7 IMPC MAN	ORTANT REASONS W IAGERS USE TEMPE	VHY SUCCESSFUL GRAIN ERATURE MONITORING
 Maximum systems. 	energy efficiency of aeration	Helps keep grain in highest quality condition.
Provides accurate information for safe, long term storage.		Detection of mold growth.
Alerts man grain cond	agers more quickly to changing itions.	Detection of insect activityMonitors the effectiveness of fumigation.
Stored grain is constantly threatened by moisture migration, mold activity and insect infestation. When grain goes out of condition, regardless of the cause, there is always an increase of temperature in the critical area. These hazards are detected before loss occurs with a bin temperature monitoring system.		
TEMPERATURE MONITORING With a temperature record, a grain manager determines changes in stored grain. High temperature is no cause for alarm if the grain was stored warm, but an increase of only a few degrees in a zone of grain may indicate a serious potential problem. Even grain stored at cool temperatures has the same potential hazard indicated by a minor temperature rise in an area of the grain mass. A temperature detection system keeps the smart grain manager alerted to these warnings before loss occurs.		
Ŷ	M All stored grain is infected to a certain ext will stimulate mold growth and lower the cracks which are fifteen times as rece increases chances for grain loss.	OLD ACTIVITY rent with various types of mold. Moisture and temperature e quality of stored grain. Turning of grain creates stress eptive to mold growth and damage, so turning greatly
R	Insect activity always increases temperar not the average) can focus into a zone of but fumigant costs can be reduced if the reproduction in warm grain—consuming literally give energy to their ever increat dormant if subjected to low temperature.	NFESTATION ture in stored grain. The warmest part of the mass (and insect growth. Infestation can be arrested with fumigants, grain temperature can be maintained. Insects accelerate it with their growth—generating more and more heat to asing masses. However, practically all insects become
	MOIS Even though stored grain has a uniform to days create movement of air through the zones of temperature variance and mois the stored grain encourages respiration combined action of convection and respin can be cooled and the mass maintained a remove a warm front from stored grain as the need for turning. One half of one p turned, plus the increase kernel damage equipment.	TURE MIGRATION emperature and moisture content, cool nights and warmer grain mass. This convection picks up moisture to create ture accumulation. This increase of moisture in a part of n of grain carbohydrates and production of heat. The ration can mushroom into serious losses unless the grain at uniform moisture and temperature content. Aeration will s well as maintain its safe storage condition and eliminate ercent goes to invisible loss each time a bulk of grain is ge is inevitable, as well as reduction in life of handling
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