

Title Ecologically friendly methods used in Cyprus for grain storage and protection (a combination of hermetic storage, aeration and fumigation using phosphine from cylinders and in sleeves).

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Abstract

Experience in Cyprus shows that the use of storage structures such as hermetic bins, bunkers and platforms, in combination with fumigation systems (such as SIROFLO using phosphine gas from cylinders, or fumigation with phosphine in the form of strips, sleeves or crushed tablets), followed by aeration to remove chemical residues, is a successful means for safe, ecologically friendly protection of grain during storage. The aeration of grain in bins is an important way to protect grain quality, minimizing the need for insecticides. The new technology of aeration of grain in bunkers may solve condensation problems and increase the permissible initial moisture content of grain for bunker storage. The storage of grain in bunkers is a low-cost way to rapidly increase the storage capacity of many countries. The above methods of storage and grain protection minimize the need to use liquid insecticides or methyl bromide and they have ecological advantages.