

Making Hay While the Sun Shines? Climate Adaptation and the French Demographic Transition: 1851-1911

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This paper focuses on France from 1851 to 1911. In this paper I provide a model to understand the relationship between climate change and fertility. As temperatures rise, damages to land-intensive pasture are greater than damages to labour-intensive tillage. As a result, demand for labour in agriculture rises along with agricultural wages. Because human capital is generally lower in the agricultural sector than in manufacturing, the returns from human capital accumulation are also lowered. As a result, parents choose to have a higher number of lower educated children - in line with the so-called quantity-quality trade-off (Becker & Lewis, 1973). I follow this model to assess the impact of climate shifts on fertility decisions in 19th century France.

In order to test this model, I use data from France's départements, administrative districts that were drawn after the French Revolution. These départements differ greatly in their climates and geography. France consists of a number of climate zones with distinct characteristics according to the Koppen-Geiger classifications (Peel, Fin-

