



Pressures on Walls of Potato Storage Bins (Classic Reprint) (Paperback)

By Alfred Douglas Edgar

Forgotten Books, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Pressures on Walls of Potato Storage Bins In order to design and construct economical potato storage structures it is necessary to know what pressures potatoes exert on walls and partitions of storages. A series of studies was conducted in Maine, Colorado, and Minnesota to determine these pressures. Maine and Colorado studies were based on the deflection of calibrated wood planks in bin walls. Pressure cells made of two steel discs were also tried at Colorado. In the Minnesota tests, pressures were measured by the deflection of calibrated steel bars supporting vertical wall panels. Early analyses showed that potato pressures on bin walls followed the same pattern as ear corn but were lower. Potato pressures were found to increase with time both in tests and in practice. More partitions fail as an adjoining bin is emptied than when a bin is filled next to one that is empty. Settling of potatoes may leave voids, into which potatoes later may wedge, due to vibration. Vibration caused by passing trains and trucks is more noticeable after the ground freezes. But vibration due to...



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