

Disaster relief donations track number of people killed, not number of survivors

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People pay more attention to the number of people killed in a natural disaster than to the number of survivors when deciding how much money to donate to disaster relief efforts, according to new research published in *Psychological Science*, a journal of the Association for Psychological Science. The donation bias can be reversed, however, with a simple change in terminology.

"While fatalities have a severe impact on the afflicted community or country, disaster aid should be allocated to people affected by the disaster – those who are injured, homeless, or hungry," says lead researcher Ioannis Evangelidis of Rotterdam School of Management, Erasmus University (RSM) in the Netherlands. "Our research shows that donors tend not to consider who really receives the aid."

This [discrepancy](#) leads to a "humanitarian disaster," say Evangelidis and colleague Bram Van den Bergh, where money is given disproportionately toward the natural disasters with the most deaths, instead of the ones with the most people in desperate need of help.

The researchers began by examining humanitarian relief data for natural disasters occurring between 2000 and 2010. As they expected, they found that the number of fatalities predicted the probability of donation, as well as the amount donated, by private donors in various disasters. Their model estimated that about \$9,300 was donated per person killed in a given disaster. The number of people affected in the disasters, on the other hand, appeared to have no influence on the amount donated to

relief efforts.

Evangelidis and Van den Bergh believe that donors are more likely to pay attention to a [death toll](#) when deciding how much to give because the term "affected" is ambiguous. In many cases, though, fatalities don't correlate with the number of actual people in need.

To find a way to combat this donation bias, the researchers brought participants into the laboratory and presented them with several scenarios, involving various types of disasters and different numbers of people killed and affected.

Overall, participants allocated more money when a disaster resulted in a high death toll – even when the number of people affected was low – mirroring the data from the real [natural disasters](#).

The bias was reversed, however, when participants had to compare two earthquakes – one that killed 4,500 and affected 7,500 versus one that claimed 7,500 and affected 4,500 – before allocating funds.

The act of comparing the two disasters seems to have forced the participants to think critically about which group actually needed the aid more. Notably, the effect carried over when the participants were asked to allocate funds for a third disaster

But the easiest, and most realistic, way to reduce the donation [bias](#) may involve a simple change in terminology. When the researchers swapped the term "affected" with the much less ambiguous term "homeless," participants believed that money should be allocated according to the number of homeless people following a disaster.

"Above all, attention should be diverted from the number of fatalities to the number of survivors in need," Evangelidis and Van den Bergh

conclude. "We are optimistic that these insights will enhance aid to victims of future [disasters](#)."

More information: pss.sagepub.com/content/early/.../97613490748.abstract

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