

Supplementary Material for

Attribution of Production-Stage Methane Emissions
to Assess Spatial Variability in the Climate Intensity
of US Natural Gas Consumption

Diana Burns, Emily Grubert
correspondence to: gruberte@gatech.edu

This PDF file includes:

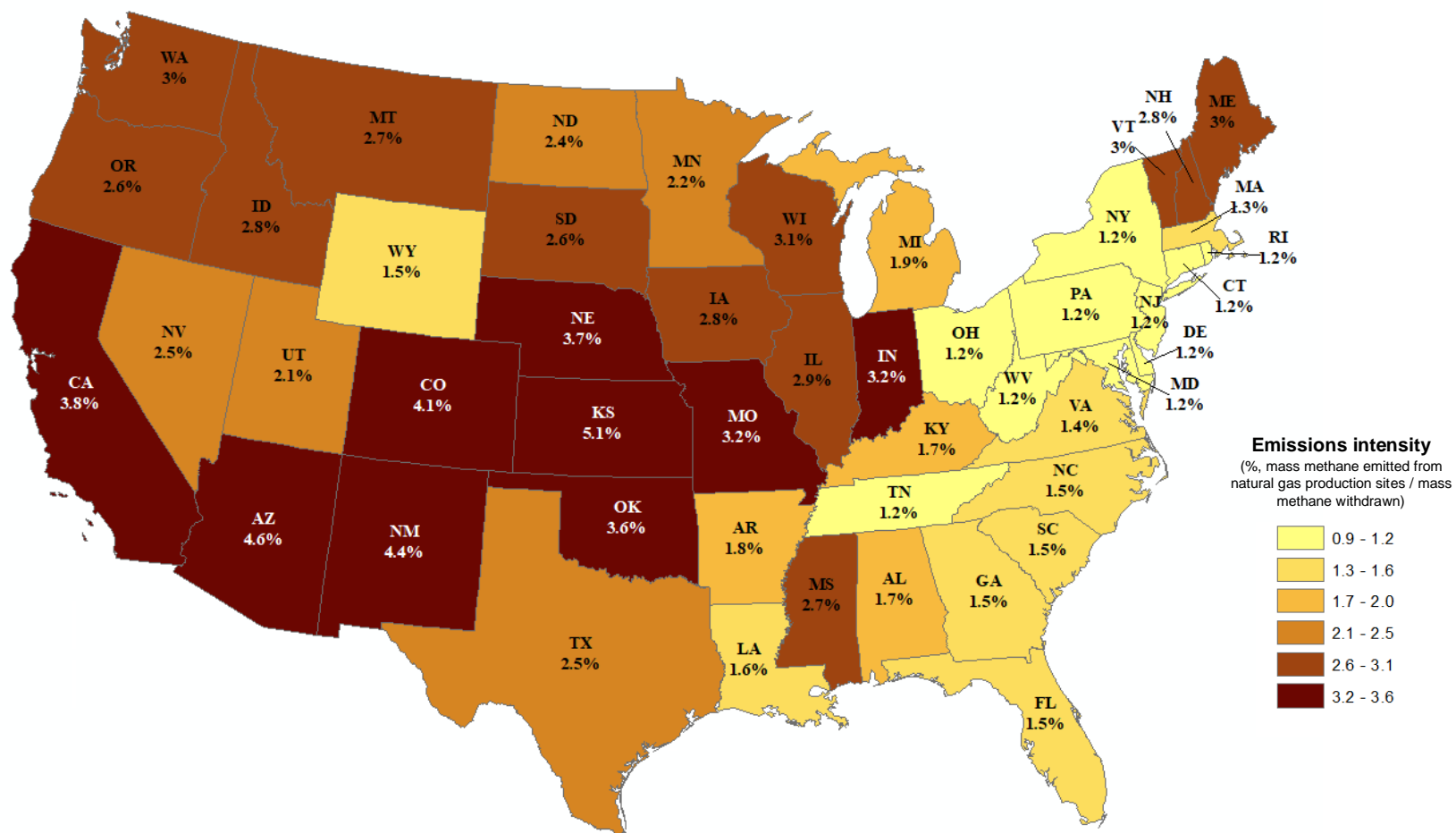
Figures S1, S2

Other supplementary information for this manuscript includes the following:

Data File S1 (Excel Workbook)

Figure S1. Sensitivity of estimated consumption-normalized production-stage methane emissions for natural gas consumed in each state to Omara *et al* (2018) low and high estimates for basin-level methane emissions (Table S9)

a) Emissions rate for natural gas consumed in the US imported from Canada = 3%; US basin emissions rates = upper bound rate from Omara *et al* (2018), Table S9



b) Emissions rate for natural gas consumed in the US imported from Canada = 3%; US basin emissions rates = lower bound rate from Omara *et al* (2018), Table S9

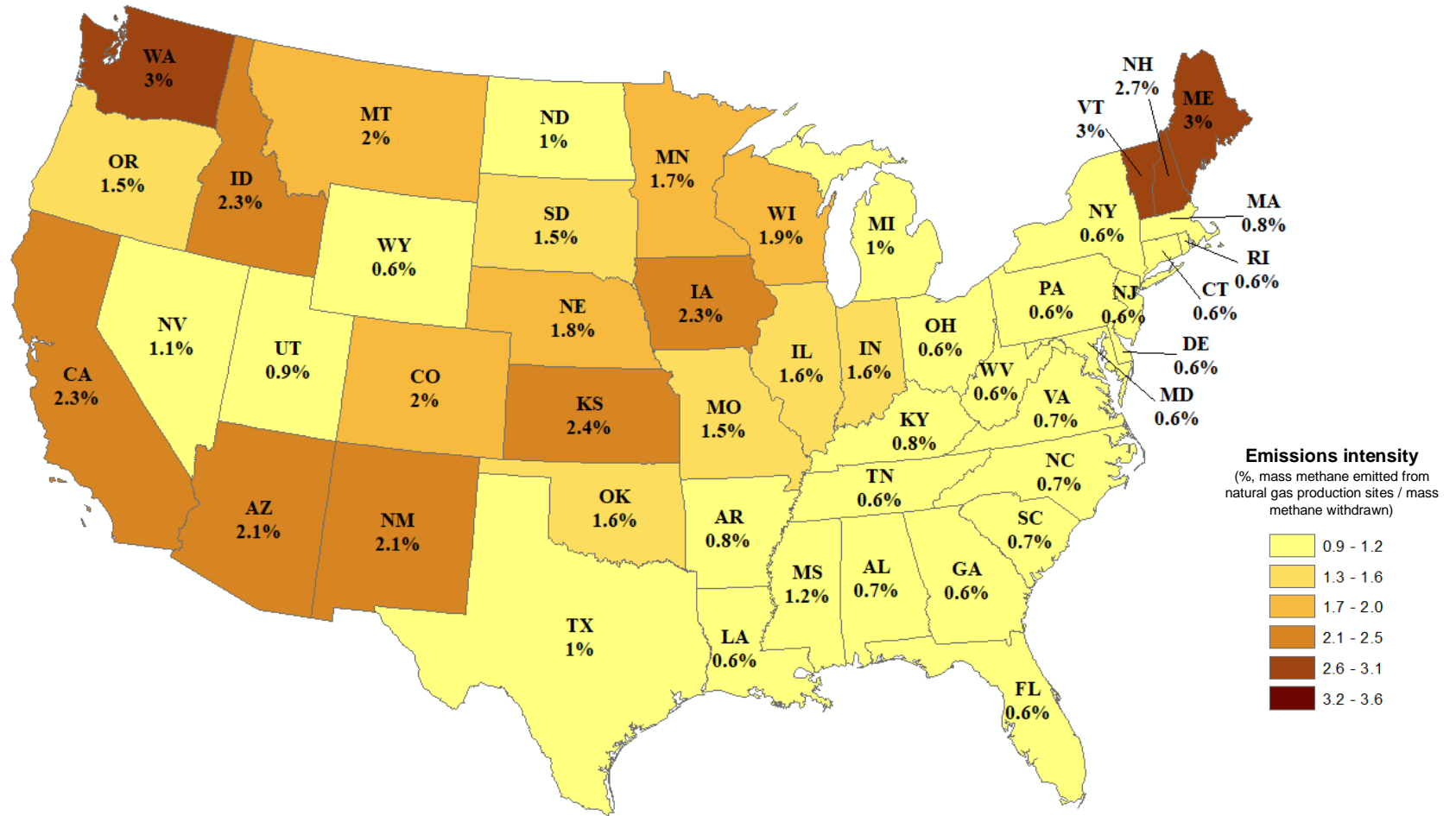
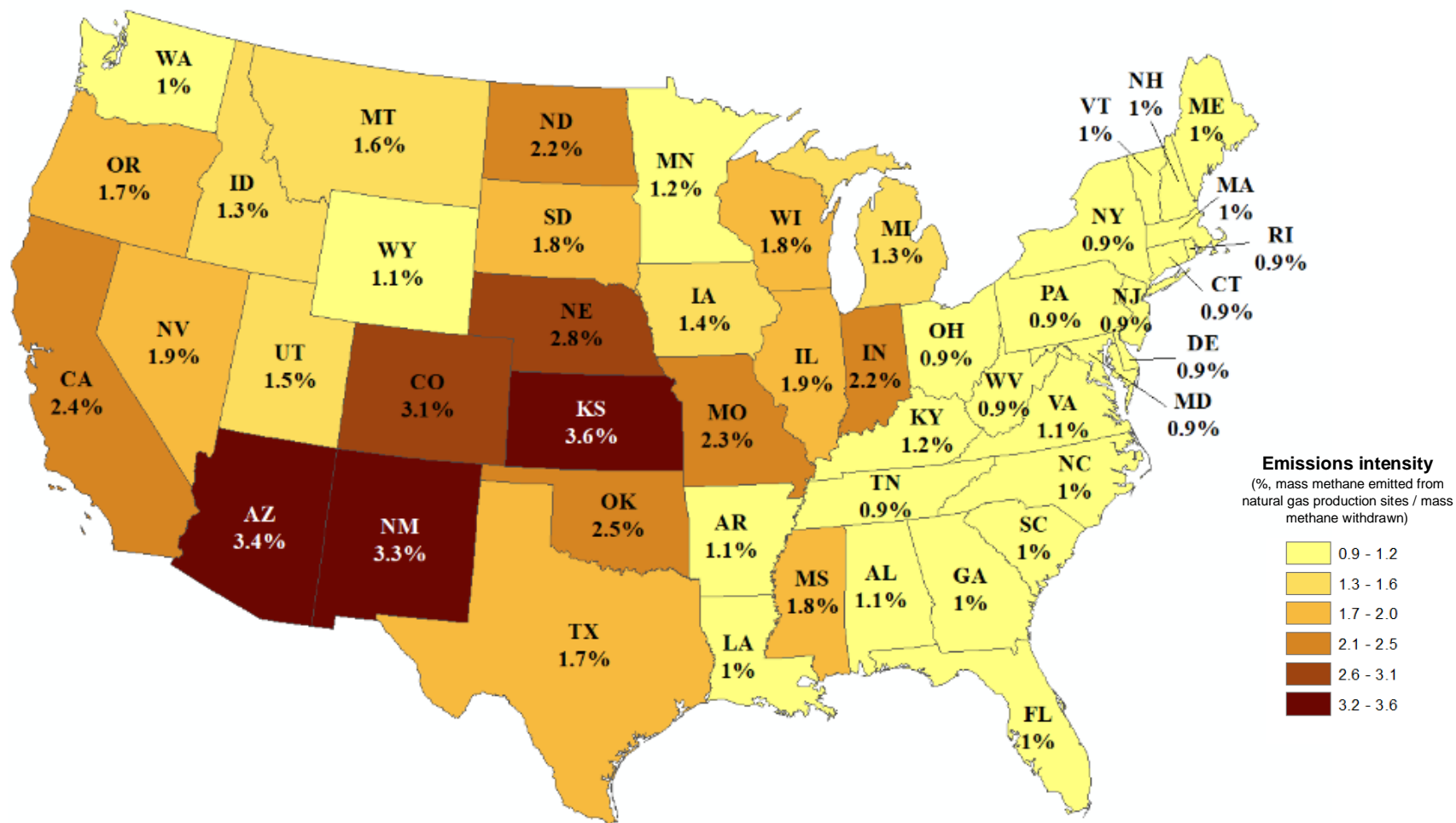
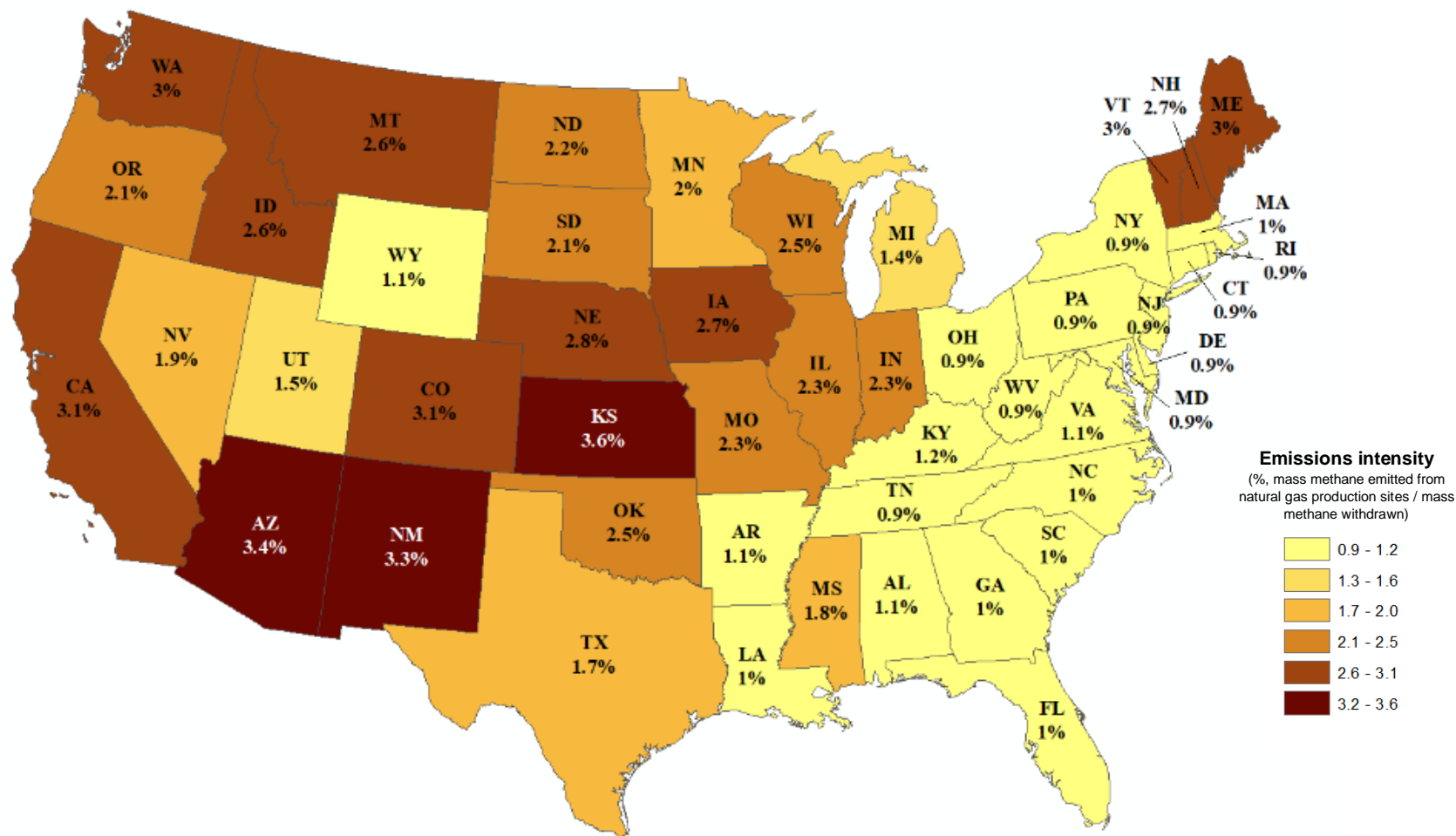


Figure S2. Sensitivity of estimated consumption-normalized production-stage methane emissions for natural gas consumed in each state to emissions rate for natural gas consumed in the US imported from Canada

a) Emissions rate for natural gas consumed in the US imported from Canada = 1%; US basin emissions rates = mean rate from Omara *et al* (2018), Table S9



b) Emissions rate for natural gas consumed in the US imported from Canada = 3%; US basin emissions rates = mean rate from Omara *et al* (2018), Table S9



c) Emissions rate for natural gas consumed in the US imported from Canada = 4.5%; US basin emissions rates = mean rate from Omara *et al* (2018), Table S9

