

# Meat Inspection and Grading

Purpose of inspection of meat is to protect the consumer by ensuring wholesomeness of carcass, meat and meat products.

## Elements of meat inspection

Following are the elements of meat inspection:

1. Sanitation inspection
2. Ante mortem (pre-slaughtering) inspection
3. Post mortem inspection
4. Control and restriction of condemned material
5. Product inspection
6. Laboratory inspection
7. Marketing and labeling

## Meat Grading

Meat grading refers to the segregation of meat or meat products, depending upon two attributes as:

- Quality (palatability)
- Yield (Compositional quality)

Different grades of meat and their characteristics

1. **Prime Grade:** It contains abundant marbling. It is meat of young animal.
2. **Choice Grade:** It contains more marbling but less than prime grade. It is meat of young animal.

Above grades are preferred for dry cooking methods.

3. **Select Grade:** In this, marbling is present but less than prime and choice grade. It is meat of young animal.
4. **Standard Grade:** In this, marbling is not present. It is meat of young animal.
5. **Commercial Grade:** It contains marbling but it is meat of mature animal.

Above three categories are usually preferred for wet/moist cooking methods.

6. **Utility Grade:** It contains no marbling and it is meat of mature animal.

Utility grade is usually used in the form of minced meat.

## **Factors used to establish meat quality grades**

- **Kind and class of animal:** Kind is specie of specific animal and class is based on gender.
- **Maturity:** It is age of animal.
- **Marbling:** Its intramuscular fat. Presence of marbling improves palatability of meat.
- **Firmness:** It depends on internal, external and total amount of fat. It doesn't affect eating quality. It affects appearance of meat.
- **Confirmation and fleshing:** Confirmation is muscle to bone ratio. If muscle to bone ratio is more than it is good quality and vice versa, while flesh is total amount of meat.

## **Factors used to establish meat yield**

- **Amount of fat:** More amount of fat, less yield of meat.
- **Muscle development:** More muscles will yield more meat
- **Carcass weight:** More weight, more meat.

