Dry Beans - Best Practices for Improved Nutrition and Incomes: Handle Beans with Care and Keep them Clean

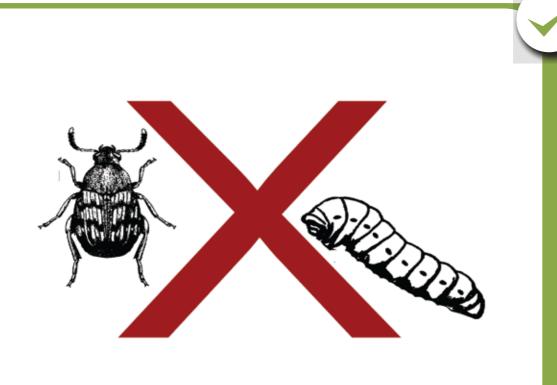
GOOD PRACTICES



Winnow, Sort and grade beans before storage and selling



Keep the storage room clean all the time



Control pests and vermin with recommended methods such as pesticides



Keep animals away from threshing, drying and storage facilities

STANDARD IMPACTED

ORGANIC MATTER:

Organic matter is any animal or plant matter (seed coats, straws, weeds) other than beans, damaged beans inorganic extraneous matter and harmful/toxic seeds.



INORGANIC MATTER:

Inorganic matter is matter other than beans comprising of: metallic pieces, shale glass, dust, sand, gravel, stones, dirt, pebbles, lumps or earth, clay and mud.

FOREIGN MATTER:

Foreign matter, % m/m

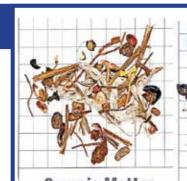
Characteristic



Inorganic Matter

PESTICIDE RESIDUES

A pesticide is a chemical that is used to prevent, destroy, or repel pests. Most pesticides contain chemicals that can be harmful to people, animals, or the environment. Dry beans shall comply with pesticide residue limits established by the Codex Alimentarius Commission for this commodity.



Foreign Matter = Organic Matter + Inorganic Matter

Grade 3

Maximum Limit

Grade 2

0.75

PEST DAMAGED BEANS:

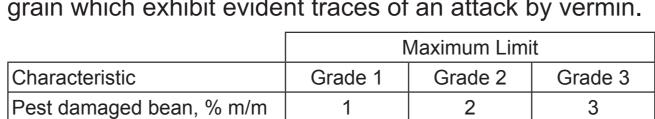
dry beans or other food grains.

Pest damaged beans are dry beans with obvious weevilbored holes or which have evidence of boring or tunneling, indicating the presence of insects, insect webbing or insect refuse; grains chewed in one or more than one part of the grain which exhibit evident traces of an attack by vermin.

This is all organic and inorganic matter other than

Grade 1

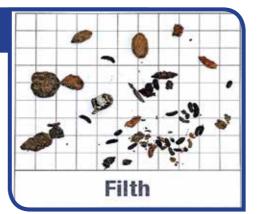
0.5



FILTH:

Filth are impurities of animal origin for example animal bone fragments, bird excrement and rat droppings.

	Maximum Limit		
Characteristic	Grade 1	Grade 2	Grade 3
Filth, % m/m		0.1	



Pest-Damaged Grain

BROKEN/SPLIT BEANS:

These are beans whose cotyledons have been separated or one or both of the cotyledons have been broken.

	Maximum Limit		
Characteristic	Grade 1	Grade 2	Grade 3
Broken/split, % m/m	1	2	3



OTHER CONTAMINANTS:

These are metals such as arsenic, cadmium, lead and mercury which are natural occurring chemical compounds at various levels in the environment e.g. soil, water and atmosphere. Metals can occur as residues in food because of their presence in the environment, as a result of human activities such as farming, industry or car exhausts or from contamination during food processing and storage. People can be exposed to these metals from the environment or by ingesting contaminated food or water. Their accumulation in the body can lead to harmful effects over time.

Heavy metal	Maximum limit for all grades,	
Lead, mg/kg	0.2	
Cadmium, mg/kg	0.1	

BAD PRACTICES

Do not thresh beans from an unclean place, bare ground or tarmac



Avoid excessive beating / hitting beans when threshing



Do not add stones, sand and small metals



Do not let pests damage the grain



Do not store beans on the ground and in the same store with animals



Do not store beans in the same store with pesticides/ chemicals









