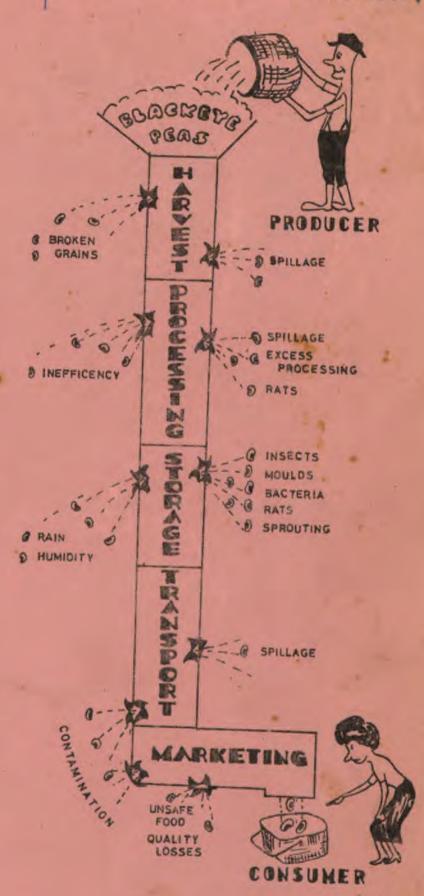
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POST HARVEST FOOD LOSSES



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POST HARVEST FOOD LOSSES

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* That on September 19, 1975 the United Nations General Assembly passed this resolution?

"The further reduction of post harvest food losses in developing countries should be undertaken as a matter of priority, with a view of reaching at least 50% reduction by 1985. All countries and competent international organisations should co-operate financially and technically in the effort to achieve this objective."

* That Food Losses necessitate importation and consequently increase the outflow of foreign exchange?



* That Food Losses can cause higher consumer prices, and thus increase the cost of living?

* That although Food Losses are usually measured on a <u>weight</u> basis, many losses show a higher percentage <u>nutrient</u> loss than weight loss figures alone would show?

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* That in order to reduce post harvest losses it is necessary storreduce losses at every step along the chain that connects the producer to the consumer?





- * That there are four types of losses?
 - 1 Quantitative loss
 loss in weight or volume
 - easily measured
 - 2 Qualitative loss
 - changes in quality more difficult to measure
 - can be valued by grading standards
 - Nutritional lossloss in nutritional value
 - 4 Seed loss
 loss in germination ability



- * That most farmers
 - do not know that losses occur?
 - or know that losses occur but simply accept them?

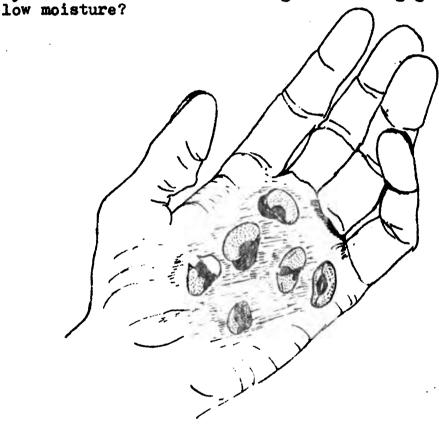


- or are concerned about losses but do nothing although they know what to do?
- or are concerned about losses but do not know what to do about them?

* That harvest losses can occur

- by spillage?
- by harvesting with the wrong equipment, or the equipment not being properly adjusted, or the operator not knowing how to operate the equipment efficiently?
- by harvesting at the wrong time, that is, when the grain is at too high or too low moisture content?

- by combine harvesters breaking or cracking grains at



Cracked and broken grains

- by combine harvesters bruising or crushing grain at high moisture?



- * That threshing can also cause losses through
 - spilling?
 - cracking?
 - breaking?
 - bruising?



- * That losses at processing (cleaning and grading) can be caused by
 - improper cleaning?
 - excessive cleaning?
 - spillage?



- * That losses in storage can be caused by
 - insects?
 - rats?
 - contamination by chemicals or rat urine, etc.?
 - incomplete drying which helps to speed up the growth of insects and moulds, and can cause grain to sprout?



- * That transportation losses can occur through
 - spillage, that is, by bags or other containers bursting?
 - rain. That is the grain becoming soaked?



- * That marketing losses can be caused by
 - contamination?
 - spillage?
 - bad packaging?



* That fungi and moulds produce toxins in beans?

Toxins can be harmful to man and to animals.



* That insects (weevils, cockroaches) act as carriers for a number of public health diseases?



* That insects feed on the part of the bean that is of greatest value to man, causing great reduction in nutritional value?



* That insect fragments and excreta give rise to poor appearance and bad smell and hence low consumer acceptability?



(2)

* That rat excreta give rise to poor appearance and bad smell

and hence less consumer acceptability?



* That rat-attacked beans can give rise to a disease called leptospirosis?



- * That losses occur in the house (the consumer's home)
 - if the product is not propperly packaged

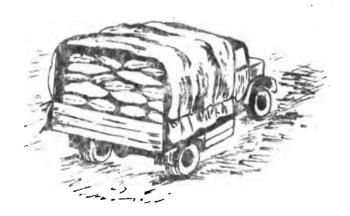


- if the product is not properly stored?
- if the housewife prepares quantities in excess of the family's needs?





- * That losses can be reduced
 - by harvesting at the correct time?
 - by using the right machines with the proper adjustments?
 - by training operators how to use machines efficiently?
 - by taking care when threshing, cleaning and grading grain?
 - by proper drying to reduce the growth of fungus and insects?
 - by fumigating to kill insect pests in storage?
 - by storing in clean, dry places?
 - by eliminating rats and other pests from storage?
 - by using adequate and efficient transportation facilities?

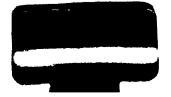


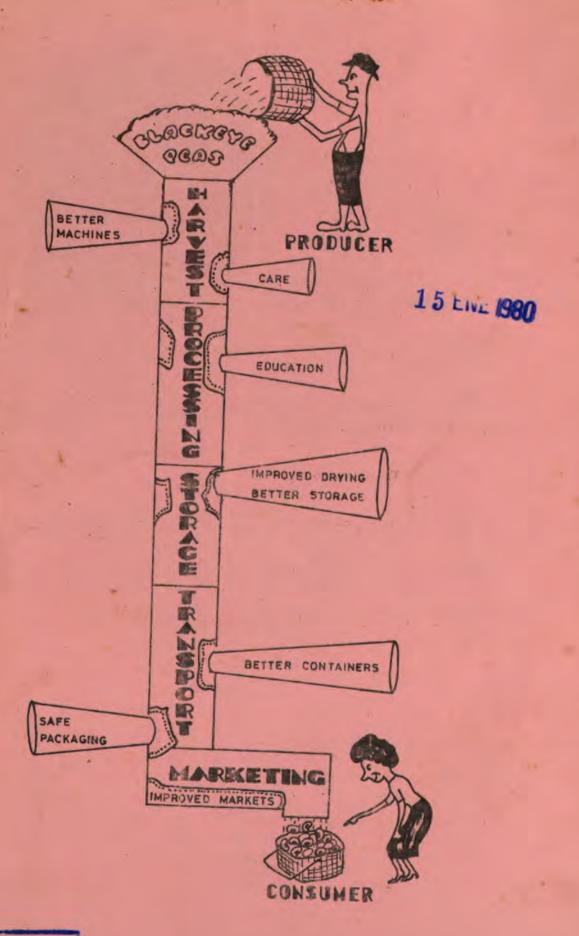
- by taking care when on-loading and off-loading produce?
- by storing and transporting grain in clean containers?
- by taking care that containers (bags, etc.) offer adequate protection and permit easy handling?





- 1 Plant at the right time so that the crop can be harvested during the dry season.
- 2 If harvesting or threshing by machine, make frequent checks to ensure that there is minimum breakage and spillage.
- 3 Grain must be properly dried (at least 14% moisture) before storing.
- 4 Ensure storage area and storage containers are clean before placing grain in storage.
- 5 Store in dry places.
- 6 Keep rats and other pests out of storage areas.
- 7 Avoid getting grain wet during transportation.
- 8 Avoid unnecessary delays between operations





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