

# Concentrate level and slaughter body weight effects on growth performances and carcass quality

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## Objective

- ✓ Evaluate the effects of concentrate level (CL) and slaughter body weight (SW) on growth performances and carcass quality in barbarin lambs.

## Materials and Methods

- ✓ 24 weaned male barbarin lambs ( $23.1 \pm 0.4$  kg), received hay-based diet ad libitum

- ✓ 12 lambs : Low concentrate level (300 g)

- ✓ 12 lambs : High concentrate level (600 g)

- ✓ SW1 : 35 kg

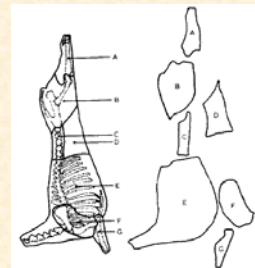
- ✓ SW2 : 42 kg

- ✓ SW1 : 35 kg

- ✓ SW2 : 42 kg

## Measurement

- ✓ growth performances
- ✓ carcass and viscera weight
- ✓ joints weight (Fisher and De Boer, 1994)
- ✓ joints dissection into meat and bone



- A : Distal pelvic limb
- B : Proximal pelvic limb
- C : Lumber region
- D : Abdominal region
- E : Neck and thorax
- F : Distal thoracic limb
- G : proximal thoracic limb

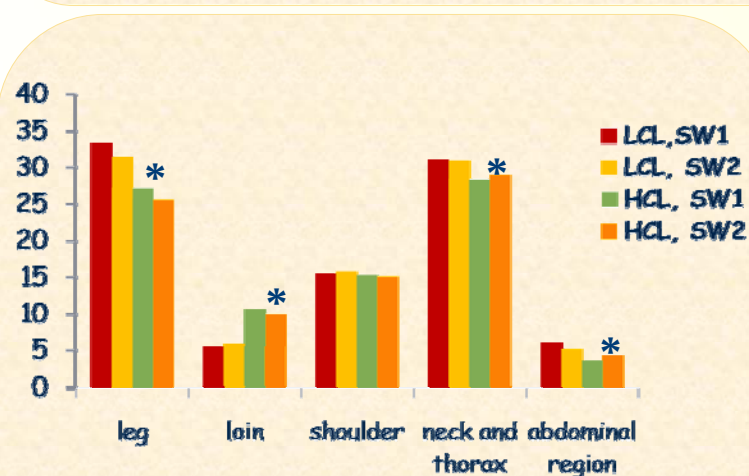
## Results

Effect of CL and SW on ADG, dressing and viscera percentages

|                          | LCL  |      | HCL    |        |
|--------------------------|------|------|--------|--------|
|                          | SW1  | SW2  | SW1    | SW2    |
| ADG (g)                  | 76.6 | 77.6 | 123.6* | 119.8* |
| Slaughter weight (kg)    | 34.0 | 38.8 | 33.8*  | 42.5*  |
| Dressing percentage      | 51.5 | 54.6 | 54.1*  | 55.0*  |
| Red viscera (%)          | 3.9  | 3.4  | 3.9    | 3.8    |
| Empty digestive tract(%) | 8.4  | 7.4  | 8.6    | 8.2    |
| Tail (%)                 | 8.7  | 9.8  | 8.6    | 12.9*  |

For HCL:

- ✓ Higher ADG,
- ✓ Higher dressing
- ✓ Higher tail proportion



### Joints proportions :

- ✓ Higher loin proportion and lower leg proportion for HCL.

### Meat proportions :

- ✓ Lower carcass meat proportion for HCL
- ✓ No clear effect of SW

