

ANSI GELPP 0004-2002

American National Standard

Good Environmental Livestock Production Practices

*Concentrated Livestock Operations –
Manure Utilization*

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**ANSI®
GELPP 0004-2002**

**American National Standard for
Good Environmental Livestock Production Practices**

**Concentrated Livestock Operations –
Manure Utilization**

Secretariat
National Pork Producers Council

Approved February 20, 2002



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American National Standard

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FOREWORD (This foreword is not part of American National Standard Good Environmental Livestock Production Practices – Manure Utilization, GELPP 0004-2002)

The Good Environmental Livestock Production Practices (GELPP) are compilations of best management practices (BMP) that are commonly applied throughout confined livestock production operations. There are separate GELPPs addressing each of the five fundamental concentrated livestock production risk areas: 1) General Site Conditions, 2) Production Areas, 3) Outdoor Manure and Storm Water Storage, 4) Manure Utilization, and 5) Mortality Management. The BMPs that have been incorporated in the GELPPs are considered to be the fundamental environmental management practices that are necessary for a livestock production operation to function in an environmentally sound and protective manner. The BMPs that make up the GELPPs are based on academic research, professional society publications, guidance from governmental agencies, and the findings from on-farm assessments conducted on concentrated livestock production operations throughout the United States.

The GELPPs aid the entire confined livestock production industry by presenting essential environmental management and protection practices in a consistent and objective format that can be applied across the United States. The GELPPs allow this broad application because they are designed as performance-based standards.

There is one Annex in this standard. Annex A is informative and not considered part of this standard. This annex gives additional information and is intended to provide further explanation of certain specifications in this standard to avoid misinterpretations.

Suggestions for improvement of this standard are welcome. They should be sent to Environmental Management Solutions, LLC, Attention: GELPP Coordinator, 7733 Douglas Avenue, Urbandale, Iowa 50322.

Consensus for this standard was achieved by use of the Canvass Method.

The following organizations, recognized as having an interest in the standardization of environmental practices at confined livestock operations were contacted prior to the approval of this standard. Inclusion in this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to the American National Standards Institute.

America's Clean Water Foundation
American Society of Agricultural Engineers
American Society of Agronomy
Association of State and Interstate Water Control Administrators
Determan Farm
Farmland Industries
Henrys Limited
Hitch Enterprises
Kansas State University
National Council of Farmer Cooperatives
National Turkey Federation
Premium Standard Farms
Prestage Farms
Roper Farm
Texas A&M University
U.S. Department of Agriculture, Natural Resources
Conservation Service
U.S. Department of Agriculture, Agricultural
Research Service
University of Nebraska
Uphoff Ham & Bacon Farm
Utah State University
Wenger Feeds

American National Standard Good Environmental Livestock Production Practices

Concentrated Livestock Operations – Manure Utilization

1. Introduction

Recognition of the importance of environmental management at livestock production operations in the U.S. has dramatically increased in the past few years. This recognition has come about due to increased regulation, private litigation, and the desire of the livestock industry to continue, and to improve wherever practical, their environmental stewardship.

This standard is the fourth in a series that addresses environmental issues related to livestock production at animal feeding operations (AFO). This standard, as well as the other standards in the series, is referred to as a good environmental livestock production practice (GELPP). The GELPPs are a compilation of best management practices (BMP) obtained from various sources, including United States Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) publications, university publications, commodity groups and other livestock industry experts. Until now, these GELPPs have not been compiled and applied consistently across the industry. These GELPPs are designed to minimize the potential for an AFO to negatively impact the environment (i.e., air, ground water, surface water and soil).

By implementing these GELPPs, livestock producers should significantly reduce their potential to negatively impact the environment. In addition, application of the GELPPs will demonstrate the producers' commitment to environmental stewardship.

1.1 Scope

This standard presents GELPPs related to the utilization of manure and other nutrient produced from livestock production. The GELPPs apply to the land application of nutrient enriched liquids and solids generated at all types of AFOs, including but not limited to those producing hogs, beef cattle, milk (dairies), meat birds and eggs (layers). **AFOs that are not included in any of the above species will utilize the most appropriate species' GELPPs.**

This standard is applicable to any AFO that wishes to:

- a) minimize its potential to generate negative environmental impacts;
- b) demonstrate good environmental stewardship; and,
- c) improve relationships with all parties directly or indirectly affected by the operation.

2. Definitions

1.2 Application Logs

Written records that document the time and date of a manure application event, the amount of manure applied to each field, identification of the fields receiving manure, temperature, wind speed and direction, relative humidity, and the identity of the application method and person conducting the application.

2.2 Animal Feeding Operation (AFO)

Any facility where animals have been, are or will be stabled or confined and fed or maintained for 45 days or more per year, and where crops, vegetation, forage, growth or post-harvest residues are not sustained in the normal growing season over any portion of the facility.

2.3 Buffer Strip

See "Grass Filter."