

## Abstract

In this thesis I investigate the empirical evidence on the relationship between temperature and suicide rates. The previous survey on the relationship suggested that a 1°C increase in temperature is associated with a 1% increase in suicide risk. An estimate of this magnitude would play a significant role in the computation of the social cost of carbon, a concept used to set climate-related regulations by policymakers around the world. I challenge this conclusion using novel, state-of-the-art meta-analysis methods. By expanding the dataset and correcting for publication bias I show that the effect of temperature on suicide rates is three times less than previously suggested, deeming the relationship economically insignificant. Moreover, I did not find any robust evidence for a specific study design that would systematically influence the magnitude of the estimated effect quantifying this relationship.

**Keywords** temperature, weather, climate, suicide, suicidality  
**Title** Effect of Temperature on Suicide - Meta Analysis