Although luxury animal fibres, excluding silk, represent far less than 0.1% of global fibre production, they play a very significant role in the luxury, high value-added end of the market, notably the apparel market, being renowned for their special and mostly unique features, such as comfort and softness. This chapter covers the production, properties, processing and end-uses of the various luxury animal fibres, with the exclusion of silk, with the main focus on the down (undercoat) fibres of those animals with two fibre coats.