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Determination of economic value for Kordi sheep traits at North Khorasan

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Abstract

In this study were used production, reproduction and economic parameters resulted from recording 25 herds including 4030 ewe breeding during an annual production cycle of rural production system at North Khorasan Province. The cost-benefit analysis and estimates of economic values of traits were performed using three methods of maximum profit, maximum income per unit of cost and minimum cost per unit of income. The result showed that breeding biological index 0.71 in North Khorasan flocks. Important sources of costs were nutrition, labor, health, maintenance and fixed costs, 82.8, 15.7, 0.82, 0.51 and 0.17 percent of total costs respectively. Income sources include live weight sales, milk and wool sales were 93.5, 6.3 and 0.21 percent of total income respectively. The net profit per ewe per year was 7676638 Rials. The relative coefficients of traits in the maximum profit method were 5.02 for pregnancy rate, 4.62 for survival ewe, 4.40 for lambing frequency, 4.37 for lamb survival up to weaning, 4.24 for survival up to yearling, 1.25 for litter size, 1 for milk yield, 0.69 for seaming weight, 0.64 for wool yield and -0.48 for replacement weight. The relative coefficients of pregnancy rate, survival ewe, lambing frequency, lamb survival up to weaning, survival up to yearling, litter size, milk yield, seaming weight, wool yield and replacement weight in the method of maximum profit per cost unit were 0.76, 7.01, 6.68, 6.8, 6.62, 0.72, 1, 1.08, 1, -1.05 and in the method of minimum cost of profit -7.53, -6.94, -6.61, -6.76, -6.55, -0.72, -1, -10.76, -0.99 and 1.04 respectively. Sheep breeding was profitable trade in the North Khorasan Province. The traits of breeding objectives were pregnancy rate, survival ewe, lambing frequency, lamb survival

up to weaning, survival up to yearling, litter size, milk yield, sealing weight, wool yield and replacement weight.

Keyword: Economic Value, Breeding objective, Kordi sheep