

GENETIC STUDIES ON AWASSI SHEEP IN PAKISTAN.
2. PHENOTYPIC, GENETIC AND ENVIRONMENTAL CORRELATIONS
AMONG BIRTH WEIGHT AND SOME PRODUCTIVE TRAITS

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ABSTRACT

Data on 872 lambs of Awassi sheep from 23 sires maintained at Livestock Production Research Institute, Bahadurnagar (Okara) during 1965-84 were analysed to estimate the genetic parameters by paternal halfsib analysis. The phenotypic, genetic and environmental correlations among birth weight and some other productive traits were: 0.141, 0.513, 0.054 for 60 days weight; 0.235, -1.763, 0.226 for 120 days weaning weight; 0.240, 0.913, 0.318 for first breeding season; 0.144, -0.797, 0.143 for preweaning average daily growth rate from birth to weaning and 0.106, 0.628, 0.886 for greasy fleece yield at first shearing, respectively.

INTRODUCTION

Information on genetic parameters of economic traits of sheep under Pakistani environment are not available. Heritability and genetic correlations among productive traits are the measures of genetic parameters. Heritability estimates decides the amount of