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Nomenclature/Terminology for Livestock Manure Handling Equipment



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Proposed by the Farmstead Equipment Association of the Farm and Industrial Equipment Institute, approved by the ASAE Agricultural Sanitation and Waste Management Committee and the ASAE Wagon Box, Forage Box, Manure Spreader and Farm Wagon Subcommittee; approved by the ASAE Structures and Environment Division Standards Committee; adopted by ASAE March 1987; reconfirmed December 1991; reaffirmed December 1996, December 1997; revised December 1998; reaffirmed February 2004, February 2009; revised October 2012; reaffirmed October 2016.

Keywords: Livestock, Manure, Terminology, Waste

1 Purpose and scope

1.1 The purpose of this Standard is to define the terminology and establish uniformity within the field of livestock waste/manure handling equipment.

1.2 By these definitions, existing and newly developed equipment can be categorized, compared and rated as to intended purpose and performance.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies unless noted. For undated references, the latest approved edition of the referenced document (including any amendments) applies.

ASAE S292.5 OCT1994 (R2009), *Uniform Terminology for Rural Waste*

3 Definitions

3.1 See ASAE S292 for definitions of related structures, material handling, and waste handling practices.

3.2 transfer equipment/handling facilities

3.2.1 manure transfer device: A device whose primary function is to move manure from a collection point to a treatment or storage facility, and from storage or treatment facility to processing or utilization.

3.2.1.1 displacement manure pump: A positive displacement transfer device that utilizes a variety of methods to move primarily semi-solid manure through a pipeline.

3.2.1.1.1 piston manure pump: A pump that uses a reciprocating piston and cylinder to move manure from a collection hopper into and through a pipeline. The pump may be mechanically or hydraulically powered. The cylinder can be of various shapes: round, square, etc.

3.2.1.1.1.1 solid piston manure pump: A piston manure pump that uses a solid piston to move manure. The operation fully retracts the piston from the cylinder, charges the cylinder with manure, and then extends the piston into the cylinder to move the manure. Piston travel may be along a vertical, horizontal, or inclined axis.