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## Relationship Between Body Condition And Metabolic Profiles In Cows

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The purpose of conducting this study was primarily to determine the interconnection of the metabolic profile indicators with the BCS in cows in various physiological states. From the current study it was found out that the interconnection of the BCS with the metabolic indicators based on the physiological status was quite strong in cows two weeks prior to calving ( $R^2=0.69$ ;  $F_{log}=6.36$ ,  $P=0.00051$ ). In the two-week period following calving this relationship remains equally strong ( $R^2=0.65$ ;  $F_{log}=4,5$ ;  $P=0.0053$ ). Whereas in the one-month period following calving the relationship becomes weak and not scientifically significant ( $R^2=0.44$ ;  $F_{log}=1.9$ ;  $P=0.13$ ). In the two-month period after calving the relationship tends to turn moderate, but otherwise statistically significant ( $R^2=0.55$ ;  $F_{log}=3.1$ ;  $P=0.025$ ).

**Keywords:** BCS, metabolic profiles, multi-factor regress, physiological periods