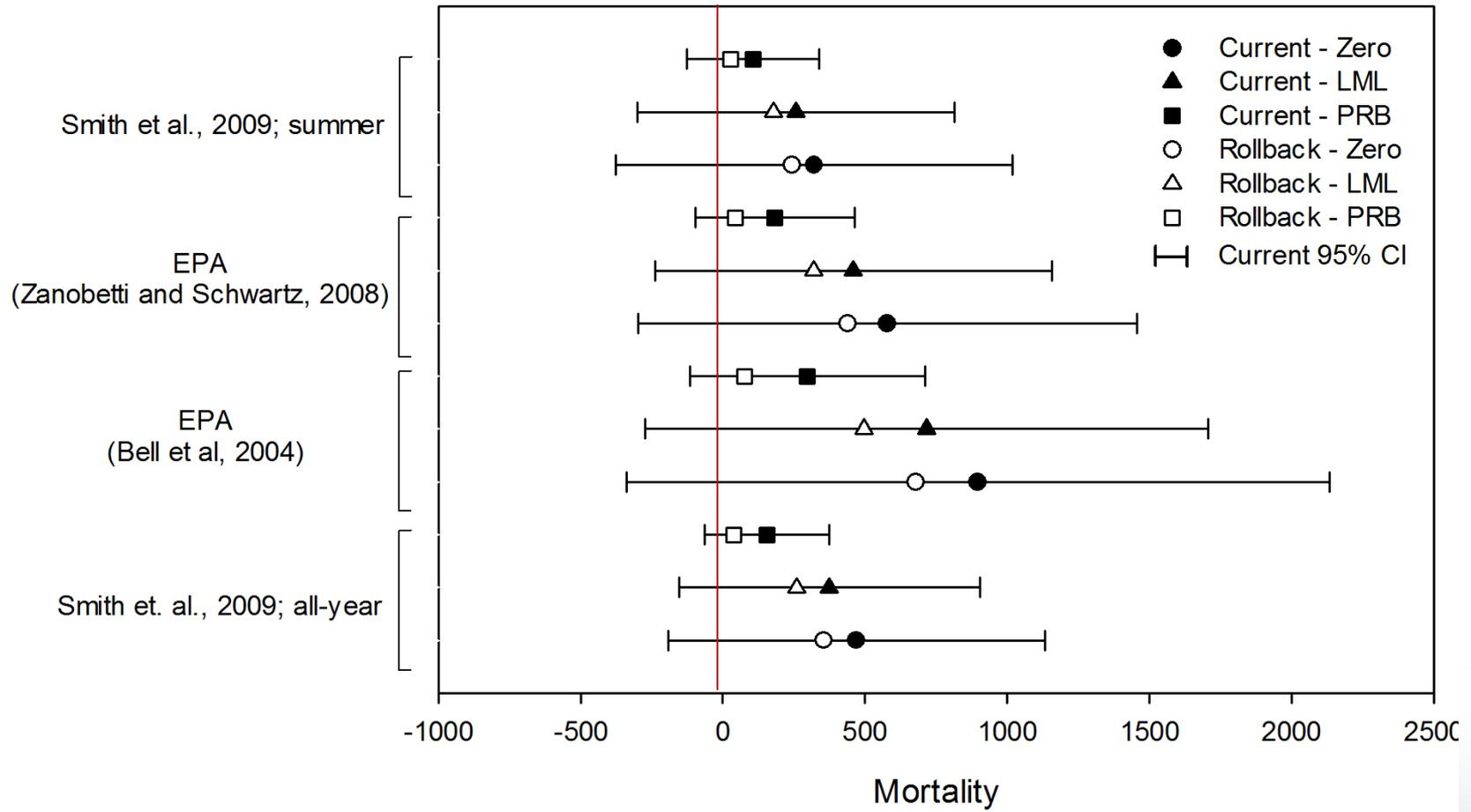
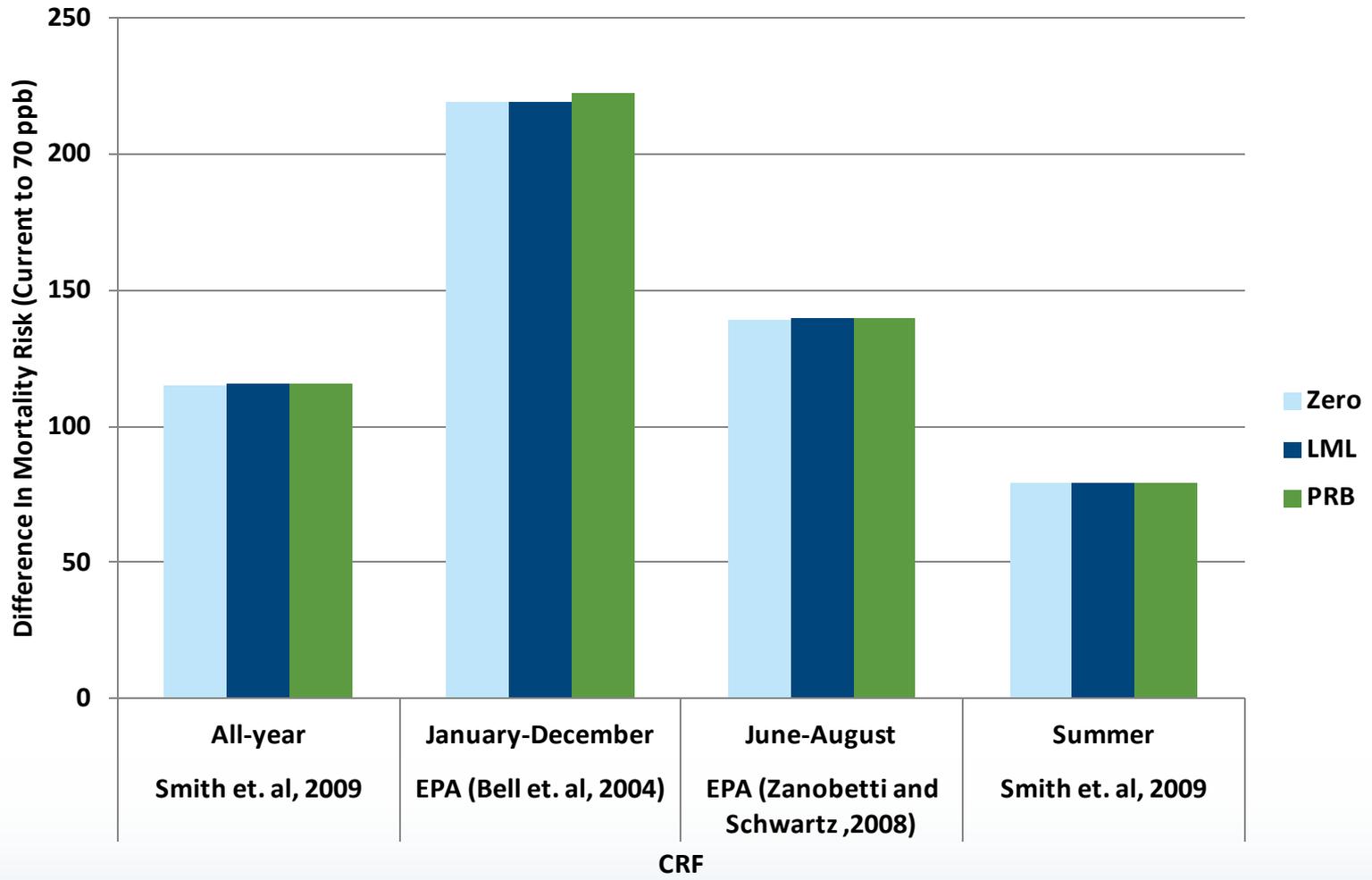


BenMAP Analyses



Preliminary Data: Do not cite

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On Behalf of the American Petroleum Institute

Clarifying comments

September 12, 2012

I want to follow-up on my comments regarding the general BenMAP approach and confidence intervals (CIs), I specifically was referring to the importance of presenting CIs for the deltas, which were not in the first draft.

Also, I want to show two figures. In the first figure I present BenMAP analyses showing mortality estimates down to zero ozone, lowest measured limits (LML), or policy relevant background (PRB). I think what is important here is to note that at least for Los Angeles, the CIs are large, so whether you consider zero, LML, or PRB, these results indicate a zero risk cannot be ruled out.

Another important point is that in taking this approach of going down to zero or LML, this could be interpreted as saying that a zero or LML should be considered as alternative levels of ozone, but clearly there is a lot of uncertainty around these estimates, and not all of that uncertainty is captured in these CIs.

It is more appropriate to focus on presenting the differences in going from current conditions to the current standard or alternative levels (the deltas). In my second figure you see that considering the change in mortality from going to zero, LML or PRB there is little difference in the deltas. There are differences depending on the ozone season and the CRF, but without the confidence intervals you can't determine if these differences are statistically significant.