



# USB Ports Dramatically Increase Adoption of Thermoelectric Generator-Enabled Cookstoves

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# Thanks and Gratitude to These Fine Folks

Their support and funding make this work possible





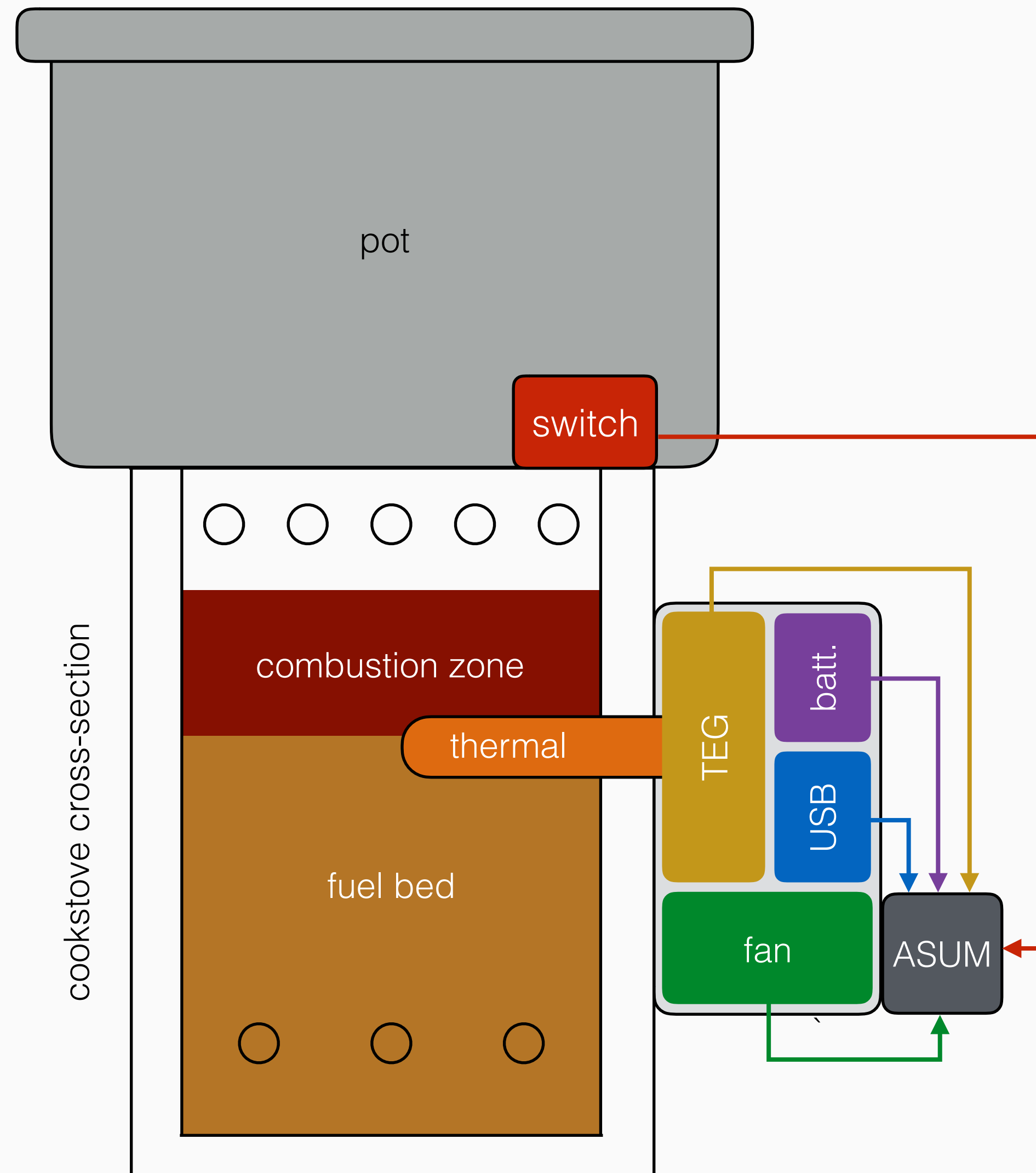
# Heat ≠ Cooking

There are multiple modes of adoption of these kinds of cookstoves

Traditional Cookstoves	TEG Cookstoves
cooking	cooking
	cooking & charging
	charging only

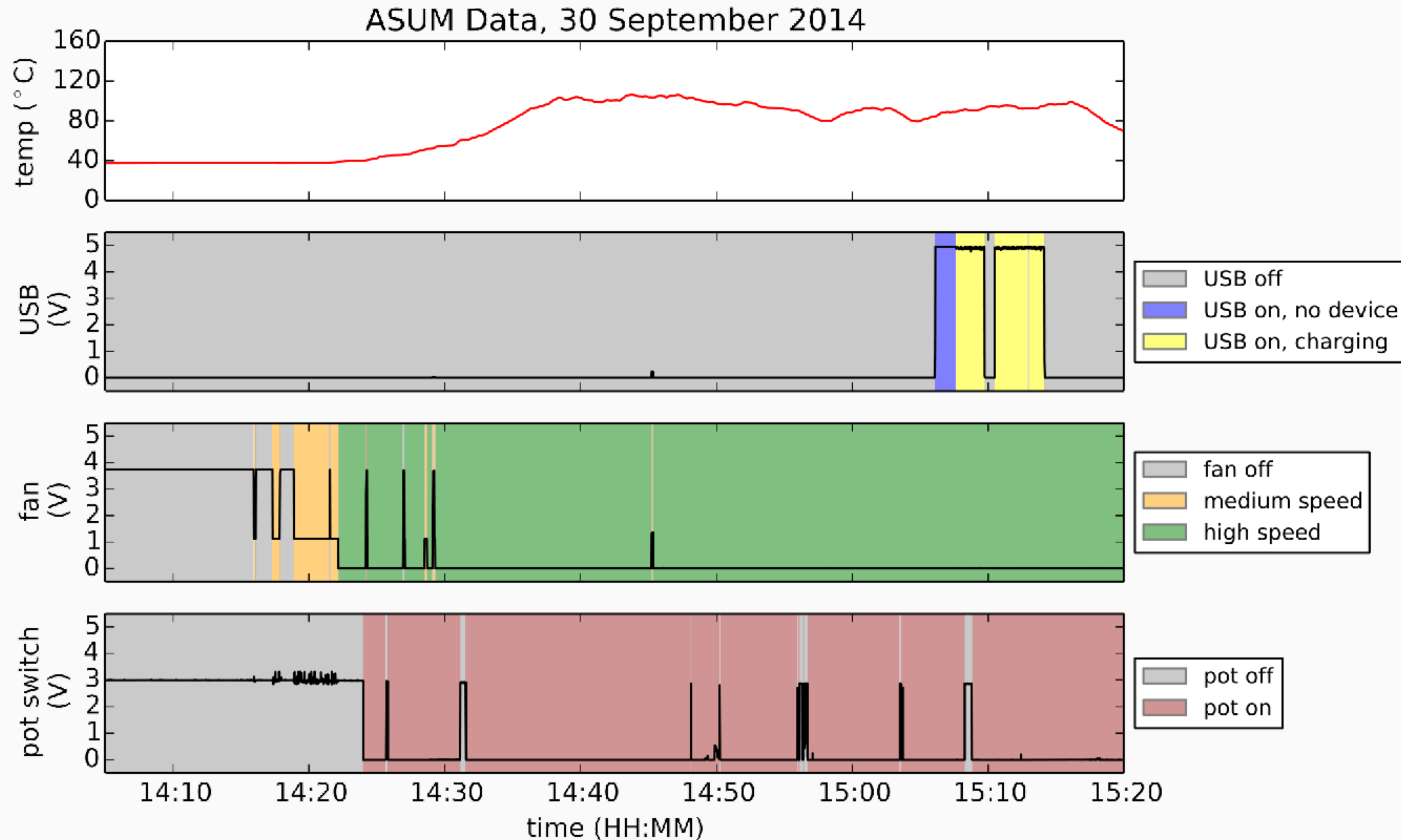
# Design of The ASUM

ASUM is a multi-channel data logger



# Fusion of ASUM data streams provides behavior insights

Simple algorithms were used to determine “cooking only” behavior



Charging-only behavior defined as:

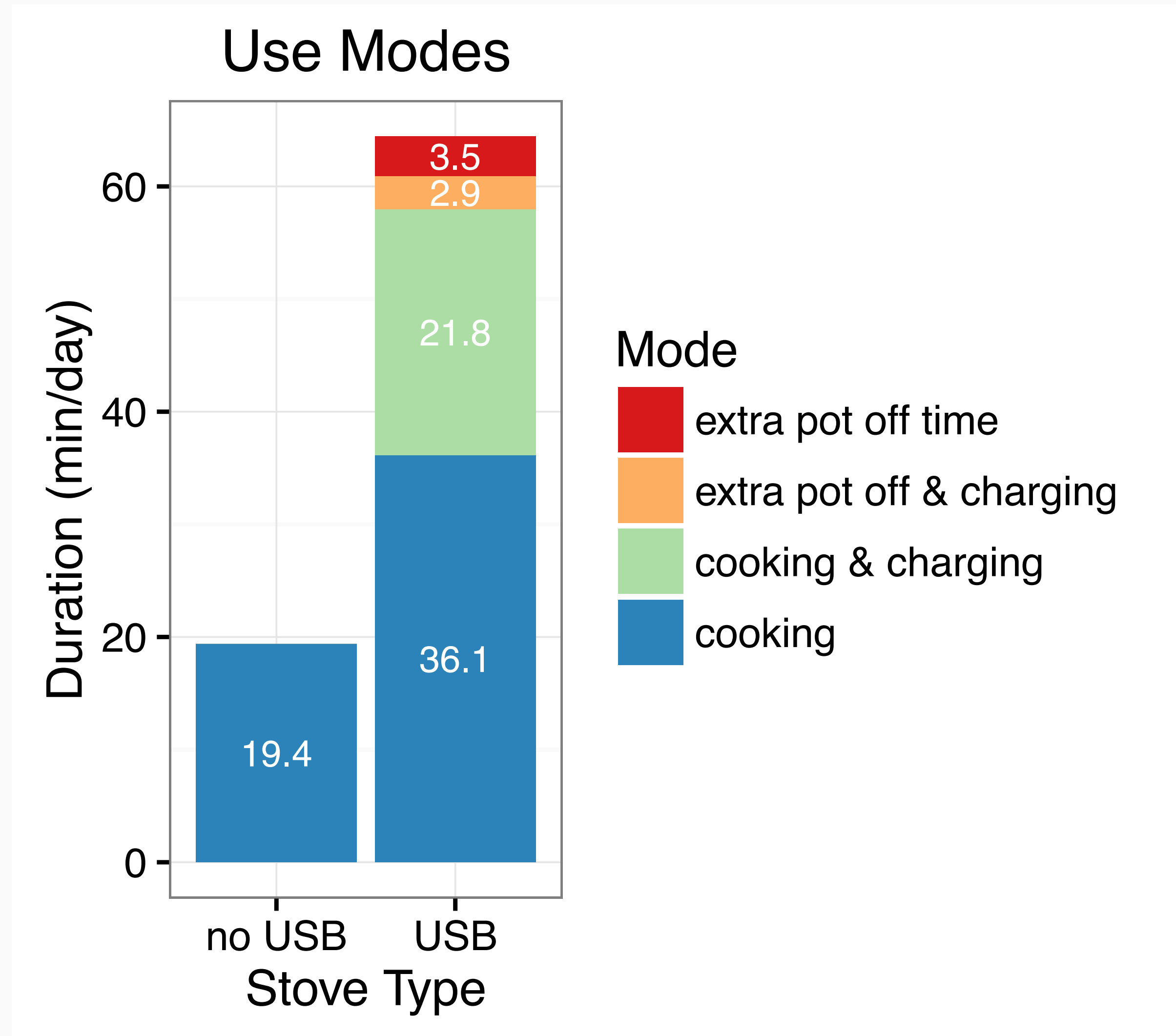
`fire == true`  
&  
`pot == off`  
&  
`USB == charging`





# USB dramatically increases adoption

Adoption mode increases are in mostly in the desired “cooking” modes



Wilson, D. L., Monga, M., Saksena, A., Kumar, A., & Gadgil, A. J. (2018). Effects of USB port access on advanced cookstove adoption. *Development Engineering*, 3, 209–217. <http://doi.org/10.1016/j.deveng.2018.08.001>

