

1. Record Nr.	UNINA9910627298303321
Titolo	Sustainable animal agriculture // edited by Ermias Kebreab
Pubbl/distr/stampa	Boston, Massachusetts : , : CABI, , [2013] ©2013
ISBN	1-78924-453-6 1-78064-372-1
Descrizione fisica	1 online resource (335 p.)
Disciplina	631.5 636.00286
Soggetti	Animal culture Sustainable agriculture
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Sustainability: a wicked problem / H.C. Peterson -- Production efficiency of ruminants: feed, nitrogen and methane / J. Dijkstra ... [et al.] -- Production efficiency of monogastric animals / H.D. Poulsen ... [et al.] -- Animal welfare: an integral component of sustainability / B. Tucker, J. A. Mench, M.A.G. Von Keyserlingk -- Genetics and sustainable animal agriculture / A. Van Eenennaam -- Minimizing environmental impacts of livestock production using diet optimization models / E. Moraes and J.G. Fadel -- Sustainable manure management / A.B. Leytem, R.S. Dungan and P.J.A. Kleinman -- Water-related issues in sustainability: nitrogen and phosphorus management / K. Knowlton and P. Ray -- Air quality issues in sustainability: greenhouse gases and volatile organic compounds / S.E. Place and F.M. Mitloehner -- Integration of air and water quality issues / A. Rotz and T.L. Veith -- The environmental sustainability of food production / J.L. Capper -- Economic sustainability in animal agriculture / S.C. Blank -- Achieving social sustainability in animal agriculture: challenges and opportunities to reconcile multiple sustainability goals / M.T. Niles -- Life-cycle assessment in ruminant production / K.A. Beauchemin and E.J. McGeough -- Quantitative measurements of ammonia and methane loss from livestock / S.M. McGinn -- Manipulation of microbial ecology

for sustainable animal production /A-D.G. Wright -- Emerging contaminants in livestock manure: hormones, antibiotics, and antibiotic resistance genes / P.P. Ray, Z. Zhao and K.F. Knowlton -- Animal agriculture: how can it be sustainable in the future? / David K. Beede.

Sommario/riassunto

In order to meet increasing global demand for meat and animal by-products increasingly intensive animal production is necessary. Creating a sustainable system in animal agriculture that works in different production environments is a major challenge for animal scientists. This book draws together themes on sustainability that have emerged as the most pressing in recent years. Addressing practical topics such as air quality, manure management, animal feeds, production efficiency, environmental sustainability, biotechnology issues, animal welfare concerns, societal impacts and an analysis of the
