

The Last Straw: The Effect of Guilt on Pro-Environmental Behavior SOARS 2021

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Introduction

- Focusing on reducing single-use plastic straws has been argued as being ineffective at eliminating plastic pollution and may distract from more important issues
- Environmental spillover
- Performing an initial pro-environmental behavior (PEB) may lead to:
- Increased performance of additional PEBs (positive spillover) or,
- Decreased performance of additional PEBs (negative spillover)
- Guilt and PEB spillover

Guilt vs. Control Message	PEB1	Eco-Guit	PEB2

- This study aims to investigate guiltcentered spillover effects to additional PEBs by conducting the first longitudinal study focusing on the reduction of plastic straw use
- H1: Participants in the guilt condition will display higher levels of straw use change compared to the control condition
- **H2**: Changes in straw use will positively spill over to changes in policy support and PEB performance
- H3: Participants in the guilt condition will have lower levels of policy support change and PEB performance change (compared to control) because of negative spillover
- H4: Spillover effects will be mediated by identity (positively, H4a), concern (positively, H4b), and guilt (negatively, H4b)

Met	hod			
<u># of participan</u>	ts from MTurk			
T1-T2 : 234 participants	T2-T3 : 184 participants			
Mate = 62% Female = 34% Democrat = 50% Republican = 24%				
eo Condition	Control Condi			

ton

Track your single

use plastic straw

use for one week

Guilt, identity, and concern measures

Reduce and track your single-use plastic straw use for one week

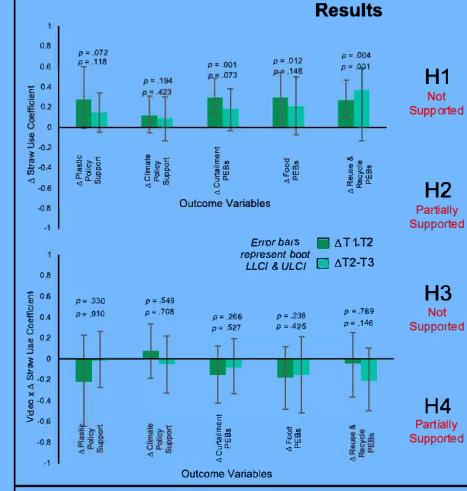
Vid

Time 2 (one week later)

Recorded singleuse plastic straw use from the past week and answered same measures as Time 1

Time 3 (3 months later when no behavior change request was in place)

Responded to same measures in Time 2



Video condition positively affected change in straw use, but it was minimal and nonsignificant b = .324 [-.151, .803], p = .192

A significant positive relationship between straw use change and PEB change was found for all PEBs except plastic policy support and climate policy support

No significant interaction effects between video condition and straw use change on other PEB change

Significant indirect positive effects for climate policy support (b = .019), reuse and recycle PEBs (b = .019), and food PEBs (b = .026) all mediated by environmental identity

Discussion

- Additional research on guilt interventions in PEB change is needed
- By Time 3, several spillover effects had diminished or been eliminated
- Environmental identity plays a more important role than guilt in PEB spillover
- · No evidence that relatively ineffective PEBs undermine broader, more important PEBs

For more information, see Truelove, H. B. & Nugent, M. R. Straw wars: Pro-environmental behavior following a guilt appeal. *Journal of Environmental Psychology*, 72, 1-10. https://doi.org/10.1016/j.jenvp.2020.101521

