



166 / 602



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From: [Peter Frumhoff](#)
To: [Phil Mote](#)
Subject: RE: 1 PM EDT/10 AM PDT: Panel Prep: Attributing Impacts to Climate Change and Carbon Producers
Date: Wednesday, April 20, 2016 7:24:56 AM

Just looking at this now.

Looks good.

One thing I've found useful to illustrate are US examples where we are beginning to connect attribution research to specific characterizations of costs.

In the case of the CA drought, it's tricky (as you know better than I) but I've made in previous talk to AG staff the following point:

Climate change has measurably worsened the ongoing California drought. While scientists largely agree that natural weather variations have caused a lack of rain, rising temperatures are making things worse by driving moisture from plants and soil into the air. One study estimates that increased temperatures have driven up water demands by as much as twenty-five percent (Williams et al. 2015. "Contribution of anthropogenic warming to California drought during 2012–2014." [Geophysical Research Letters](#)). In 2015 alone, the drought imposed an estimated [\\$2.7 billion in costs to the California economy](#).

If something to this effect works for you, I am happy to share a couple of slides that succinctly/visually make this point.

Thoughts?

Peter

From: Phil Mote [mailto:pmote@coas.oregonstate.edu]
Sent: Friday, April 15, 2016 1:59 PM
To: Peter Frumhoff; Erin Burrows; Ben Strauss; Jim McCarthyHarvard; cmuffett@ciel.org; Shaun Goho
Subject: Re: 1 PM EDT/10 AM PDT: Panel Prep: Attributing Impacts to Climate Change and Carbon