

than in the female; and Fitzinger⁸⁴ remarks that the mane in the African maned race is far more developed in the ram than in the ewe.

Different races of sheep, like cattle, present constitutional differences. Thus the improved breeds arrive at maturity at an early age, as has been well shown by Mr. Simonds through their early average period of dentition. The several races have become adapted to different kinds of pasture and climate: for instance, no one can rear Leicester sheep on mountainous regions, where Cheviots flourish. As Youatt has remarked, "In all the different districts of Great Britain we find various breeds of sheep beautifully adapted to the locality which they occupy. No one knows their origin; they are indigenous to the soil, climate, pasturage, and the locality on which they graze; they seem to have been formed for it and by it."⁸⁵ Marshall relates⁸⁶ that a flock of heavy Lincolnshire and light Norfolk sheep which had been bred together in a large sheep-walk, part of which was low, rich, and moist, and another part high and dry, with benty grass, when turned out, regularly separated from each other; the heavy sheep drawing off to the rich soil, and the lighter sheep to their own soil; so that "whilst there was plenty of grass the two breeds kept themselves as distinct as rooks and pigeons." Numerous sheep from various parts of the world have been brought during a long course of years to the Zoological Gardens of London; but as Youatt, who attended the animals as a veterinary surgeon, remarks, "few or none die of the rot, but they are phthisical; not one of them from a torrid climate lasts out the second year, and when they die their lungs are tuberculated."⁸⁷ There is very good evidence that English breeds of sheep will not succeed in France.⁸⁸ Even in certain parts of England it has been found im-

⁸⁴ 'Racen des Zahmen Schafes,' s. 77.

⁸⁵ 'Rural Economy of Norfolk,' vol. ii. p. 136.

⁸⁶ Youatt on Sheep, p. 312. On same subject, see excellent remarks in 'Gardener's Chronicle,' 1858, p. 868. For experiments in crossing Cheviot

sheep with Leicesters, see Youatt, p. 325.

⁸⁷ Youatt on Sheep, note, p. 491.

⁸⁸ M. Malingié-Nouel Journal R. Agricult. Soc., vol. xiv. 1853, p. 214. Translated and therefore approved by a great authority, Mr. Pusey.