

Alternative Barn Design Applicable in Different Environmental Condition for Goat Breeding[#]

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Received August 01, 2015; Accepted September 02, 2015

Abstract: In this study, the design of alternative open front barn with lot practicable for goat farm with different capacity was carried out. In the barn design, animal behaviour, barn area preference, and animal welfare were paid attention. To provide fresh air and sun to the animals was considered principal factors of the planning of barn. Portable walls were mounted to resting area having a frontage on courtyard to protect animals from adverse effects of the season in winter or cold regions. Goats were planned to be in group paddock. In this project based on calm paddock, using different areas were provided to goats in different seasons. The goat barn areas were designed as 2.1 m²/ goat, 3.2 m²/ goat and 0.4 m²/ goat in the resting, courtyard and feeding area respectively. It can be said that higher productivity rates will be achieved using developed barn design in goat breeding.

Key words: *Goat Barn Design, Barn Design, Goat Housing, Goat Breeding.*

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[#]This paper is presented a part of M.Sc. Thesis of Hasan Aslan