





•- to offer the techniques applied to enhance the safety the grain mass with the help of drying it out;

Losses in Maize of two types:

| Losses in Maize can be of two types: | |
|--|--|
| Quantity Loss | Quality Loss |
| · Improper time of harvesting | · Change in colour, smell or taste |
| · Inconsistent Harvest technology | · Contamination with toxins |
| · Improper drying methods | · Pathogen |
| Spillage during storage | · Insect excreta |
| Damage caused by pest organism (Aflatoxin) | · Reduction in nutritional value |
| · Poor handling | |
| Damage caused due to rodents | |
| | Land Control of the C |

Drying of Maize

low moisture content and low storage temperatures reduce the opportunity for deterioration and microbial growth

<u>Storage</u>

- The efficient conservation of maize depends basically on:
 - the ecological conditions of storage (relative humidity, temperature, etc.);
 - the physical, chemical and biological characteristics of the grain;
 - the storage period;
 - the type and functional characteristics of the storage facility;

- A good storage structure should:
 - not allow re-wetting of grain by either moisture migration or rain;
 - offer reasonable protection from thieves, natures vagaries or any other factor of physical damage;
 - allow aeration as it helps in keeping down the relative humidity of interstitial gases;
 - proper sanitization and fumigation to prevent growth of pathogens;

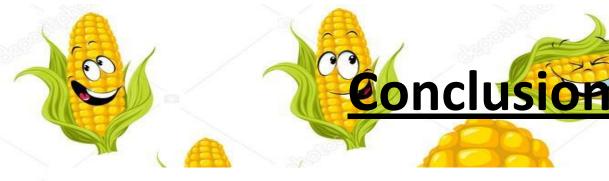


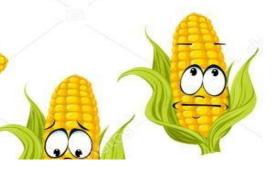
- the principal advantages of bulk handling are:
 - great saving in time and cost of handling the grain
 - saves the cost of providing hags every season;
- silos form an integral part of bulk handling of commodities;



Effective Post Harvest Techniques for Maize:

- low moisture content;
- good quality storage infrastructure;
- comprehensive spectrum of value added services provided under one roof;
- these value added services also includes primary; processing which will further prevent undue movement of goods;
- discovery and risk management tools;
- gearing up for bulk handling techniques and creating the requisite infrastructure across the value chain





- analysis of about 40 scientific literature confirmed that there are a lot of techniques allowing to increase the life and resistance of Maize;
- a major outcome of the research work is that we have managed to develop the method technology appeared to enhance the safety the maize the help of drying it out











