

Design and Management of Storages for Bulk, Fall-Crop Irish Potatoes



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1 Purpose and scope.

1.1 This Engineering Practice provides a guide for the functional design and management of permanent, bulk storages for Irish potatoes.

1.2 This Engineering Practice applies specifically to the late-crop (fall-crop) area of the United States and Canada. This area is north of latitude 40°. It may be applicable in other geographic areas with similar climatic conditions and potato varieties. For more precise guidelines contact individuals that are knowledgeable about unique local weather conditions and potato varieties.

1.3 This Engineering Practice applies to storages that are designed to hold the product for more than two or three months.

2 Normative references

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

ANSI/ASAE EP446.3 APR08 Loads Exerted by Irish Potatoes in Shallow Bulk Storage Structures

ANSI/NFPA 70 National Electrical Code

ANSI/ASCE 7 Minimum Design Loads for Buildings and Other Structures

ASAE EP378 June 2010 Floor and Suspended Loads on Agricultural Structures Due To Use

ASAE D271 Psychometric Data

ASAE S401 Guidelines for the use of Thermal Insulation in Agricultural Buildings

ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials