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Prepared for Members and
Committees of Congress

Air Quality Issues And Animal Agriculture A Primer Crs Reports

**Vincenzo Belgiorno, Vincenzo
Naddeo, Tiziano Zarra**



Air Quality Issues And Animal Agriculture A Primer Crs Reports:

Air Quality Issues and Animal Agriculture Congressional Research Service, 2014-12-22 From an environmental quality standpoint much of the public and policy interest in animal agriculture has focused on impacts on water resources because animal waste if not properly managed can harm water quality through surface runoff direct discharges spills and leaching into soil and groundwater A more recent issue is the contribution of air emissions from animal feeding operations AFOs enterprises where animals are raised in confinement This report provides background on the latter issue AFOs can affect air quality through emissions of gases such as ammonia and hydrogen sulfide particulate matter volatile organic compounds hazardous air pollutants and odor These pollutants and compounds have a number of environmental and human health effects Agricultural operations have been treated differently from other businesses under numerous federal and state laws Some environmental laws specifically exempt agriculture from regulatory provisions and some are designed so that farms are not subject to most if not all of the regulatory impact The primary regulatory focus on environmental impacts has occurred under the Clean Water Act In addition AFOs that emit large quantities of air pollutants may be subject to Clean Air Act regulation Some livestock operations also may be regulated under the release reporting requirements of the Comprehensive Environmental Response Compensation and Liability Act CERCLA and the Emergency Planning and Community Right to Know Act EPCRA Questions about the applicability of these laws to livestock and poultry operations have been controversial and have drawn congressional attention Agriculture's role as both a source of and a sink for greenhouse gases also has been of interest in connection with addressing the global challenge of climate change Enforcement of environmental laws requires accurate measurement of emissions to determine whether regulated pollutants are emitted in quantities that exceed specified thresholds Two reports by the National Research Council evaluated the state of the science and approaches for estimating AFO air emissions to guide future management and regulatory efforts In an effort to collect scientifically credible data on air emissions in 2005 the Environmental Protection Agency EPA announced a plan negotiated with segments of the animal agriculture industry Called the Air Compliance Agreement it was intended to produce air quality monitoring data on AFO emissions while at the same time protect participants through a safe harbor from liability under certain provisions of federal environmental laws Issues related to this agreement which was controversial among environmental advocates state and local air quality officials and some industry groups are discussed separately in CRS Report RL32947 Air Quality Issues and Animal Agriculture EPA's Air Compliance Agreement

Animal Agriculture Research Progress Karl B. Tolenhoff, 2008-02 Dealing with the eradication of diseases that pose a risk to the health of animals wildlife and humans this text includes details on developing a safe and wholesome food supply and the best practices in environmental stewardship animal health and well being

The SAGE Encyclopedia of Food Issues Ken Albala, 2015-03-27 The SAGE Encyclopedia of Food Issues explores the topic of food across multiple disciplines within the

social sciences and related areas including business consumerism marketing and environmentalism In contrast to the existing reference works on the topic of food that tend to fall into the categories of cultural perspectives this carefully balanced academic encyclopedia focuses on social and policy aspects of food production safety regulation labeling marketing distribution and consumption A sampling of general topic areas covered includes Agriculture Labor Food Processing Marketing and Advertising Trade and Distribution Retail and Shopping Consumption Food Ideologies Food in Popular Media Food Safety Environment Health Government Policy and Hunger and Poverty This encyclopedia introduces students to the fascinating and at times contentious and ever so vital field involving food issues Key Features Contains approximately 500 signed entries concluding with cross references and suggestions for further readings Organized A to Z with a thematic Reader's Guide in the front matter grouping related entries by general topic area Provides a Resource Guide and a detailed and comprehensive Index along with robust search and browse functionality in the electronic edition This three volume reference work will serve as a general non technical resource for students and researchers who seek to better understand the topic of food and the issues surrounding it

Cap and Trade: The Kyoto Protocol, Greenhouse Gas (GHG) Emissions, Carbon Tax, Emission Allowances, Acid Rain SO2 Program, Ozone Transport Commission, NOX, Carbon Markets, and Climate Change Jonathan L. Ramseur, Larry Parker, Climate Change Renee Johnson, 2009-12 The agriculture ag sector is a source of greenhouse gas GHG emissions which many scientists agree are contributing to observed climate change Ag is also a sink for sequestering carbon which might offset GHG emissions by capturing and storing carbon in ag soils The two key types of GHG emissions associated with agricultural activities are methane and nitrous oxide Contents of this report 1 Ag Sinks and Emissions Source of Nat Est Ag Emissions Ag Carbon Sinks Potential for Additional Uptake 2 Mitigation Strategies in the Ag Sector Federal Programs State Programs 3 Congressional Action Climate Change Proposals 2008 Farm Bill Provisions Related Initiatives Involving U S Ag Considerations for Congress Illus

Barnyards and Birkenstocks Don Stuart, 2021-09-24 Rural America is struggling The average farmer is now 57 years old Family agriculture is gradually fading and prime farmland is often converted into environmentally harmful applications But food cultivation has ecological consequences too Farms consume 80 percent of the nation's water Although they often prevent sprawling development improve water quality or provide wildlife habitat they also pollute rivers drain wetlands or emit destructive greenhouse gasses Don Stuart believes two dangerous trends the loss of farms and damage to ecosystems are connected and that a major cause is the political deadlock between farmers and environmental activists He offers a radical proposal collaboration To promote empathy and point out the costs of continued political impasse he presents opposing perspectives Topics include incentives regulations government spending environmental markets growth management climate change public lands grazing and the federal farm bill Drawing from multiple case studies and a lifetime spent settling conflicts the author identifies characteristics of successful community programs to suggest a model for a prosperous healthy future

Treatment of Industrial Effluents Mihir Kumar Purkait, Piyal Mondal, Chang-Tang Chang, 2019-09-06 To address the issue of discharge of untreated industrial effluent in the water body causing pollution adoption of cleaner production technologies and waste minimization initiatives are being encouraged The book explains each related technology elaborately and critically analyses the same from practical application point of view In depth characterization environmental and health effects and treatment of various industrial effluents are discussed with case studies Limitations challenges and remedial actions to be taken are included at the end of each chapter Chapters are arranged as per specific type of effluents from various industries like textile tannery leather plant and oil refinery *The Elgar Companion to Consumer Behaviour and the Sustainable Development Goals* Lucia Reisch, Cass Sunstein, 2025-05-14 In light of the re evaluation of the UN Sustainable Development Goals SDGs this timely Companion adopts an interdisciplinary approach to provide key insights on important topics including sustainable food consumption and the mitigation of food waste *Odour Impact Assessment Handbook* Vincenzo Belgiorno, Vincenzo Naddeo, Tiziano Zarra, 2013-01-29 Odours have become a priority concern for facility operators engineers and urban planners who deal with waste and industrial treatment plants The subjectivity of smell perception its variability due to frequency and weather conditions and the complex nature of the substances involved has long hampered the regulation of odour emissions This book provides a comprehensive framework for the assessment measurement and monitoring of odour emissions and covers Odour characterization and exposure effects Instruments and methods for sampling and measurement Strategies for odour control Dispersion modelling for odour exposure assessment Odour regulations and policies Procedures for odour impact assessment Case studies Wastewater treatment composting industrial and CAFO plants and landfill Intended for researchers in environmental chemistry environmental engineering and civil engineering this book is also an invaluable guide for industry professionals working in wastewater treatment environmental and air analysis and waste management *Air Quality Issues and Animal Agriculture* ,2007 **Air Quality Issues and Animal Agriculture** ,2007 From an environmental quality standpoint much of the interest in animal agriculture has focused on impacts on water resources because animal waste if not properly managed can harm water quality through surface runoff direct discharges spills and leaching into soil and groundwater A more recent issue is the contribution of emissions from animal feeding operations AFO enterprises where animals are raised in confinement to air pollution AFOs can affect air quality through emissions of gases such as ammonia and hydrogen sulfide particulate matter volatile organic compounds hazardous air pollutants and odor These pollutants and compounds have a number of environmental and human health effects Agricultural operations that emit large quantities of air pollutants may be subject to Clean Air Act regulation Further some livestock operations also may be regulated under the release reporting requirements of the Comprehensive Environmental Response Compensation and Liability Act Superfund and the Emergency Planning and Community Right to Know Act Questions about the applicability of these laws to livestock and poultry operations have been controversial and

have drawn congressional attention Enforcement of these federal environmental laws requires accurate measurement of emissions to determine whether regulated pollutants are emitted in quantities that exceed specified thresholds Yet experts believe that existing data provide a poor basis for regulating and managing air emissions from AFOs In an effort to collect scientifically credible data in January 2005 the Environmental Protection Agency EPA announced a plan that had been negotiated with segments of the animal agriculture industry Called the Air Compliance Agreement it is intended to produce air quality monitoring data on AFO emissions during a two year study while at the same time protecting participants through a safe harbor from liability under certain provisions of federal environmental laws Participants will pay a civil penalty of about 500 per farm and will contribute 2 500 per farm for the monitoring program which is expected to begin in 2007 Many producer groups support the agreement as essential to gathering valid data that are needed for decision making However critics including environmentalists and state and local air quality officials say that the Air Compliance Agreement will grant all participating animal producers a sweeping retrospective and prospective liability shield for violations of environmental laws yet because fewer than three dozen farms will be monitored it is too limited in scope to yield scientifically credible estimates of AFO emissions Some industry groups have their own questions and reservations Nearly 2 700 AFOs representing more than 6 700 farms signed up to participate in the agreement In August 2006 EPA finished approving agreements with 2 568 AFOs This report reviews key issues associated with the Air Compliance Agreement It will be updated as warranted by events Background information on air emissions from poultry and livestock operations relevant federal environmental laws and regulations congressional interest state activities and research needs are discussed in CRS Report RL32948 Air Quality Issues and Animal Agriculture A Primer *Air Quality Issues and Animal Agriculture* Claudia Copeland,Resources, Science, and Industry Division,2005 This report focuses on the environmental quality of water resources as affected by animal agriculture specifically animal waste which can harm water quality through surface runoff direct discharges spills and leaching into soil and groundwater This report also discusses the contribution of emissions from animal feeding operations AFO enterprises where animals are raised in confinement to air pollution **Major Studies & Issue Briefs of the Congressional Research Service, Bibliography & Indexes to the ... Supplement ,2005**

Northeastern Geology and Environmental Sciences ,1999 **Air Quality Issues and Animal Agriculture ,2016**
Resources in Education ,1990 *Air Quality Issues and Animal Agriculture* Claudia Copeland,2008 **Oversight of Air Quality Issues Relating to the Agricultural Industry** United States. Congress. House. Committee on Agriculture. Subcommittee on Forestry, Resource Conservation, and Research,1997 **The Scientific Basis for Estimating Air Emissions from Animal Feeding Operations** National Research Council,Division on Earth and Life Studies,Board on Environmental Studies and Toxicology,Board on Agriculture and Natural Resources,Committee on Animal Nutrition,Ad Hoc Committee on Air Emissions from Animal Feeding Operations,2002-08-24 This is an interim report of the ad hoc Committee

on Air Emissions from Animal Feeding Operations of the National Research Council's Committee on Animal Nutrition. A final report is expected to be issued by the end of 2002. The interim report is intended to provide the committee's findings to date on assessment of the scientific issues involved in estimating air emissions from individual animal feeding operations: swine, beef, dairy, and poultry, as related to current animal production systems and practices in the United States. The committee's final report will include an additional assessment within eight broad categories: industry size and structure; emission measurement methodology; mitigation technology and best management plans; short and long term research priorities; alternative approaches for estimating emissions; human health and environmental impacts; economic analyses; and other potential air emissions of concern. This interim report focuses on identifying the scientific criteria needed to ensure that estimates of air emission rates are accurate; the basis for these criteria in the scientific literature and uncertainties associated with them. It also includes an assessment of the emission estimating approaches in a recent U.S. Environmental Protection Agency (EPA) report, *Air Emissions from Animal Feeding Operations*. Finally, it identifies economic criteria needed to assess emission mitigation techniques and best management practices. **Animal Waste and Water Quality**, 2007

According to the Environmental Protection Agency, the release of waste from animal feedlots to surface water, groundwater, soil, and air is associated with a range of human health and ecological impacts and contributes to degradation of the nation's surface waters. The most dramatic ecological impacts are massive fish kills. A variety of pollutants in animal waste can affect human health, including causing infections of the skin, eye, ear, nose, and throat. Contaminants from manure can also affect human health by polluting drinking water sources. Although agricultural activities are generally not subject to requirements of environmental law, discharges of waste from large concentrated animal feeding operations (CAFOs) into the nation's waters are regulated under the Clean Water Act. In the late 1990s, the Environmental Protection Agency (EPA) initiated a review of the Clean Water Act rules that govern these discharges, which had not been revised since the 1970s despite structural and technological changes in some components of the animal agriculture industry that have occurred during the last two decades. A proposal to revise the existing rules was released by the Clinton Administration in December 2000. The Bush Administration promulgated final revised regulations in December 2002; the rules took effect in February 2003. The final rules are generally viewed as less stringent than the proposal, a fact that strongly influences how interest groups have responded to them. Agriculture groups have said that the final rules are workable and they are pleased that some of the proposed requirements were scaled back, such as changes that would have made thousands more CAFOs subject to regulation. However, some continue to question EPA's authority to issue portions of the rules. Many states had been seeking more flexible approaches than EPA had proposed and welcomed the fact that the final rules retain the status quo to a large extent. Environmentalists contend that the rules rely too heavily on voluntary measures and fail to require improved technology. This report describes the revised environmental rules, the background of previous Clean Water Act rules, and the Clinton Administration proposal.

and perspectives of key interest groups on the proposal and final regulations It also identifies several issues likely to be of congressional interest as implementation of the revised rules proceeds Issues include adequacy of funding for implementing the rules research needs oversight of implementation of the rules and possible need for legislation The report is intended to provide background and will not be updated The revised CAFO rules were challenged by multiple parties and in February 2005 a federal court issued a ruling that upheld major parts of the rules vacated other parts and remanded still other parts to EPA for clarification In June 2006 EPA proposed revisions to the rules in response to the 2005 court decision for information on the status of this proposal see CRS Report RL33656 Animal Waste and Water Quality EPA s Response to the Waterkeeper Alliance Court Decision on Regulation of CAFOs which will be updated as warranted by developments

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