

1. Record Nr.	UNINA9910829868403321
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Titolo	Animal Manure : Production, Characteristics, Environmental Concerns, and Management // Heidi M. Waldrup, Paulo H. Pagliari, Zhongqi He
Pubbl/distr/stampa	[Place of publication not identified] : , : John Wiley & Sons, Inc., , 2020
ISBN	0-89118-371-X
Descrizione fisica	1 online resource (448 pages)
Disciplina	636.0838
Soggetti	Animal waste Manures
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Animal manure production and utilization: impact of modern concentrated animal feeding operations -- Paulo Pagliari, Melissa Wilson, Zhongqi He Temporal changes of manure chemical compositions and environmental awareness in the southern great plains -- Hailin Zhang, Fred Vocasek, Joao Antonangelo, Christopher Gillespie Common animal production systems and manure storage methods -- Kevin Janni, Erin Cortus Nitrogen and phosphorus characteristics of beef and dairy manure -- Paulo H Pagliari, Melissa Wilson, Heidi M Waldrup, Zhongqi He Nutrient characteristics of poultry manure and litter -- AJ Ashworth, JP Chastain, PA Moore Nutrient characteristics of swine manure and wastewater -- Melissa L Wilson, Suresh Niraula, Erin L Cortus Anaerobic digestion of dairy and swine waste -- J H Harrison, P M Ndegwa Farming characteristics and manure management of small ruminant and cervid livestock -- AB Norris, WB Smith Generation and management of manure from horses and other equids -- Michael L Westendorf, Carey A Williams, Stephanie Murphy, Laura Kenny, Masoud Hashemi Organic animal farming and comparative studies of conventional and organic manures -- Zhongqi He Fate and transport of estrogens and estrogen conjugates in manure-amended soils -- Xuelian Bai Managing animal manure to minimize phosphorus losses from land to water -- Peter JA Kleinman, Sheri Spiegel, Jian Liu, Mike Holly, Clint Church, John Ramirez-Avila Organomineral fertilizers and their application to field crops -- William

B Smith, Melissa Wilson, Paulo Pagliari Composting with or without additives -- Chryseis Modderman Thermochemical processing of animal manure for bioenergy and biochar -- Mingxin Guo, Hong Li, Brian Baldwin, Jesse Morrison Removing and recovering nitrogen and phosphorus from animal manure -- MB Vanotti, MC Garcia-Gonzalez, AA Szogi, JH Harrison, WB Smith, R Moral Pelletizing animal manures for on- and off-farm use -- Xiyang Hao, Zhongqi He Whole farm modeling: a systems approach to understanding and managing livestock for greenhouse gas mitigation, economic viability and environmental quality -- Mukhtar Ahmed, Shakeel Ahmad, Heidi M Waldrip, Mohammad Ramin, Muhammad Ali Raza Advances and outlook of manure production and management -- Zhongqi He, Paulo Pagliari, Heidi M Waldrip Veterinary pharmaceuticals, pathogens and antibiotic resistance -- Chaoqi Chen, Sheldon Hilaire, Kang Xia Environmental fate and transport of veterinary antibiotics derived from animal manure -- Wei Zheng, Mingxin Guo, George Czapar.

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Sommario/riassunto

The majority of meat, milk, and eggs consumed in the United States are produced in concentrated animal feeding operations (CAFO). With concentrated animal operations, in turn comes concentrated manure accumulation, which can pose a threat of contamination of air, soil, and water if improperly managed. Animal Manure: Production, Characteristics, Environmental Concerns, and Management navigates these important environmental concerns while detailing opportunities for environmentally and economically beneficial utilization.

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