

- 6 The effects of increased dietary salt concentration on performance and behaviour of finishing pigs
V E Beattie & R N Weatherup
- 7 Feeder space requirement of growing pigs housed at different group size
S P Turner, D S Arey & S A Edwards
- 8 Influence of feeder type on the performance and behaviour of weaned pigs
N E O'Connell, V E Beattie & R N Weatherup

Dairy Cows

- 9 The effect of stage of lactation in dairy cattle on the partitioning of increments of metabolisable energy between milk and body tissue
R M Kirkland & F J Gordon
- 10 Lactational performance and energy utilisation in high yielding cows
D E Beaver, A J Hattan, S B Cammell, D J Humphries & A K Jones
- 11 Intake and milk production responses to legume silages offered to Holstein-Friesian cows
R J Dewhurst, D W R Davies, W J Fisher, J Bertilsson & R J Wilkins
- 12 A comparison of four contrasting milk production systems for high genetic merit winter calving dairy cows in a grassland based production environment
C P Ferris, F J Gordon, D C Patterson & C S Mayne
- 13 The effect of heifer rearing regime on body size and milk production during the first lactation
A F Carson, L E R Dawson & F J Gordon
- 14 An assessment of potential metabolic determinants of reproductive cycle problems identified through milk progesterone monitoring during the service period in lactating dairy cows
G E Mann, S J Mann, C Freeston-Smith, Z Daniel, M Miles, P Garnsworthy & R Webb.

Cattle and Sheep Genetics

- 15 Estimation of genetic variation in the LH response to a GnRH challenge in pre-pubertal Holstein-Friesian heifers
M D Royal, A O Darwash, A P F Flint, R Webb, G E Lamming & J A Woolliams
- 16 Genetic analysis of mastitis in dairy cattle with a Bayesian threshold model
H N Kadarmideen, R Rekaya & D Gianola
- 17 Genetic control of the periparturient rise in faecal egg counts in Scottish Blackface ewes facing mixed, natural nematode infections
S C Bishop & M J Stear
- 18 Heritabilities of, and correlations between, faecal egg counts and cashmere traits in goats
D Vagenas, S C Bishop, F Jackson, M Merchant & A J F Russel

Pigs II

- 19 The response of gilt body composition to low and high dietary protein during lactation
P C Penny & H M Miller
- 20 Genotype with nutrition interaction for protein and lipid deposition in pigs
N D Cameron
- 21 Effect of xylanase addition in feed containing either pre-characterised wheat or wheat by-products on the performance of growing pigs
D J Cadogan, G G Partridge & P H Simmins
- 22 Serum leptin concentration in pigs selected for high or low daily food intake
N D Cameron, J C Penman & E McCullough
- 23 Testing two theories of feed intake using the effect of temperature on the intake of bulky feeds in pigs
E C Whittemore, I Kyriazakis, G C Emmans, B J Tolcamp, P W Knap, P H Simmins & S Jagger

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- 24 Changes with time in the short chain fatty acid profile during *in vitro* incubations of feeds with rumen fluid and their effect on the prediction of ATP production
C Rymer, D I Givens & B R Cottrill
- 25 The additivity of predicted ATP yields from feedstuffs incubated *in vitro* with rumen fluid
A R Moss, C Rymer, S Fakhri & D I Givens
- 26 A comparison between *in situ* and *in vitro* measurement of rumen degradability of Brazilian feeds
I C S Bueno, S P Gobbo, A L Abdalla & S L S Cabral Filho
- 27 Fibrolytic enzyme mixtures as an alternative to rumen fluid for assessing feed degradation kinetics *in vitro*
D Colombatto, F L Mould, M K Bhat & E Owen

Ethology and Welfare

- 28 The performance and behaviour of finishing beef cattle accommodated during the winter on different floor types
D E Lowe, R W J Steen & V E Beattie
- 29 Subliminal perception of colour by cattle
C J C Phillips & C A Lomas

- 30 Behavioural and heart rate responses of cows and calves to each other's vocalisations after early separation
J N Marchant, R M Forde & D M Weary
- 31 The effects of straw availability for nest-building on maternal reactivity of crated sows after farrowing
J N Marchant, K H Jensen & R M Forde
- 32 The effects of stocking density and pen shape on the behaviour, incidence of aggression and subsequent skin damage of sows mixed in a specialised mixing pen
C M Docking, R M Kay, X Whittaker, A Burfoot & J E L Day

Ruminant Health and Nutrition

- 33 Effects of protein and energy supply on the resistance to nematodes in pregnant ewes
J G M Houdijk, I Kyriazakis, F Jackson & R L Coop
- 34 Protein nutrition, reproductive effort and resistance to nematodes in lactating ewes
J G M Houdijk, I Kyriazakis, R L Coop & F Jackson
- 35 Effects of continuous intake of condensed tannins on parasitised sheep
S Athanasiadou, I Kyriazakis, R L Coop & F Jackson
- 36 An examination of the effects of level of energy intake and source of nutrients during late gestation on subsequent milk yield and composition of lactating dairy cattle
T W J Keady, C S Mayne & D A Fitzpatrick

Breeding and Genetics I

- 37 Returns from genetic improvement in dairy cattle over a twenty year horizon
J E Pryce, G Simm, P R Amer, M P Coffey & A W Stott
- 38 Relative weights on pedigree information and performance in evaluations based on a test day model
R A Mrode, G J T Swanson & C M Lindberg
- 39 A bio-economic approach to estimating economic values for UK hill sheep
J Conington, S Bishop, A Waterhouse & G Simm
- 40 The effect of stage of growth on the genetic and phenotypic parameter estimates of food intake in pigs using a covariance function model
A D Hall, P R Bampton & A J Webb

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- 41 Characterisation and mapping of the Booroola (*FecB*) gene using regression analysis in sheep
G A Walling, K G Dodds, S M Galloway, A E Beattie, E A Lord, J M Lumsden, G W Montgomery & J C McEwen
- 42 Genomic contributions in a cattle introgression program
E E Wall, J A Woolliams & P M Visscher
- 43 The consequences of carrying the Booroola fecundity (*FecB*) gene on sheep liveweight
G A Walling, K G Dodds, S M Galloway, A E Beattie, E A Lord, J M Lumsden, G W Montgomery, and J C McEwen
- 44 Reproductive performance of the Thoka Cheviot sheep
S M Rhind, G Gittus, J M Potts & S C Bishop

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- 45 The effect of laboratory on the rate and extent of gas production *in vitro*
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- 46 Development of a radio-immunoassay (RIA) for bovine and ovine leptin
A R G Wylie, A J Bjourson & D J Devlin
- 47 Value of ADIN as a measure of unavailable nitrogen in treated rapeseed meal
A R Moss, J A Metcalf & D I Givens
- 48 Predicting the *in vitro* gas production profile of dried grass with strained rumen fluid from the *in vitro* gas production profile of dried grass with faeces
C Rymer & D I Givens
- 49 The use of extracted lignin from steam-treated wheat straw to protect protein from rumen microbial degradation
M Zahedifar, F B Castro & E R Orskov
- 50 Mixture design to study *in vitro* associative effects of feed mixtures
C A Sandoval-Castro, J Barrera, L Capetillo & R Cetina
- 51 Application of the *in vitro* Reading Pressure Technique to demonstrate the patented Regulated Release™ technology incorporated in a number of molasses-based liquid feeds
E Mackintosh & F L Mould
- 52 The *in vitro* fermentation profiles of a number of commercially available sugar cane molasses-based liquid feeds described using the Reading Pressure Technique
F L Mould & E Mackintosh
- 53 The influence of rumen fluid pH on the rate and extent of maize silage and wheat straw degradation estimated *in vitro* using the Reading Pressure Technique
F L Mould, R M Mauricio, T Smith & E Owen
- 54 Biochemical and *in vitro* assessment of six enzyme preparations as potential feed additives
D Colombatto, F L Mould, M K Bhat & E Owen
- 55 Cloning and properties of a lysozyme from the rumen ciliate protozoan, *Entodinium caudatum*
S C P Eschenlauer, N R McEwan, R Onodera, R J Wallace & C J Newbold
- 56 Influence of growing conditions on rumen escape protein and chemical composition in grass
J W Cone, A H van Gelder, A A Kamman & V A Hindle
- 57 Comparison of digestibility coefficients in different farm animal species
A M Roosenstein, J W Cone & A C Beynen
- 58 Effect of a dried live yeast culture on *in vivo* apparent digestibility and on *in vitro* fibrolytic activity of large intestine fluid contents, in horses fed high fibre or high starch pelleted feeds
B Medina, D Poillon, R Power & V Julliard
- 59 The influence of urea and white rot fungi on the nutritional value of wheat straw
Y Rouzbehan, H Fazaeli & A Kiani
- 60 Effect of the anti bloat agent poloxalene on n-alkane concentration in cattle faeces
R Nuthall, S M Rutter & A J Rook

- 61 The impact of particle size on the rate and extent of *in vitro* fermentation investigated using the Reading Pressure Technique
F L Mould, D Colombatto & E Owen

Sheep Genetics

- 62 Additive direct and maternal breeding values of imported sires in the nucleus flock of a cooperative sheep breeding group
K Woodington & I Ap Dewi
- 63 Effect of sire and dam origins on the weaning weight of Welsh Mountain lambs produced by embryo transfer
I Ap Dewi, E Evans & O Davies
- 64 Genetic resistance to internal parasites in lambs
K L Howells, B T Wolf, W Haresign, R M Lewis & M H Davies
- 65 Genetics of maternal behaviour in Scottish Blackface sheep under field conditions: factors affecting maternal behaviour scores and their influence on lamb liveweights and survival
N R Lambe, J Conington, S C Bishop, A Waterhouse & G Simm
- 66 A comparison of Scottish Blackface and Wicklow Cheviot ewes and five sire breeds in terms of lamb output in hill sheep systems
A F Carson, D Irwin & D J Kilpatrick
- 67 The effects of genotype of crossbred ewes, evaluated under lowland conditions, on lamb output
L E R Dawson & A F Carson

Beef and Dairy Cattle

- 68 The effect of a formulation of natural essential oils used as an additive with a milk replacer and a compound feed on the feed efficiency of calves
H M R Greathead, J M Forbes, D Beaumont & C Kamel
- 69 A comparison of milled and rolled lupin seeds and soya bean meal as protein sources for young beef cattle
S D Webster, K P A Wheeler & H F Grundy
- 70 The effect of abrupt and frequent changes in forage quality on nitrogen balance in crossbred steers fed napier grass (*Pennisetum purpureum*) and barley straw
I A Sanda, D L Romney, J Tanner, P Thorne & J D Leaver
- 71 The effect of composition of gain during a winter store period on carcass characteristics in beef steers
S L Phillip, N S Prathalingham, D G Chapple, M A Lomax & L Heasman
- 72 Intake, growth rate and carcass quality of beef cattle fed forage mixtures of grass silage and maize silage
E M Browne, M J Bryant, D E Beever & A V Fisher
- 73 The effect of fodder beet inclusion on nitrogen and energy utilisation of grass silage based diets by beef steers
D G McIlmoyle, D C Patterson & D J Kilpatrick
- 74 Performance responses and partitioning of nutrients in steers fed on either grass silage or grass silage and concentrate at similar levels of metabolisable energy intake
E J Kim, A Cooper, D S Parker, J M Dawson, P J Buttery, M S Dhanoa & N D Scollan
- 75 Effect of inclusion of varying levels of green gram (*Vigna radiata*) Chuni in concentrate mixtures on nutrient utilization in native male buffaloes
D S Rao, G Radhakrishna, Z Prabhakara Rao & J Rama Prasad

- 76 Combining grazing with different periods of access to an indoor diet to alleviate high rates of decline in milk yield of dairy cows
O Hernandez-Mendo & J D Leaver
- 77 The effects of composition of gain during a winter store period on carcass composition determined by Velocity of Sound Scanning (VOS) at spring and autumn in beef steers
N S Prathalingam, L Heasman, J Struthers, J Parker, D G Chapple & M A Lomax

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- 78 Simple mixes of molassed sugar beet feed and distillers grains for lactating ewes
D G Chapple, K P A Wheeler, G Perrott & M Witt
- 79 Effects of protein source and formaldehyde treatment on the metabolism and performance of pregnant and lactating ewes fed straw
D Handford, S E Pattinson, L A Sinclair & R G Wilkinson
- 80 The effect of nutritionally mediated placental growth restriction in adolescent sheep on the yield, nutrient composition and immunoglobulin content of colostrum
L Davidson, R P Aitken, D A Bourke & J M Wallace
- 81 The effect of the pea to wheat ratio and harvest date on the voluntary feed intake, *in vivo* digestibility and nitrogen retention of pea-wheat bi-crop silages by sheep
A T Adesogan, M B Salawu & E R Deaville
- 82 Conditioned feeding responses of sheep towards food flavours associated with administration of ruminally degradable and/or undegradable protein sources
G Arsenos, B J Tolkamp & I Kyriazakis
- 83 Growth and carcass characteristics of three lamb genotypes finished on the same level of feeding
A F Carson & L O W McClinton

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- 84 Bioavailability of dietary copper and zinc proteinates and sulphates in adult Texel sheep
J P Ryan, P Kearns & T Quinn
- 85 Effect of legume silages fed to Holstein dairy cows on plasma alpha-tocopherol concentration, milk alpha-tocopherol and malonic dialdehyde in milk samples stored at 4°C and 20°C
R M Al-Mbruk, N F G Beck, R J Dewhurst & N T Faithfull
- 86 A comparison of the responses of dairy cows with high and low milk yield potential to the application of sodium fertilizer
C J C Phillips & P C Chiy
- 87 Somatic cell count and reduction in antibiotic use in dairy cows by dietary supplementation with trace elements and vitamins given as a ruminal bolus system
R G Hemingway, J J Parkins, N S Ritchie & D J Taylor
- 88 The effect of molybdenum, sulphur and iron on the copper status of store lambs
A M Mackenzie, S Evans, J N C Lynn, D V Illingworth & R G Wilkinson

Ruminant Nutrition

- 89 An evaluation of the effects of rate of nitrogen fertilisation and stage of maturity on degradability of grass in the rumen
T W J Keady, C S Mayne & D A Fitzpatrick
- 90 An examination of rate of nitrogen fertiliser, date of harvest and additive treatment on degradability of grass silage in the rumen
T W J Keady, C S Mayne & D A Fitzpatrick
- 91 Rumen and post-rumen digestion in lactating dairy cows fed fat from three sources
C K Reynolds, D J Humphries, J D Sutton, B Lupoli, R H Phipps & D E Beever
- 92 Replacement of soyabean meal by maize distillers grains for lactating dairy cows
J D Sutton, D J Humphries & M Witt
- 93 The nutritive value of wheat for ruminants: Factors affecting starch content and availability to the rumen
A R Moss, D I Givens & M Froment
- 94 Prediction of methane emissions from dairy cows using multiple regression analysis
C M Yates, S B Cammell, J France & D E Beever
- 95 Validation of the UK metabolisable energy system and other energy systems
T Yan & R E Agnew
- 96 The effects of sequence of feed allocation within the day on microbial protein production and diet digestibility in lambs fed barley or sugar beet based diets
J M Richardson, L A Sinclair & R G Wilkinson
- 97 Effect of diets formulated to contain similar amounts of ERDP with different protein sources on blood free and peptide-bound amino acid-N concentrations in Iranian Baloochi lambs
M. Danesh Mesgaran
- 98 The maize crop as a source of food and feed for livestock on smallholder dairy farms in the Kenyan highlands
B A Lukuyu, D L Romney, J C Tanner & W Thorpe
- 99 Effects of the addition of polyunsaturated fatty acids on rumen degradation of dry matter and neutral detergent fibre of Guinea grass (*Panicum maximum*) in Pelibuey sheep
J Herrera-Camacho, J C Ku-Vera, J A Quintal-Franco, L G Williams & R Quijano-Cervera
- 100 Intake and apparent digestibility of hay, haylage, big bale and clamp silage by ponies
M Moore-Colyer & A C Longland
- 101 The effect of feeding dairy cattle during the transition phase on dry matter intake, blood metabolites, milk yield and milk composition
J K Margerison, B Winkler, K Mowll, R Derrick, E Mcintosh & M Graham

PIGS III

- 102 The effect of choice feeding during the rearing period on reproductive function in the gilt
S R L Lucas, J A Rooke, V C Bland, A G Sinclair & S A Edwards
- 103 Litter performance and glucose tolerance in lactating gilts of two different genotypes in response to choice-feeding in the pre-pubertal stage and pregnancy
G M Jones, S A Edwards, A G Sinclair, F E Gebbie, J A Rooke, S Jagger and S Hoste
- 104 The effect of feeding sows an increased feed level from day 28-56 of gestation on progeny performance
P C Penny & M A Varley

- 105 The effect of feeding salmon oil during pregnancy on causes of piglet deaths prior to weaning
R Cordoba, S Pkiyach, J A Rooke, S A Edwards, P C Penny & I Pike
- 106 Supplement containing immunoglobulins fed post weaning promotes nursery pig performance
H M Miller & P Toplis
- 107 Effect of dietary energy intake during pregnancy on liveweight gain and backfat gain of primiparous sows kept in an outdoor system under tropical conditions
R H Santos Ricalde & I J Lean

Genetic (Cattle)

- 108 Finishing performance of progeny of Continental cross suckler cows by two sire breeds
D G Chapple, H F Grundy, R Keatinge & R F Sadler
- 109 Estimation of lactation curve parameters for Iranian Holstein dairy cows using non-linear models
H Farhangfar, P Rowlinson & M B Willis
- 110 The economic value of somatic cell counts
A W Stott, G Gunn, R Humphry, R Berry, H Richardson & D Logue
- 111 Relationships between bull proofs for lifespan (LS) in the United Kingdom (UK) and various countries
C M Lindberg, G J T Swanson & R A Mrode
- 112 Sensitivity of genotypes to feeding systems for production, weight and feed intake in dairy cattle
J E Pryce & R F Veerkamp
- 113 Effect of relationship between mastitis and somatic cell count on genetic selection for mastitis resistance in dairy cattle
H N Kadarmideen & J E Pryce
- 114 An examination of the effects of level of concentrate supplementation of dairy cattle in late gestation on subsequent reproductive performance
T W J Keady, C S Mayne, D A Fitzpatrick & M A McCoy

Pigs IV

- 115 Effects of feeding space on growing pigs housed with a reduced level of floor space
P C Penny & P J Penny
- 116 Component digestibility in cannulated and intact pigs fed diets containing different raw materials
J E Thompson & J Wiseman
- 117 The use of an *in vitro* nitrogen digestibility screening method to assess the effect of protease pre-treatment of soyabean meals
J D Beal & P H Brooks
- 118 Cassava leaves as protein supplement to basal diet for weaner pigs in a sustainable swine production system in the tropics
E A Iyayi, E O Dada & O O Fakunle
- 119 Liquid diets fed prior to weaning enhance performance of weaned piglets
P J Blanchard, P Toplis, L Taylor & H M Miller
- 120 Early post-weaning benefits of porcine plasma re-emerge in later growth performance
R D Slade & H M Miller
- 121 Kola-pod husk as a partial substitute for maize in layer diets
O Olubamiwa, E A Iyayi, E A Ayodele & B A Adebowale

- 122 Factors affecting the eating quality of pork
M J Van Oeckel, N Warnants & Ch V Boucqué
- 123 Changes in the relationship between porcine fetal size and organ development during pregnancy
P F N Silva, A M Finch, C Antipatis & C J Ashworth

Environment and Ethology

- 124 Preferences of housed finishing beef cattle for different floor types
D E Lowe, R W J Steen & V E Beattie
- 125 An examination of factors affecting the dirtiness of housed finishing beef cattle
J C O'Hagan & R W J Steen
- 126 Biochemical, biomechanical and histological analyses of failure of supportive structures in cattle hooves
J F Tarlton & A J F Webster
- 127 Diet and hoof health: a comparison between high starch and high fibre diets
R H Phipps, R Blowey, D E Beever, C K Reynolds, A K Jones, J G Perrott & M Witt
- 128 Effect of stage of development and pre-natal nutrition on hoof characteristics of fetal sheep
K Howard, M Birnie & H Galbraith
- 129 Individual differences in sociability and their consequences for foraging behaviour in sheep
A M Sibbald, D J F Smith & R J Hooper
- 130 Relationship between tail-biting and aggression in pigs reared in two different environments
N E O'Connell & V E Beattie
- 131 The effects of handling and environmental enrichment on the welfare of finishing pigs
H L Chamberlain, S A Edwards & J E L Day
- 132 The effect of an environmental enrichment device - the PECKABLOCK™ - on the behaviour and growth performance of broiler chicks
J H Guy, N R Guy & R A Phillips
- 133 The effects of offering different degrees of social contact in indoor farrowing systems on the welfare of piglets post-weaning
S Malkin, J N Marchant & J E L Day
- 134 Variation in behavioural style during an attack latency test: a potential source of additional information about aggressiveness in young pigs
H E Pickup & R B D'Eath
- 135 The effect of mixing litters pre weaning on the performance of piglets pre and post weaning
L North & A H Stewart
- 136 Effects of re-grouping on behaviour, immune function and production in sows
D S Arey, A Sinclair, S A Edwards & J A Rooke
- 137 Reproductive behaviour and performance of gilts bred at the same age but at different post pubertal heat in a dynamic service system
D F Grigoriadis, S A Edwards, P R English & F Davidson
- 138 Effect of dietary energy intake during pregnancy on grazing behaviour of primiparous sows kept in an outdoor system under tropical conditions
R H Santos Ricalde & I J Lean
- 139 Assessment of hypothermia in outdoor newborn piglets and comparison with an indoor system
G R Riart, S A Edwards and P R English

- 140 Seasonal and interbreed variation in the thermoregulatory capacity of equine pelage
Z Fuller & C McG Argo

Dairy Cow Intake

- 141 Development of a model to predict dry matter intake of individual dairy cattle on commercial farms
H C F Wicks & J D Leaver
- 142 Effects of varying silage quality for dry cows on feed intake, weight change and performance in the subsequent lactation
R J Dewhurst, D W R Davies & W J Fisher
- 143 The effect of slurry application timing on grass silage fermentation and intake by dairy cattle
R D Allison, S J Lane, K Smith & J A Laws
- 144 Effect of maturity of Napier grass (*Pennisetum purpureum*) hay on intake, digestibility, and rumen dynamics when given to zebu bulls
A J Ayala-Burgos, F D DeB Hovell, R M Godoy, H S Saidén, R López & R R Reyes
- 145 Influence of milk production level of cow and protein content of supplement on the selection of maize and grass silages by dairy cattle give a choice of forages
J S Syed & J D Leaver
- 146 Relationship between plasma ammonia and the urea concentration of milk and plasma in the lactating dairy cow
H J Biggadike, R D Allison, R A Laven, C A Collins, S B Drew & R J Mansbridge

Milk Composition

- 147 The effect of a period of early season part-grazing on the performance of animals managed on two contrasting systems of milk production during the winter
C P Ferris, F J Gordon & D C Patterson
- 148 The effect of feeding forage maize ensiled with sugar beet pulp ('Pulp 'n' Maize') to dairy cows
J F Bell, D J Roberts & K A Leach
- 149 Milk production from dairy cows offered pea-wheat bi-crops containing different ratios of peas to wheat and harvested at two maturity stages
M B Salawu, A T Adesogan & R J Dewhurst
- 150 Effects of silage fermentation on milk protein and fat content and yield
H Khalili, J I Nousiainen, S Jaakkola, T Heikkilä & P Huhtanen
- 151 The effect of feeding whole cracked rapeseed and vitamin E on dairy cow performance and milk fat composition
R J Mansbridge & C A Collins
- 152 Effect of untreated and formaldehyde treated whole linseed on the performance and fatty acid composition of milk produced by Friesland ewes
R G Wilkinson, V E Fry & L A Sinclair

PROGRAMME

THEATRE PRESENTATIONS

DAIRY COW NUTRITION

Validation of models commonly used to predict feed intake of lactating dairy cattle

1 *T W J Keady, C S Mayne & D J Kilpatrick*

Meal patterns of cows offered complete diets with different ratios of concentrate to silage

2 *B J Tolkamp, N C Friggens, G C Emmans, I Kyriazakis & J D Oldham*

The effect of replacing grass silage with pea/wheat bi-crops in dairy cow diets on feed intake, concentrate utilization and milk production

3 *A T Adesogan, M B Salawu & R J Dewhurst*

The effect of feeding rations containing heat treated rapeseed meal, lupins and beans to lactating dairy cows on milk yield and quality

4 *R D Allison, A R Moss & J S Blake*

The effect of fodder beet inclusion on milk production and nitrogen and energy utilization of grass silage based diets by lactating dairy cattle

5 *D G McIlmoyle, D C Patterson & D J Kilpatrick*

Milk production and N Partitioning in early lactation dairy cows offered perennial ryegrass containing a high concentration of water soluble carbohydrates

6 *J M Moorby, L A Miller, R T Evans, N D Scollan, M K Theodorou & J C MacRae*

PIG NUTRITION

The effect of equi-molar dietary betaine and choline addition on performance and carcass quality of pigs

7 *H Siljander-Rasi, K Tiihonen, S Peuranen & P H Simmins*

Methionine supplementation of whey globulin concentrate diets negatively affects weaner performance

8 *R D Slade & H M Miller*

The effects of particle size and liquid feeding on the performance of young pigs offered mash and steam pelleted diets

9 *K A Chesworth, M Choct & P H Brooks*

Performance of pigs post-weaning fed cereal-based diets with an enzyme complex added either before or after pelleting

10 *J Wiseman & P H Simmins*

Effect of protein nutrition on bone strength and incidence of osteochondrosis in gilts

11 *J Slevin, J Wiseman, M Parry & R M Walker*

ANIMAL HEALTH/CATTLE BREEDING

Do rabbits pose a risk of Johne's disease to grazing cattle?

12 *M J Daniels, M R Hutchings, D Henderson, A Greig, K Stevenson & J M Sharp*

Consequences of adding condensed tannins to low and high protein foods for parasitised sheep

13 *S Athanasiadou, I Kyriazakis, F Jackson & R L Coop*

Body protein reserves affect periparturient breakdown of immunity to nematodes in ewes

14 *J G M Houdijk, I Kyriazakis, F Jackson & R L Coop*

Estimates of genetic parameters for test day somatic cell count fitting orthogonal polynomials

15 *R A Mrode, G J T Swanson & C M Lindberg*

HUMAN ANIMAL INTERACTIONS

The effect of genetic selection for lack of aggression towards humans on male reproductive physiology in the silver fox

16 *L V Osadchuk*

The influence of positive human-animal interaction during rearing on the welfare and subsequent production of the dairy heifer

17 *C Bertenshaw & P Rowlinson*

The effect of positive and negative handling on the behaviour and stress response of Holstein Friesian heifers

18 *K Breuer, P H Hemsworth & G J Coleman*

Effect of breed on behaviour of lactating dairy cows in an open-field test

19 *H E Mullan, V E Beattie, C S Mayne & D J Kilpatrick*

PIGS GENERAL

Changes in GIT digesta VFA as a result of fermentable carbohydrates in piglet diets

20 *B A Williams, M W Bosch, R Noteborn & M W A Verstegen*

Changes in digesta NH₃ concentration related to fermentable carbohydrates in piglet diets

21 *B A Williams, M W Bosch & M W A Verstegen*

Energy and protein utilisation equations in lactating gilts

22 *N D Cameron, G B Garth & R Fenty*

The use of hyper-immunised egg as a source of prophylactic antibodies in the neonatal piglet

23 *S Rizvi, D A Harbour, G R Pearson, D Patel, C R Stokes & B G Miller*

The effect of respiratory disease on various acute phase protein levels in the slaughter pig

24 *J R Amory, A M Mackenzie, G P Pearce, P D Eckersall, F Lampreave, M A Alava & M A Varley*

Major gene effect on serum insulin-like growth factor-1 concentration in pigs

25 *N D Cameron, E McCullough, K Troup, J C Penman & R Pong-Wong*

RUMINANT NUTRITION

A non-invasive approach to determining extent of degradation in the rumen

26 *L A Crompton, J France, E Kebreab, J A N Mills, M S Dhanoa, S López & J Dijkstra*

Comparison of methods for prediction of rumen fermentation patterns from diet composition

27 *V E Brown, R E Agnew & D J Kilpatrick*

The influence of the pattern of peptide supply on microbial activity in the rumen simulating fermentor Rusitec

28 *J P Russi, R J Wallace & C J Newbold*

Microbial activity in grass-fed *in vitro* continuous cultures in response to infusion of graded levels of soluble sugars

29 *M R F Lee, D K Leemans, D R Davies, R J Merry, J M Moorby, M O Humphreys, M K Theodorou, J C MacRae & N D Scollan*

The influence of the temporal pattern of post-ruminal energy and protein supply on nitrogen metabolism in growing lambs

30 *W G Randles, M A Lomax & J C MacRae*

Effect of supplementation and stage of growth on the partitioning of nutrients by Hereford x Friesian steers fed on grass silage based diets

31 *N D Scollan, A Cooper, M S Dhanoa, M Wright, J M Dawson & P J Buttery*

FEED INTAKE PIGS

Effects of pre-weaning food presentation on response to solid feed in piglets post-weaning

32 *G White & J J Cooper*

Testing two theories of food intake using growing pigs: the effect of a period of feeding on a high bulk food on the subsequent intake of foods of different bulk content

33 *E C Whittemore, I Kyriazakis, G C Emmans, B J Tolcamp, P W Knap, P H Simmins & S Jagger*

Creep feed consumption and individual feed intake characteristics of group housed weanling pigs

34 *E M A M Bruininx, C M van der Peet-Schewring & J W G M Swinkels*

BRAUDE SCHOLARSHIP 2000: The effect of voluntary food intake on the postweaning growth of the pig

35 *H L Edge*

CATTLE BREEDING

Genetic evaluations and parameter estimates for dairy cow fertility in the United Kingdom

36 *H N Kadarmideen, M P Coffey, M A Kossaibati & R J Esslemont*

Selection indexes using calving interval, condition score and milk yield in dairy cattle

37 *J E Pryce, M P Coffey, S H Brotherstone & J A Woolliams*

A comparison of the Holstein Friesian and Norwegian cattle breeds for milk production at two levels of nutrient intake

38 *T W J Keady, A D Crawford & C S Mayne*

Genetic evaluation of dairy bulls for energy balance traits using random regression

39 *M P Coffey, G C Emmans & S Brotherstone*

SHEEP GENETICS

Multi-trait selection indexes for sustainable improvement of UK hill sheep

40 *J Conington, S C Bishop, B Grundy, A Waterhouse & G Simm*

Confirmation of the presence of a major gene for fecundity in Thoka Cheviot sheep by segregation analyses

41 *G A Walling, S C Bishop, R Pong-Wong, G Gittus, A J F Russel & S M Rhind*

Relationships between muscularity indices and carcass traits in Suffolk, Charollais and Texel lambs

42 *H E Jones, R M Lewis, M J Young, B T Wolf & C C Warkup*

The inheritance of traits describing early lamb performance in Scottish Blackface sheep

43 *S C Bishop & K Mackenzie*

Gene frequency estimation from a biased sample of individuals

44 *B Grundy & R M Lewis*

Analysis of PrP genotype in relation to performance traits in Suffolk sheep

45 *J A Roden, W Haresign & J M L Anderson*

PIG BEHAVIOUR AND WELFARE

The effect of stocking density, group size and boar presence on the behaviour, aggression and skin damage of sows mixed in a specialised mixing pen at weaning

46 *C M Docking, R M Kay, J E L Day & H L Chamberlain*

The effects of gestation on behaviour, heart rate and heart rate variability of gilts

47 *R M Forde & J N Marchant*

Influence of group size on the performance and behaviour of 4 to 10 week old pigs

48 *N E O'Connell, V E Beattie & R N Weatherup*

The effects of prior experience of straw and depth of straw bedding on the behaviour of growing pigs

49 *J E L Day, A Burfoot, C M Docking, X Whittaker, H A M Spoolder & S A Edwards*

Validation and development of a behavioural test to predict the predisposition of growing pigs to perform harmful social behaviour such as tail biting

50 *K B Breuer, V E Beattie, L M Dunne, E C Slade, Z Davies, J T Mercer, K A Rance, I A Sneddon, M E M Sutcliffe & S A Edwards*

EWE NUTRITION

Body tissue changes in Scottish Blackface ewes during one annual production cycle

51 *N R Lambe, M J Young, J Conington, R M Lewis, G Simm & S C Bishop*

Annual depletion and repletion of carcass fat depots in Scottish Blackface ewes

52 *T Kvame, M J Young, K Kolstad, N R Lambe, J Conington & G Simm*

The effect of midwinter shearing on rumen digesta kinetics in highly prolific crossbred ewes

53 *L B J Šebek & H Everts*

Effects of protein source, formaldehyde treatment and rumen-protected methionine on the metabolism and performance of pregnant and lactating ewes fed straw

54 *D Handford, S E Pattinson, R G Wilkinson & L A Sinclair*

MEAT QUALITY

Effect of grass or concentrates on muscle fatty acids and flavour in 2 sheep breeds

55 *J S Hewerdine, D A Jones, F M Whittington, M Enser, G R Nute & J D Wood*

Vitamin E supplementation and meat quality of lambs

56 *E Kasapidou, J D Wood, L A Sinclair, R G Wilkinson & M Enser*

Effects of diet and time on feed on phospholipid fatty acid composition and beef meat flavour

57 *M M Campo, M Enser, A Gondou, J S Elmore, D S Mottram, G R Nute, N D Scollan & J D Wood*

Effects of breed, sex, degree of maturity and nutritional management on eating quality of lamb meat

58 *D Zygoyiannis, P Fortomaris, N Katsaounis, C Stamatari, G Arsenos & L Tsaras*

DIET SELECTION/FEEDING BEHAVIOUR

On the diet selection of sheep: effects of adding urea to foods with different protein contents

59 *S M James, I Kyriazakis & G C Emmans*

On the diet selection of sheep: sodium bicarbonate modifies the effect of urea on diet selection

60 *S M James, I Kyriazakis, G C Emmans & B Tolcamp*

The interactive effects of novel food flavours and food composition on the diet selection of sheep

61 *G Arsenos & I Kyriazakis*

The ability of the horse to associate orosensory characteristics of foods to their post-ingestive consequences in a choice test

62 *M C Cairns, J J Cooper, H P B Davidson & D S Mills*

Effect of resource density on the use of spatial memory by foraging sheep

63 *S J Rodway-Dyer, J E Cook & A J Rook*

POSTER PRESENTATIONS

ENDOCRINE DISRUPTING COMPOUNDS AND THEIR IMPLICATIONS FOR DOMESTIC ANIMAL AND HUMAN HEALTH

Octylphenol, an environmental estrogen, affects oocyte maturation in cattle

64 *P Pocar, R Augustin, F Gandolfi & B Fischer*

Ah receptor expression and signal transduction in bovine and rabbit reproductive tissues and embryos

65 *B Fischer, A Hasan, S Kietz & P Pocar*

A wax diet for administration of octylphenol to laboratory rodents as a tool for the investigation of

66 oestrogenic activity

S R Milligan, G D Sales & V J Pocock

Bioaccumulation of the endocrine disrupting compound, dioctyl phthalate, in sheep grazing pasture treated with sewage sludge or inorganic fertiliser

67 *S M Rhind, C E Kyle, G Telfer, G Martin & A Smith*

LowTetrachlorodibenzo-p-dioxin (TCDD) concentrations affect gene expression patterns before any cytotoxicity appears at the cellular level

68 *I Hue, S Degrelle, E Laloy, J-L Servely, E Petit, B Brouwer & J-P Renard*

PRODUCT QUALITY

Changes in carcass composition with age in 16-26 month old Red Deer

69 *A V Fisher, M H Davies, D W Deakin & J A Bayntun*

Productive and carcass classification traits on chemical and instrumental meat quality characteristics of ten local cattle breeds of the Southwest of Europe

70 *C Sañudo, J L Olleta, G Renand, M M Campo, B Panea, M Oliván, D García, M A Oliver, M Espejo & J Piedrafita*

Time course of incorporation of n-3 PUFA from linseed in pigs and effects on $\Delta 9$ -desaturase activity and pork odours

71 *M Kouba, M Enser, G R Nute, F M Whittington, J D Wood & A D Hall*

Effect of substitution of a carbohydrate source by highly polyunsaturated or partially saturated oil on the fatty acid composition of backfat tissues, marbling fat and vitamin E content of meat in growing-fattening pigs

72 *A Ocampo, P F Dodds & I J Lean*

Evidence for calpastatin cleavage by calpain in postmortem porcine longissimus dorsi

73 *P L Sensky, T Parr, R G Bardsley, P J Buttery & C Warkup*

The role of P450IIE1 protein and mRNA expression in determining adipose tissue skatole level

74 *E Doran, F Whittington, J D Wood & J D McGivan*

Effect of red and white clover on beef meat quality

75 *M Enser, R I Richardson, G R Nute, A V Fisher, N D Scollan & J D Wood*

Investigating the accuracy and usefulness of ultrasonic scanning and muscle scoring in predicting carcass conformation, fat and composition in cattle

76 *S Doorley, M J Drennan, P J Caffrey, D Pullar & J Stark*

Effect of breed and nutritional management on fatty acid composition of lambs of dairy Greek breeds of sheep

77 *G Arsenos, D Zygoyiannis, D Kufidis, N Katsaounis & C Stamataris*

Plasma and meat hormones and metabolites of lambs grazing high-formononetin red clover

78 *J M Moorby, M D Fraser, V J Theobald, R Jones, N F G Beck, W Haresign & J D Wood*

Postmortem proteolysis in pork does not depend on fibre type distribution

79 *M Christensen, P Henckel & P P Purslow*

Conjugated linoleic acid in cows milk: independent effects of dietary linoleic and linolenic fatty acids

80 *A L Lock & P C Garnsworthy*

Altering carcass composition during a winter store period does not affect the final carcass composition following zero-grazing at the end of an 18-month finishing system

81 *N S Prathalingam, L Heasman, J R Scaife, J Struthers, J Parker, D G Chapple & M A Lomax*

Effect of a high-fat diet based on palm, soybean or maize oil on growth performance and carcass characteristics in growing-fattening pigs

82 *A Ocampo & I J Lean*

Implications of changing the housing conditions of pigs prior to slaughter for the eating quality of bacon

83 *S J Maw, V R Fowler, M Hamilton & A M Petchey*

The effects of straw-only feeding prior to transport and journey time on faecal pathogen excretion and hide contamination of finished cattle

84 *L Heasman, S D Webster, M L Hutchison & M H Davies*

The effect of the lambing distribution on the evolution of bulk tank milk composition in the Latxa dairy sheep of the Basque Country (Spain)

85 *R Ruiz & L M Oregui*

FORAGES AND THEIR UTILISATION

Increased intake responses from beef steers zero-grazed on *Lolium perenne* selected for high levels of water soluble carbohydrate

86 *M R F Lee, R T Evans, J M Moorby, M O Humphreys, M K Theodorou, J C MacRae & N D Scollan*

The effect of forage type and host animal diet on the *in situ* rumen degradation of grass silage and pea/wheat bi-crops containing different pea varieties

87 *M B Salawu, A T Adesgoan & R J Dewhurst*

Influence of wilting time on silage compositional quality and microbiology of grass clover mixtures

88 *I A Bouriako, H Shihab, V Kuri & J K Margerison*

Influence of maturity stage on *in situ* dry matter degradability of six maize varieties in fistulated sheep

89 *M A Akbar, P Lebzien & G Flachowsky*

Voluntary intake and apparent digestibility in ponies offered alfalfa based forages *ad libitum*

90 *J J Hyslop & S Calder*

The effect of freezing and thawing fresh grass silage on near infrared reflectance spectroscopy (NIRS) predictions

91 *R S Park, R E Agnew & D J Kilpatrick*

The prediction of digestible and metabolisable energy concentrations in grass-based diets of producing cattle using data tested with sheep trials at maintenance feeding level

92 *T Yan, R E Agnew & F J Gordon*

Prediction of silage dry matter digestibility from digestible organic matter digestibility

93 *T W J Keady, C S Mayne & D J Kilpatrick*

ANIMAL HEALTH

Sheep avoidance of faeces creates a foraging trade-off between nutrient and parasite intake

94 *M R Hutchings, I J Gordon, I Kyriazakis & F Jackson*

A decision support system for controlling bovine viral diarrhoea (BVD) in beef suckler herds

95 *A W Stott, G M Jones, R Humphry & G J Gunn*

Sample test-day heritability estimates for somatic cell score for Hungarian Holstein-Friesian crossbreds

96 *A A Amin & G Tibor*

Variation among six genetic groups in relationship between sample test-day daily milk and somatic cell scores of Hungarian Holstein-Friesian

97 *A A Amin*

Total Enterobacteriaceae counts as an indicator of animal feedingstuffs hygiene

98 *A D Wood, K Howard, A L Mills & P E V Williams*

Total Enterobacteriaceae counts as an indicator of the internal hygiene of feed mills

99 *A D Wood, K Howard, A L Mills & P E V Williams*

The influence of oxygen on the efficacy of porcine lactobacillus probiotic cultures

100 *J Periz & K Hillman*

Distribution of potentially probiotic *Lactobacillus* spp. in pig farms

101 *K Hillman & S M Robertson*

TROPICAL FEEDS & FEEDING SYSTEMS

Environmentally and economically sustainable systems of sheep and goat meat production

102 *C Stamataris, G Arsenos, D Zygoiannis, N Katsaounis & J Abrosiadis*

Intake of lactating and dry dual-purpose cows grazing two species of *Brachiaria* pastures in Santa Cruz Bolivia

103 *N Joaquin & M Herrero*

The nutritive value of native forage plants of Armenia

104 *B Kh Mezhunts, E R Deaville & D I Givens*

Inclusion of varying levels of urad (*Vigna mungo*) chuni in concentrate mixtures on nutrient utilization in native male buffaloes

105 *D S Rao, K S Reddy, Z Prabhakara Rao & J Rama Prasad*

Voluntary intake of five forage trees in a cafeteria trial

106 *H L Lizarraga Sánchez, F J Solorio Sánchez & C A Sandoval Castro*

Voluntary intake of grass and a forage tree when offered simultaneously

107 *H L Lizarraga Sánchez, F J Solorio Sánchez & C A Sandoval Castro*

Rumen environment modifications in sheep fed with brewers' grain silage in Brazil

108 *S L S Cabral Filho, I C S Bueno & A L Abdalla*

Evaluation of the Indonesian coffee pulp as a ruminant feed using the Reading Pressure Technique

109 *S Fakhri, A Latief, R Murni, S D Widyawati, M Afidal & F L Mould*

Effect of tropical diets on inocula used on *in vitro* gas production technique

110 *I C S Bueno, S L S Cabral Filho, S P Gobbo, M C Carvalho, C Pavan & A L Abdalla*

RUMINANT & PRE-RUMINANT NUTRITION

Urea preserved grain for finishing lambs

111 *J E Vipond, M Lewis and D J Allcroft*

Evaluation of pressed sugar beet pulp ensiled with dried maize distillers grains as a feed for finishing lambs

112 *S E Pattinson, C A Williams & M W Witt*

Comparison of pressed sugar beet pulp ensiled with dried maize distillers grains against a ration based on barley and soya bean meal for fast finishing suckled beef bulls

113 *S P Marsh, S L Edmond & M Witt*

Effect of protein level in cereal based rations for continental cross Holstein bulls and heifers

114 *S P Marsh & E Walters*

Level of supplementary concentrates for Holstein-Friesian young bulls fed silage

115 *M G Keane & R J Fallon*

Effect of extending the grazing season in beef production systems

116 *B J O'Neill, M J Drennan & P J Caffrey*

The effects of breed and different levels of dietary protein on store lamb finishing performance

117 *C M Minter, C A Middlemass, S P Higham & M Marsden*

Simple mixes of molassed sugar beet feed, field beans and distillers grains for pregnant March-lambing ewes
118 *D G Chapple, K P A Wheeler, G Perrott & M Witt*

The performance of twin-bearing ewes and their progeny when offered red clover, lucerne and grass silages during late pregnancy
119 *M H M Speijers, M D Fraser, V J Theobald, R Fychan & W Haresign*

Time course of changes in the fatty acid composition of plasma in the milk fed pre-ruminant calf supplemented with a palm/rapeseed oil mixture or fish oil
120 *R O'Brian, N Muturi, M Birnie, M Wallace, J Struthers & J R Scaife*

Influence of dietary fatty acids on the fatty acid composition of intestinal mucosa in the milk fed pre-ruminant calf
121 *R O'Brian, N. Muturi, M Birnie, M Wallace, J Struthers & J R Scaife*

Application of mechanistic model of methanogenesis in the lactating dairy cow. The fate of hydrogen during fermentation and strategies to mitigate methane emissions
122 *J A N Mills, J Dijkstra, A Bannink, E Kebreab, S B Cammell, L A Crompton & J France*

IN VITRO

The chemical composition and digestibility of wheat straw treated with urea and white rot fungi
123 *Y Rouzbehan, H Fazaeli & A Kiani*

The *in vitro* digestion of mature grass hay in the presence of absence of added nitrogen and sugar beet pulp by an equine faecal inoculum using the pressure transducer technique
124 *M J S Moore-Colyer & A C Longland*

Fibrolitic enzymes increase the hydrolysis and rate of fermentation of pure substrates *in vitro*
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GRAN ENCICLOPEDIA
DE LAS
PLANTAS
MEDICINALES

El Dioscórides del tercer milenio

DR. JOSEP LLUÍS BERDONCES I SERRA



TIKAL
ediciones



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Food Safety and International Competitiveness: the Case of Beef

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Quantitative Models in Marketing Research

Philip Hans Franses
and
Richard Paap



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COLLECTION
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Gestion des problèmes environnementaux dans les industries agroalimentaires

René Moletta

coordonnateur



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The Economic Value of Water Quality

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NEW HORIZONS IN ENVIRONMENTAL ECONOMICS

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Cheltenham, UK • Northampton, MA, USA





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RESTRUCTURING AND TRANSITION OF AGRIFOOD SECTOR AND RURAL AREAS IN ROMANIA



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La agricultura española: Crecimiento y productividad

ERNEST REIG
ANDRÉS J. PICAZO





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JAVIER CASARES (Comp.), JULIÁN BRIZ,
ALFONSO REBOLLO y PABLO MUÑOZ GALLEGO

LA ECONOMÍA DE LA DISTRIBUCIÓN COMERCIAL

Prólogo de
LUIS GÁMIR



EDITORIAL ARIEL, S. A.
BARCELONA



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*Fondo
Documental Histórico
de las
Cortes de Aragón*

2000-2002



CORTES DE ARAGON



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Reuniones del

G ***Grupo de Trabajo de
Experimentación en
Viticultura y Enología***

REUNIÓN
ANUAL
2001.



Murcia, abril de 2001.



MINISTERIO
DE AGRICULTURA, PESCA
Y ALIMENTACION

PROGRAMA DEFINITIVO DE LA REUNIÓN.



Día 23 de abril.

Llegada a Murcia y alojamiento.

Día 24 de abril.

8:30h Salida del hotel en autobús hacia La Alberca.

8:45h Inauguración de la Reunión por D.ANGEL GARCIA LIDON, Dtor. Gral. de Investigación y Transferencia Tecnológica.

9:15h Inicio de la sesión de trabajo.

SECCIÓN VITICULTURA.

Materia: Integración del manejo de las prácticas culturales en la producción de uvas de calidad y su incidencia en el color y los aromas del vino.

Maduración de la vid (general y fenólica)

HABA EJARQUE, M.

Proposición de ficha de cata para uvas.

HABA EJARQUE, M.

Relación entre la cata y los análisis físico – químicos en la maduración de las uvas.

HABA EJARQUE, M.

10:00h Comportamiento polifenólico de las variedades cultivadas en la D.O. Jumilla. Resultados del año 2000.

ROMERO CASCALES I., MARTINEZ CUTILLAS A. Y FERNANDEZ FERNANDEZ J.I.

10:20h Comportamiento agronómico de la variedad Verdejo (*Vitis Vinifera* L.), sometida a poda mixta, en función del sistema de conducción: vaso típico y espaldera de brazos cortos.

LÓPEZ-MIRANDA, S., YUSTE, J.; RUBIO, J.A.; ALBURQUERQUE, M^a.V.; LISSARRAGUE, J.R.



- 10:40h Efectos de carácter agronómico causados por el aumento del nivel de carga de poda en la variedad Verdejo (*Vitis Vinifera* L.), Sometida a distintos tipos de poda en espaldera (royat, guyot y yuste)
ALBURQUERQUE, M^a.V., LÓPEZ-MIRANDA, S.; YUSTE, J.; LISSARRAGUE, J.R.
- 11:00h Pausa café.
- 11:30h Contribución al conocimiento de la madurez fenólica en las variedades Cencibel y Cabernet sauvignon en la Mancha Central.
MARTÍNEZ GASCUEÑA, J.; GONZÁLEZ MARTÍNEZ, A.; GARCÍA ROMERO, E.; CHACÓN VOZMEDIANO, J.L
- 11:50h El riego en la variedad Monastrell.
DE LA HERA ORTS, M.L.; MARTÍNEZ CUTILLAS, A.; FERNÁNDEZ J.I.; GÓMEZ PLAZA, E.; LÓPEZ ROCA, J.M.; PÉREZ PRIETO, L.J.
- 12:10h Contribución al establecimiento de una estrategia racional de fertilización.
GARCÍA-ESCUADERO, E.; ZABALLA, O.; GONZÁLEZ, G.; VILLAR, MT., ARROYO, MC.
- 12:30h Ensayo de comparación de poda y prepoda de la vid.
RAMÓN NÚÑEZ DIÁCONO, R.; FRANCO ALADRÉN, E.;
- 12:50h Producción del viñedo y calidad del vino en diferentes cultivares de Aragón.
FRANCO ALADRÉN, E.
- 13:10h Comunicaciones.
Influencias de distintas metodologías de elaboración en vinos blancos obtenidos con uvas de la variedad Verdejo.
• MANUEL M. LOSADA ARIAS, ANTONIO PALACIOS GARCÍA, VICENTE GARCÍA-NOBLEJAS DÁVILA.
- 14:00h Salida para la D.O. Bullas
- 14:45h Comida en Bullas ofrecida por el Excmo Ayuntamiento.
- 17:00h Visita a los viñedos del paraje del Aceniche y Bodega Balcona.
- 19:00h Regreso a Murcia.



Día 25 de Abril.

- 8:30h Salida del hotel en autobús hacia La Alberca
- 9:15h Inicio de la sesión de trabajo.
SECCIÓN: ENOLOGÍA.
Materia: Polifenoles en vino.
Avance técnico aplicado al tratamiento de las uvas para la extracción del color y posterior medición automatizada. Resultados vendimia 2000.
IÑIGUEZ CRESPO, M.
- 9:40h Aplicación del infrarrojo medio al análisis de maduración en la zona de Jumilla
FERNÁNDEZ, J.I.; ROMERO, I.; MARTÍNEZ, A. ; PUENTE, J.; FERNÁNDEZ, J.
- 10:00h Aplicación de taninos enológicos durante la maceración. Influencia en la extracción y estabilidad polifenólica de los vinos tintos.
MARTINEZ GARCIA, J.; LOPEZ MARTIN, R.; SANTAMARIA AQUILUE, P.; BARUA GONZALEZ, M.; GUTIERREZ VIGUERA, A.R.
- 10:20h Aplicación de taninos enológicos a la elaboración de vinos tintos SUBERVIOLA RIPA J.
- 10:35h Caracterización de variedades tintas según análisis de las antocianinas.
F. CAPDEVILLA, M. VILAVELLA, J. GARCÍA, S. MÍNGUEZ, E. REVILLA.
- 10.50h Estudio de la extracción de antocianinas durante la elaboración de vinos tintos por HPLC.
GARCÍA-BENEYTEZ, E.; REVILLA, E.; CABELLO, F.
- 11:00h Implantación de Levaduras Seleccionadas de la D.O. Ribera del Guadiana en Fermentaciones Controladas de Mostos.
ALVAREZ, M.L.; ZAMORA, E.; ALVAREZ, M.; CORILLA,P.; RAMIREZ, M
- 11:20h Pausa café
- 11:50h Análisis sensorial de vinos de crianza de Monastrell.
PEREZ PRIETO L.J
- 12:15h Nariz electrónica
GOMEZ PLAZA E.

- 12:35h Caracterización polifenólica durante la vinificación de las uvas tintas Cabernet Sauvignon, Merlot y Tempranillo.
F. CAPDEVILLA, M. VILAVELLA, S. MÍNGUEZ.
- 12:45h Comunicaciones.
Técnicas de control del riego
RAFAEL ALVAREZ.
- 13:15h Efectos del aclareo de racimos. Avance de resultados.
FAUSTINO AGUIRREZABAL
- 13:25h Informe sobre las reunión del grupo de expertos en Tecnología del vino de la O.I.V. (marzo 2001).
JOSÉ SERRANO CUADRILLO.
- 13:45h Conclusiones.
- 14:00h Salida en autobús hacia Jumilla
- 15:30h Comida en Bodegas Casa la Ermita (Jumilla).
- 17:00h Visita a bodega y viñedos de Casa la Ermita.
- 19:00h Visita a la estación Enológica de Jumilla
- 19:30h Regreso a Murcia y fin de la reunión.



SISTEMAS DE CULTIVO EN OLIVAR

Manejo de Malas Hierbas y Herbicidas

**M^a Milagros Saavedra Saavedra
Miguel Pastor Muñoz-Cobo**



Editorial Agrícola Española, S.A.



SISTEMAS DE CULTIVO EN OLIVAR

Manejo de malas hierbas y herbicidas.

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Ramón Aparicio

John Harwood

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Obra colectiva dirigida
y coordinada por

Carlos CADAHIA

FERTIRRIGACION

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PROGRAMA



Viernes 31 de mayo

- 9:00 h. **Bienvenida y entrega de documentación.**
- 9:30 h. **Inauguración oficial**, en el Salón de Actos del Palacio Montcada, a cargo de las autoridades locales.
Presentación: *D. Álvaro Enrech*, Director de Merco Fraga.
- 10:00 h. **Producción integrada en fruticultura en Aragón. El nuevo marco legislativo de Producción Integrada.**
Ponente: *D. Pedro Pérez Marco*, Jefe del Servicio de Formación y Extensión agraria. Dirección General de Tecnología Agraria de la DGA.
- 10:45 h. **Situación actual de la Producción Integrada en Catalunya.**
Ponente: *D. Francesc Miret i Benet*, Dr. Ingeniero Agrónomo, Coordinador de Producción Integrada de la Dirección General de Producción Agraria e Innovación Rural del D.A.R.P. de la Generalitat de Catalunya.
- 11:30 h. **Café de trabajo.**
- 12:00 h. **Producción y Comercialización de Producción Integrada Frutícola en Aragón.**
- 12:00 h. **Producción.**
Ponente: *D. Francisco Javier Lozano Soria*, Técnico del ATRIA de Fruticultores La Almunia - Alfamén (Zaragoza)
- 12:30 h. **Comercialización.**
Ponente: *D. Pere Ramoneda Salas*, Gerente de la Cooperativa CÓSANSE (La Almunia de Doña Godina (Zaragoza)
- 13:00 h. **Mesa Redonda**
Moderador: *D. Carlos Lafarga Sanclemente*, Técnico de la Cooperativa SAIDIFRUIT (Zaidín)

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Nº 11464
Nº M. 220



Memoria de Actuaciones del Sindicato



MARZO-DICIEMBRE 2002

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JORNADA INFORMATIVA
SOBRE
CULTIVOS ENERGÉTICOS,
AGROINDUSTRIA
Y SEGURIDAD ALIMENTARIA

COMUNIDAD GENERAL DE
RIEGOS DEL ALTO ARAGÓN

Huesca, 4 de octubre de 2001

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uso y
gestión
del agua
en aragón





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ACCIÓN ESTRUCTURAL

(MODERNIZACIÓN DE LOS VIEJOS
REGADÍOS)

TERCERAS JORNADAS AGRARIAS
(LALUEZA, 15 NOVIEMBRE-12 DICIEMBRE 1997)



ÁREA DE DESARROLLO



EXCMO. AYUNTAMIENTO DE LALUEZA





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Los sistemas de información en las organizaciones: eficacia y transparencia



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**Nuevo sistema de alimentación
a libre disposición para ganado
ovino: COME-RUM®**



INSTITUCIÓN «FERNANDO EL CATÓLICO» (C.S.I.C.)
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