Message

From: David Fischer [david.fischer@bayer.com]
Sent: 3/26/2014 12:08:29 PM
To: Moriarty, Thomas [Moriarty.Thomas@epa.gov]
CC: jen.lynch@setac.org
Subject: RE: Proposed Addition to Appendix 2
Attachments: Fig - redrawn - Fischer idea.pptx

Tom,

While I have no objection to inserting these sections as you proposed if it reflects the opinion of the workgroup, my personal opinion is the argument that loss of an individual egg or larvae is more significant to the long-term survival of colony than is the loss of an adult bee is complete nonsense. Queen bees can easily compensate for loss of early brood stages by laying more eggs. They modulate their laying rate all the time as conditions in the colony warrant. The colony has much less invested in an egg or a larvae than it does in newly emerged adult bee. And if you lose a significant number of the adult bees, you secondarily lose the brood because they are not cared for sufficiently. In fact, this is the definition of CCD!

I do think the argument is an interesting one ecologically. However, I think the "net present value", to use a business term, starts off as very low at the egg stage then gradually increases to a maximum during the early adult stage then decreases as it ages and becomes low again during the last few days of its normal life span. So I would redraw the figure as shown in the attachment - see my solid blue line I've added.

I think we are way past the point of discussing and revising the ideas of this chapter. If Zach feels strongly that this section was discussed during the workshop and the group agreed to it, then I have no problem putting it in to the report as you suggest. However, I don't think it well thought out. And I also don't see anyone questioning the need to do larval tox tests, so I'm not sure why there is a need to convince anyone they are important.

Dave

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-----Original Message-----
From: Moriarty, Thomas [mailto:Moriarty.Thomas@epa.gov]
Sent: Tuesday, March 25, 2014 10:14 PM
To: David Fischer
Cc: jen.lynch@setac.org
Subject: Proposed Addition to Appendix 2

Dave,

I've looked at what Zachery sent, and while I may be just appeasing him ... I think his write-up make a point or two.
It may be possible to insert something at the beginning of Appendix 2, that helps kick it off.

I drafted two paragraphs based upon Zachery's write-up.
I would propose it is inserted right up front.

The change to Appendix 2 would be:
(i) to modify the table of contents at the top of Appendix 2 to add a new section: "A2.0 Importance of Larval Testing"
(ii) to insert the two paragraphs directly in front of what is now section "A2.1 Proposed Elements for a Larval Study" and entitle the new section "A2.0 Importance of Larval Testing"

I have attached the proposed paragraphs, and the readers proof of Appendix 2,
... tell me what you think, and we'll finish this up.

As for Zachery's proposed research topic .... I really couldn't make too much sense of it, and so I didn't try and extract a "further research" topic from what he wrote.

I've attached the propose write-up, the readers proof of Appendix 2, ... as well as Zachery's write-up

Talk w. you in a bit,

tm

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