The Book of Abstracts represents the main publication of the 47th Annual Meeting of the European Association for Animal Production in Lillehammer from 25 - 29 August, 1996. It contains abstracts of the invited papers and contributed presentations including posters. The Book of Abstracts contains 675 abstracts in total.

The meeting has sessions in the fields of Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Pig Production, Sheep and Goat Production, and Horse Production. In addition, joint sessions on topics related to several disciplines or species are included.
Ultrasonic measurements for predicting carcass quality and body fat deposits in terms of Aragon-Spain
R. Deja, C. Gonzalez, E. Vilij and L. Teixeira
1 Unidad de Tecnologia en Produccion Animal, SIA-DGA, Apdo. 727, 50080 Zaragoza - España.
2 Escola Superior Agraria de Bragança, Apdo. 172, 5300 Bragança - Portugal.

The accuracy of the use of nine ultrasonic measurements of lumbar fat thickness, nine measurements of longissimus dorsi depth, three measurements of sternum fat thickness, for predicting the carcass quality and body fat deposits were assessed in 24 live Aragon lambs. The inclusion of body weight increase for a further 28 and 15% of the variation in the total carcass fat was accounted for in the weight of main carcass joints: leg, rib and shoulder, respectively.

The accuracy of the use of nine ultrasonic measurements of lumbar fat thickness, nine measurements of longissimus dorsi depth, four measurements of sternal fat thickness, for predicting the weight of carcass joints were assessed in 27 adult Blanca Celtibérica goats ranging in sternal body condition score from 1.5 to 4.5. Comparison between the ultrasonic measurements assessed in live goats with the same measurements taken on carcass were established and the best relationships were obtained between the 1st-2nd and the 3rd-4th lumbar vertebrae on the left side. Nevertheless the highest correlations were obtained between the ultrasonic sternal fat thickness and the same measurements taken on carcass. Between 77 and 93% of the variation in weight of carcass joints were accounted for by variation in ultrasonic measurements taken on sternum and lumbar region. The ultrasonic muscle depth assessed between the 3rd-4th lumbar vertebra accounted for 86, 88 and 84% of variation in the weight of main carcass joints: leg, rib and shoulder, respectively.

Ultrasonic measurements for predicting carcass quality in live goats
R. Deja, C. Gonzalez, A. Teixeira and E. Vilij
1 Unidad de Tecnologia en Produccion Animal, SIA-DGA, Apdo. 727, 50080 Zaragoza - España.
2 Escola Superior Agraria de Bragança, Apdo. 172, 5300 Bragança - Portugal.

The accuracy of the use of nine ultrasonic measurements of lumbar fat thickness, nine measurements of longissimus dorsi depth, four measurements of sternal fat thickness, for predicting the quality of different carcass joints were determined in 27 adult Blanca Celtibérica goats ranging in sternal body condition score from 1.5 to 4.5. The sternal measurements taken in 2nd. 3rd and 4th sterna were the best predictors of all different fat deposits in different carcass joints. Between 65% and 85% of the variation in muscle were accounted for by variation in ultrasonic muscle depth assessed between the 3rd-4th and the 34th lumber vertebra. The inclusion of an ultrasonic measurement assessed in the sternum and the ultrasonic lumbar fat thickness as independent variables in a multiple regression improved the precision of muscle prediction (82 and 92% of the variation explained).