

[REDACTED]

From: Fisher, Paul
Sent: 13 January 2017 14:55
To: [REDACTED] bayer.com
Subject: Pan European Study - Communications Policy

Both,

Please find attached the updated communications policy that we need to agree.

Please can you reply with your approval.

Regards



© Commonwealth of Australia
Produced by: [REDACTED] P...

[REDACTED]

Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



[REDACTED]

From: [REDACTED] <[REDACTED]syngenta.com>
Sent: 17 January 2017 09:04
To: [REDACTED]bayer.com
Subject: Re: Pan European Study - Communications Policy

Hi [REDACTED]
This fine from a Syngenta perspective.
Regards
[REDACTED]

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: [REDACTED]
Date: 13/01/2017 14:55 (GMT+00:00)
To: [REDACTED] <[REDACTED]syngenta.com>, [REDACTED]bayer.com
Subject: Pan European Study - Communications Policy

Both,

Please find attached the updated communications policy that we need to agree.

Please can you reply with your approval.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk
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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 24 January 2017 08:14
To: Fisher, Paul
Subject: RE: Pan European Study - Communications Policy

Morning Paul,

Trying to get you an answer today

Best Regards

[REDACTED]

[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: [REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

From: [REDACTED]
Sent: 23 January 2017 18:14
To: [REDACTED]
Cc: Hails, Rosemary S.
Subject: Fwd: Pan European Study - Communications Policy

[REDACTED]

Sorry to bother you again, but please can you confirm receipt of the communications policy and confirm that Bayer are in agreement with the policy.

Could reply this week I would be grateful.

From CEH's point of view we wish to communicate the scientific results as openly and as transparent a manner as is possible.

Regards

Sent from a mobile device, please excuse brevity and typos.

[REDACTED]

Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

Begin forwarded message:

From: [REDACTED]
Date: 19 January 2017 at 16:10:46 GMT
To: "[REDACTED] bayer.com" <[REDACTED] bayer.com>
Subject: FW: Pan European Study - Communications Policy

Afternoon [REDACTED]

Could you confirm your agreement with the communications plan sent on 13/1/17?
Syngenta have replied to say they are in agreement

Rgds

[REDACTED]
Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]
www.ceh.ac.uk

Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [[mailto:\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)]
Sent: 17 January 2017 09:04
To: [REDACTED] [bayer.com](mailto:[REDACTED]@bayer.com)
Subject: Re: Pan European Study - Communications Policy

Hi [REDACTED]
This fine from a Syngenta perspective.
Regards
[REDACTED]

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: [REDACTED]
Date: 13/01/2017 14:55 (GMT+00:00)
To: [REDACTED] <[REDACTED]@syngenta.com>, [REDACTED]@bayer.com
Subject: Pan European Study - Communications Policy

Both,

Please find attached the updated communications policy that we need to agree.

Please can you reply with your approval.

Regards

[REDACTED]
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Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 27 January 2017 13:26
To: [REDACTED] Fisher, Paul
Cc: [REDACTED]
Subject: RE: Pan European Study - Communications Policy

Afternoon [REDACTED]

I am happy to confirm that we agree to the new text

Best Regards

[REDACTED]

[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: +[REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 17 January 2017 09:04
To: [REDACTED]
Subject: Re: Pan European Study - Communications Policy

Hi [REDACTED]
This fine from a Syngenta perspective.
Regards
[REDACTED]

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: [REDACTED]@ceh.ac.uk>
Date: 13/01/2017 14:55 (GMT+00:00)
To: [REDACTED] <[REDACTED]@syngenta.com>, [REDACTED]@bayer.com
Subject: Pan European Study - Communications Policy

Both,

Please find attached the updated communications policy that we need to agree.

Please can you reply with your approval.

Regards

[REDACTED]
Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

[REDACTED] [ac.uk](http://www.ceh.ac.uk)
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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 16 December 2016 15:29
To: [REDACTED]
Cc: Hails, Rosemary S.; [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Thanks Paul yes 3.30 pm on 6 Jan works fine. Please can you send a meeting request so it goes into our diaries direct and please also invite [REDACTED] from Syngenta.

Regards

[REDACTED]

From: Fisher, Paul [mailto:pfisher@ceh.ac.uk]
Sent: 16 December 2016 15:04
To: [REDACTED] <[REDACTED]@syngenta.com>
Cc: Hails, Rosemary S. <rha@ceh.ac.uk>
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

[REDACTED]

See my responses to your email in red below.

[REDACTED]

Centre for Ecology & Hydrology
Macleans Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

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NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 16 December 2016 14:20
To: [REDACTED]@ceh.ac.uk; [REDACTED]@bayer.com

Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]

Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [REDACTED]

Many thanks for this. It will be useful to have an over-arching approach and agreement in place. I have a couple of questions for clarification:-

- Is it your intention that every point in this proposed policy apply to all parties? **For the benefit of the project, the policy should be 'agreed' so that communication is transparent and independent and the results are both made publically available and visible. It would be the ideal for both parties to adhere to the policy.**
- I have just noticed in Section 5.3 of the Cooperation Agreement that a Policy was required to be drafted by end of September 2014 but I don't recall we ever actually did this, did we? **You are correct, you didn't receive anything in September 2014.**

Could we request a call between all parties to finalise this policy in 1st week of January? **I think this would be very worthwhile to finalise the policy. Would a telcon at 3.30pm, Friday 6th Jan that fit with you?**

Regards and look forward to talking

[REDACTED]

From: [REDACTED] <[\[REDACTED\]@ceh.ac.uk](mailto:[REDACTED]@ceh.ac.uk)>

Sent: 16 December 2016 11:00

To: [REDACTED] <[\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)>; [REDACTED] <[\[REDACTED\]@bayer.com](mailto:[REDACTED]@bayer.com)>

Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]

Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [REDACTED] & [REDACTED]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach.

If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

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[REDACTED]

From: [REDACTED]
Sent: 16 December 2016 15:04
To: [REDACTED]
Cc: Rosemary S. Hails (rha@ceh.ac.uk)
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

[REDACTED]

See my responses to your email in red below.

[REDACTED]

Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 16 December 2016 14:20
To: [REDACTED]@ceh.ac.uk; [REDACTED]@bayer.com
Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]
<[REDACTED]>
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

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Regards and look forward to talking

■■■■■

From: ■■■■■ [[ceh.ac.uk](mailto:■■■■■@ceh.ac.uk)]

Sent: 16 December 2016 11:00

To: ■■■■■ <■■■■■@syngenta.com>; ■■■■■ [bayer.com](mailto:■■■■■@bayer.com)

Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; ■■■■■

Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear ■■■■ & ■■■■

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Regards

■■■■■

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Oxfordshire, OX10 8BB
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■■■■■

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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 16 December 2016 11:37
To: [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Thanks [REDACTED] If I don't speak to you beforehand, have a good Christmas

Best Regards

[REDACTED]

Dr [REDACTED]
[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: [REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

From: [REDACTED]@ceh.ac.uk]
Sent: 16 December 2016 11:35
To: [REDACTED]
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

[REDACTED]

I very much doubt it as we've not yet heard back re approval/rejection of the manuscript from the journal.

[REDACTED]

Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



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Ecology & Hydrology**

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From: [REDACTED] [[mailto:\[REDACTED\]@bayer.com](mailto:[REDACTED]@bayer.com)]
Sent: 16 December 2016 11:26
To: Fisher, Paul <pfisher@ceh.ac.uk>; [REDACTED] <[REDACTED]@syngenta.com>
Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]
[REDACTED] <[REDACTED]@bayer.com>
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [REDACTED]

Thanks for this. I assume that means that you are NOT expecting publication before that date, ie the 11th January?

Best Regards

[REDACTED]

Dr [REDACTED]
[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: [REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

From: [REDACTED]@ceh.ac.uk]
Sent: 16 December 2016 11:00
To: [REDACTED]
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [REDACTED]
Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [REDACTED] & [REDACTED]

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Regards

[REDACTED]

[REDACTED]
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Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
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United Kingdom

[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 06 January 2017 16:01
To: [REDACTED]
Cc: [REDACTED]@bayer.com'
[REDACTED]@bayer.com)
Subject: Additional point for comms policy - mirror communication approach

[REDACTED]

Further to our call – here is an additional bullet point as discussed.

- All parties agree to a 'mirror communication' process giving each other sight - ahead of the publication - of releases, statements and positions relating to the study. Additionally, each party will inform all of the other parties of its communication engagement plans and work to facilitate equivalent access of the other parties to journalists with the aim of ensuring informed interactions and balance in any subsequent coverage.

Regards,

[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 11 January 2017 09:23
To: [REDACTED]
Cc: [REDACTED]
Subject: Tomorrow's meeting on communication policy
Attachments: COM policy - Bayer edit - January 2017.docx

Follow Up Flag: Flag for follow up
Flag Status: Flagged

Good Morning [REDACTED]

Very much looking forward to tomorrow's meeting. I have been asked by my colleagues to share the enclosed Bayer proposal. We think that Luke's proposal is a good one but would also like to re-open the issue of access to data. I am sure you can appreciate that my colleagues remain perplexed that as co-owners of the raw data, they continue to be denied access to the data making our own analysis prior to publication essentially impossible.

To discuss...

Best Regards

[REDACTED]

Dr [REDACTED]
[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: [REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 05 December 2016 10:34
To: [REDACTED]
Cc: [REDACTED]
Subject: CEH comms briefing - request for date

Hi [REDACTED]

Hope all is well.

I am following up from our recent meeting at which you committed to a meeting in early January to outline to sponsors your communications plans for the field work. Could we get a date in the diary?

Thanks,

[REDACTED]

[REDACTED]
[REDACTED]
Syngenta
Jealott's Hill International Research Centre
Bracknell, Berks RG42 6EY
T. +44-(0)1344 41 49 75
M. +44-(0)7872 004 750

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 05 December 2016 16:51
To: [REDACTED]
Subject: RE: CEH comms briefing - request for date

I can do morning of the 12th.

Luke

From: [REDACTED]
Sent: 05 December 2016 15:05
To: [REDACTED] <[REDACTED]@syngenta.com>; [REDACTED]
Subject: RE: CEH comms briefing - request for date

As a starter how bout 12 or 13 January? [REDACTED] and I can make this date and hopefully

[REDACTED]
Regards
[REDACTED]

From: [REDACTED]
Sent: 05 December 2016 10:34
To: [REDACTED]@eh.ac.uk
Cc: [REDACTED] <[REDACTED]@syngenta.com>
Subject: CEH comms briefing - request for date

Hi [REDACTED]

Hope all is well.

I am following up from our recent meeting at which you committed to a meeting in early January to outline to sponsors you communications plans for the field work. Could we get a date in the diary?

Thanks,

[REDACTED]

[REDACTED]
[REDACTED]
Syngenta
Jealott's Hill International Research Centre
Bracknell, Berks RG42 6EY
T. +44-(0)1344 41 49 75
M. +44-(0)7872 004 750

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 05 December 2016 15:05
To: [REDACTED]
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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 05 December 2016 10:35
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: CEH comms briefing - request for date

Also – do you have a date already for your SMC briefing?

Thanks,

[REDACTED]

From: [REDACTED]
Sent: 05 December 2016 10:34
To: [REDACTED]@ceh.ac.uk>
Cc: [REDACTED] <[REDACTED]@syngenta.com>
Subject: CEH comms briefing - request for date

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[REDACTED]

[REDACTED]

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[REDACTED]

From: [REDACTED]
Sent: 05 December 2016 16:52
To: [REDACTED]
Subject: RE: CEH comms briefing - request for date

Morning 12th fine

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 05 December 2016 15:05
To: [REDACTED] <[REDACTED]@syngenta.com>; [REDACTED]@ceh.ac.uk>
Subject: RE: CEH comms briefing - request for date

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Thanks,

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 10 April 2017 13:23
To: [REDACTED]
Subject: Update

Hi [REDACTED]
Any more news from Science on your paper.
Regards
[REDACTED]

Sent from my Samsung Galaxy smartphone.

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 10 March 2017 16:45
To: [REDACTED]
Subject: RE: Update

Thanks [REDACTED] forgot how long these Journal reviews an take!
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 10 March 2017 16:44
To: [REDACTED] <[REDACTED]@syngenta.com>
Cc: Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]
Subject: Re: Update

[REDACTED]

It is still in the peer-review process with Science. Nothing accepted or rejected as yet.

Regards

Sent from a mobile device, please excuse brevity and typos.

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

On 10 Mar 2017, at 14:58, [REDACTED] <[REDACTED]@syngenta.com> wrote:

Hi [REDACTED]
Any more progress and update you can share with me from Science on your paper?
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 08 February 2017 10:12
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

[REDACTED]

The manuscript was submitted to Nature in December but didn't go into the peer-review process, probably on editorial grounds as Nature had published a related study in the relatively recent past.

Regards

[REDACTED]

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Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk

Press Office: <http://www.ceh.ac.uk/news/press/index.asp>

<image001.png>

From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 08 February 2017 10:07
To: [REDACTED]@ceh.ac.uk>
Subject: RE: Update

Thanks for the update [REDACTED]
Was the manuscript originally sent to Nature first or were my notes mistaken?
Regards

[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 08 February 2017 10:04
To: [REDACTED] <[REDACTED]@syngenta.com>
Cc: [REDACTED] <[REDACTED]@bayer.com>
Subject: RE: Update

[REDACTED]

The manuscript remains under peer-review with Science.

Science have not given an estimate of when peer-review will be completed nor whether will be accepted for publication.

Regards



Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom



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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>

<image001.png>

From: [redacted] [[mailto:\[redacted\]@syngenta.com](mailto:[redacted]@syngenta.com)]

Sent: 07 February 2017 16:09

To: [redacted] <[\[redacted\]@ceh.ac.uk](mailto:[redacted]@ceh.ac.uk)>

Subject: RE: Update

Hi [redacted]

I was just reading my notes from previous conversations with CEH before Xmas and I had written down that your paper had been submitted to Nature. Did I get that wrong? Any news from Science?

Regards



From: [redacted] <[\[redacted\]@ceh.ac.uk](mailto:[redacted]@ceh.ac.uk)>

Sent: 19 January 2017 16:08

To: [redacted] <[\[redacted\]@syngenta.com](mailto:[redacted]@syngenta.com)>

Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.



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United Kingdom



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<image001.png>

From: [redacted] [[mailto:\[redacted\]@syngenta.com](mailto:[redacted]@syngenta.com)]

Sent: 19 January 2017 15:37

To: [redacted]@ceh.ac.uk>

Subject: Update

Hi [redacted]

Any news from Science yet?

Regards

[redacted]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 10 March 2017 14:58
To: [REDACTED]
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Subject: RE: Update

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The manuscript was submitted to Nature in December but didn't go into the peer-review process, probably on editorial grounds as Nature had published a related study in the relatively recent past.

Regards

[REDACTED]

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United Kingdom

[REDACTED]

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From: [REDACTED] [[mailto:\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)]
Sent: 08 February 2017 10:07
To: [REDACTED]@ceh.ac.uk>
Subject: RE: Update

Thanks for the update [REDACTED]
Was the manuscript originally sent to Nature first or were my notes mistaken?
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 08 February 2017 10:04
To: [REDACTED] <[REDACTED]@syngenta.com>
Cc: [REDACTED] <[REDACTED]@bayer.com>
Subject: RE: Update

[REDACTED]

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Regards

[REDACTED]

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From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 07 February 2017 16:09
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Subject: RE: Update

Hi [REDACTED]
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Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.

[REDACTED]

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Oxfordshire, OX10 8BB
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**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 19 January 2017 15:37
To: [REDACTED]@ceh.ac.uk>
Subject: Update

Hi [REDACTED]
Any news from Science yet?
Regards
[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 08 February 2017 10:20
To: [REDACTED]
Subject: RE: Update

Thanks [REDACTED] glad to see I am not losing my mind!
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 08 February 2017 10:12
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

[REDACTED]

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Sent: 08 February 2017 10:07
To: [REDACTED]@ceh.ac.uk>
Subject: RE: Update

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[REDACTED]

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Sent: 08 February 2017 10:04
To: [REDACTED] <[REDACTED]@syngenta.com>
Cc: [REDACTED] <[REDACTED]@bayer.com>
Subject: RE: Update

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From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 07 February 2017 16:09
To: [REDACTED] [mailto:[REDACTED]@ceh.ac.uk]
Subject: RE: Update

Hi [REDACTED]
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Regards

[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.

[REDACTED]
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From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 19 January 2017 15:37
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Subject: Update

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From: [redacted] [[mailto:\[redacted\]@syngenta.com](mailto:[redacted]@syngenta.com)]
Sent: 07 February 2017 16:09

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From: [REDACTED] [mailto:[REDACTED]@syngenta.com]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 19 January 2017 16:14
To: [REDACTED]
Subject: RE: Update

Thanks [REDACTED]
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom


[REDACTED]

www.ceh.ac.uk
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [[mailto:\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)]
Sent: 19 January 2017 15:37
To: [REDACTED]@ceh.ac.uk>
Subject: Update

Hi [REDACTED]
Any news from Science yet?
Regards



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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 19 January 2017 15:37
To: [REDACTED]
Subject: Update

Hi [REDACTED]
Any news from Science yet?
Regards
[REDACTED]

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[REDACTED]

From: [REDACTED]
Sent: 10 April 2017 13:25
To: [REDACTED]
Subject: RE: Update

[REDACTED]

We've heard nothing despite chasing.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 10 April 2017 13:23
To: [REDACTED]@ceh.ac.uk>
Subject: Update

Hi [REDACTED]
Any more news from Science on your paper.
Regards
[REDACTED]

Sent from my Samsung Galaxy smartphone.

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[REDACTED]

From: [REDACTED]
Sent: 08 February 2017 10:12
To: [REDACTED]
Subject: RE: Update

[REDACTED]

The manuscript was submitted to Nature in December but didn't go into the peer-review process, probably on editorial grounds as Nature had published a related study in the relatively recent past.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

www.ceh.ac.uk
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 08 February 2017 10:07
To: [REDACTED]@ceh.ac.uk
Subject: RE: Update

Thanks for the update [REDACTED]
Was the manuscript originally sent to Nature first or were my notes mistaken?
Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk
Sent: 08 February 2017 10:04
To: [REDACTED] <[REDACTED]@syngenta.com>

Cc: [REDACTED] <[REDACTED]@bayer.com>
Subject: RE: Update

[REDACTED]

The manuscript remains under peer-review with Science.
Science have not given an estimate of when peer-review will be completed nor whether will be accepted for publication.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
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[REDACTED]

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NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [[mailto:\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)]
Sent: 07 February 2017 16:09
To: [REDACTED] <[\[REDACTED\]@h.ac.uk](mailto:[REDACTED]@h.ac.uk)>
Subject: RE: Update

Hi [REDACTED]

I was just reading my notes from previous conversations with CEH before Xmas and I had written down that your paper had been submitted to Nature. Did I get that wrong? Any news from Science?

Regards

[REDACTED]

From: [REDACTED]
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.

[REDACTED]
Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



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NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [[mailto:\[REDACTED\]@syngenta.com](mailto:[REDACTED]@syngenta.com)]

Sent: 19 January 2017 15:37

To: [REDACTED] [@ceh.ac.uk](mailto:[REDACTED]@ceh.ac.uk)>

Subject: Update

Hi [REDACTED]

Any news from Science yet?

Regards

[REDACTED]

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[REDACTED]

From: [REDACTED]
Sent: 08 February 2017 10:04
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Update

[REDACTED]

The manuscript remains under peer-review with Science.
Science have not given an estimate of when peer-review will be completed nor whether will be accepted for publication.

Regards

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 07 February 2017 16:09
To: [REDACTED]
Subject: RE: Update

Hi [REDACTED]
I was just reading my notes from previous conversations with CEH before Xmas and I had written down that your paper had been submitted to Nature. Did I get that wrong? Any news from Science?
Regards
[REDACTED]

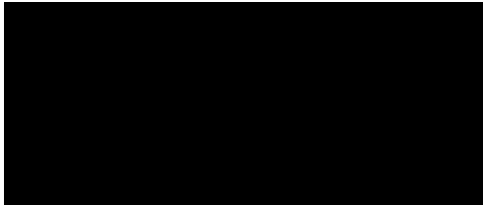
From: [REDACTED]@ceh.ac.uk]
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.



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From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 19 January 2017 15:37
To: [REDACTED]@ceh.ac.uk>
Subject: Update

Hi [REDACTED]
Any news from Science yet?
Regards



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[REDACTED]

From: [REDACTED]
Sent: 07 February 2017 16:52
To: [REDACTED]
Subject: RE: Update

[REDACTED]

I'll catch up with the PIs tomorrow and get back to you with an update.

[REDACTED]

Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 07 February 2017 16:09
To: [REDACTED]@ceh.ac.uk
Subject: RE: Update

Hi [REDACTED]

I was just reading my notes from previous conversations with CEH before Xmas and I had written down that your paper had been submitted to Nature. Did I get that wrong? Any news from Science?

Regards

[REDACTED]

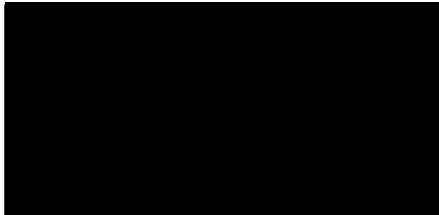
From: [REDACTED]@ceh.ac.uk
Sent: 19 January 2017 16:08
To: [REDACTED] <[REDACTED]@syngenta.com>
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.



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From: [redacted] [[mailto:\[redacted\]@syngenta.com](mailto:[redacted]@syngenta.com)]

Sent: 19 January 2017 15:37

To: [redacted] [@ceh.ac.uk](mailto:[redacted]@ceh.ac.uk)>

Subject: Update

Hi [redacted]

Any news from Science yet?

Regards



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[REDACTED]

From: [REDACTED]
Sent: 19 January 2017 16:08
To: [REDACTED]
Subject: RE: Update

Nothing as yet.

I'll drop you note when I hear.

[REDACTED]
Centre for Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [REDACTED] [mailto:[REDACTED]@syngenta.com]
Sent: 19 January 2017 15:37
To: [REDACTED]@ceh.ac.uk>
Subject: Update

Hi [REDACTED]
Any news from Science yet?
Regards
[REDACTED]

Syngenta Limited, Registered in England No 2710846; Registered Office : Syngenta, Jealott's Hill International Research Centre, Bracknell, Berkshire, RG42 6EY, United Kingdom

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[REDACTED]

From: [REDACTED]@ceh.ac.uk>
Sent: 06 January 2017 15:36
To: [REDACTED]@syngenta.com; [REDACTED] [REDACTED]@bayer.com
Subject: CEH telecom

All
Sorry
Conference details were wrong

Please use the following

[REDACTED]

Sent from a mobile device, please excuse brevity and typos.

[REDACTED]
Macleod Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 16 December 2016 11:26
To: [REDACTED]
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [REDACTED]

Thanks for this. I assume that means that you are NOT expecting publication before that date, ie the 11th January?

Best Regards

[REDACTED]

Dr [REDACTED]
[REDACTED]
[REDACTED]

Bayer CropScience Limited
230 Cambridge Science Park
Milton Road
Cambridge,
CB4 0WB, UK

Tel: [REDACTED]
Mob [REDACTED]
E-mail: [REDACTED]@bayer.com
Web: www.bayercropscience.co.uk
Twitter:
www.twitter.com/Bayer4CropsUK

From: [REDACTED]@ceh.ac.uk]
Sent: 16 December 2016 11:00
To: [REDACTED]
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [REDACTED]
Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [REDACTED] & [REDACTED]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach.

If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.

Regards

[REDACTED]
[REDACTED]
Ecology & Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED] [ac.uk](mailto:[REDACTED]@ceh.ac.uk)
Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 30 November 2016 10:20
To: Hails, Rosemary S.
Cc: [REDACTED] [REDACTED]
Subject: Bayer statistical evaluation of CEH data
Attachments: 2016 CEH Study, BCS Analysis .pdf

Categories: Awaiting response from someone else

Dear Professor Hails

During the meeting you kindly hosted at CEH on October 13th you discussed possible alternative statistical approaches and methods with my colleagues [REDACTED] and [REDACTED] to further understand the data generated in the study with a view to understanding mechanisms. As agreed we would like to share with you some of our interim findings.

Our statistical expert has looked at the [REDACTED] and included additional weather data which may be a driver of honey bee behaviour and also initial colony food reserves (as a measure of how fit the colonies were). As we did not receive an electronic copy of the data we extracted the figures from the draft report (v13). The data were analysed with and without the treatment+block predictors and a sunshine only model could explain the effects seen on the colonies better than the treatment+block predictor alone. Indeed when treatment+block was added to the sunshine model the explanatory power of the model actually decreased. If weather stations were located at each site so more accurate data could be used.

Another interesting finding for the [REDACTED] was that the statistical analysis was only significant for treatment when the medians were used; using mean (i.e. all the data) or geomeans gave a non-significant outcome. We believe these are important findings which you may wish to consider as if a factor such as sunshine can explain effects the treatment+block predictor might be only correlative rather than causative. Please see attached file for details.

As we extracted the data manually from the report we do not know if we have all the data and also we are keen to look at landscape factors in more detail (not included in the report). Due to the size of the study and spatial separation of the plots and blocks factors such as landscape features, alternative food sources and weather may have had systematic effects on the study. We also would like to run more extensive analyses on the whole dataset and also for each country and a range of metrics.

We are keen to develop this concept further and would welcome it if you would share the raw data with us to enable the most accurate investigations. Also having the full electronic dataset would allow us the opportunity to model the trials *in silico* using the BEEHAVE model which would also be an exciting scientific opportunity.

We welcome any input and discussion on this point which I understand was discussed with you at the meeting and welcome an open dialogue and collaboration on this matter. We would be happy again to meet with you as indicated.

Below are some comments/notes from the [REDACTED] whom you met in October as he can explain the technical details better than me.

[REDACTED]: As discussed in our meeting we have conducted a statistical analysis on the CEH dataset to elucidate about mechanistic co-variables instead of arbitrary predictors country+block. Please find attached a preliminary analysis which we have conducted on the data which were delivered in the report.

The main findings of this analysis are:

- Explanatory power of sunshine and pre-exposure stored hive products is as high as the arbitrary predictors country+block
- There is [REDACTED]
- Different outcomes in the CEH model if median, geomean or average used
 - How to justify that median is a good descriptor of a site with 6 hives?
- Based on the individual hive data also [REDACTED]
- A sunshine only model beat the Country*Treatment interaction also on individual hive data and also shows no significant treatment effects

Open points:

- In general all models are not able to explain the variance in the data
- We missed some important co-variables
- Weather data could be improved
 - At the moment base on MARS Grids, several sites are within the same grid
 - In principle a better model on individual hive data could be established taking into account the pre-exposure hive strength

Therefore it would be very nice if we could have access to the raw data, so that we can run further analysis.

We would be happy to discuss with you the details of the analysis in case you have any question.

Kind regards,
[REDACTED]

Best regards,
[REDACTED]

Bayer: Science For A Better Life

Crop Science Division
Bayer CropScience Limited
230 Cambridge Science Park
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Mobile: [REDACTED]
E-mail: [REDACTED] [bayer.com](mailto:[REDACTED]@bayer.com)
Web: <http://www.bayercropscience.co.uk>

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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 15 December 2016 17:05
To: Hails, Rosemary S.
Cc: [REDACTED]
Subject: RE: Bayer statistical evaluation of CEH data

Dear Rosie

Many thanks for your email. We appreciate very much the considered reply from your team and the provision of the data in electronic form

Best regards

[REDACTED]

From: Hails, Rosemary S. [mailto:rha@ceh.ac.uk]
Sent: 15 December 2016 16:00
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: Bayer statistical evaluation of CEH data

Dear [REDACTED]

Many thanks for your thoughtful comments – our team have been thinking about this and you will get a full response from us, along with the data, later today.

Apologies this has taken a couple of weeks.

Best regards

Rosie

Professor Rosie Hails MBE FRSB

Science Director: Biodiversity and Ecosystem Science

NERC Centre for Ecology and Hydrology
Maclean Building, Benson Lane
Crowmarsh Gifford
Wallingford
Oxfordshire
OX10 8BB

' :01491 692474

' :07825 680254

✉: rha@ceh.ac.uk

PA: [REDACTED]

✉: [REDACTED]@ceh.ac.uk

www sites

VNN: <http://www.valuing-nature.net>

NCI: <http://www.naturalcapitalinitiative.org.uk>

CEH: <http://www.ceh.ac.uk>

Dear [REDACTED],

Please see responses to the questions raised in your email dated 8th December 2016 below in red.

Best wishes

Richard

From: [REDACTED]
Sent: Thursday, December 8, 2016 12:17 PM
To: Richard Pywell
Cc: [REDACTED]
Subject: RE: Final report

Dear Richard

Many thanks for the report. I see a number of changes compared with the previous version.

These (mostly structural) changes were in response to comments provided by Syngenta and Bayer that mostly related to the requirements for regulatory reporting.

It would be helpful to Bayer to know what will be the steps from CEH. For example when do you propose to submit your paper to the journal, which journal will you chose and whether you are preparing one paper (all bees) or two or more keeping the honey bee part separate as we have discussed previously?

A paper has been submitted for peer-review describing the results from both the honeybee and wild bee monitoring. We will shortly be sending out a communications policy for the project to both Bayer and Syngenta.

It would also be very much appreciated if we could see ideally your submitted manuscript so we can be prepared for the time of publication which I'm sure you are aware will be a busy time for both our organisations. We have no intention of commenting or being involved in any way but we do anticipate being kept informed by you on the work we have commissioned, plus any update on the non-Apis project which was conducted in parallel at our honey bee test sites.

In line with discussions with Syngenta regarding this issue, we propose to send both companies a copy of the paper once it has been accepted for publication. This is because the peer review process may change critical components of the paper, such as the type of statistical analysis undertaken and the interpretation of the results.

On a separate note, you may be aware that during the meeting with Rosie Hails a few months back Bayer indicated that we would undertake some additional statistical analysis. Since then we have looked at the [REDACTED] and made some interesting findings which have been shared with Rosie a few weeks back. However we've not received any acknowledgment or response which is surprising and would welcome any further discussion or scientific interaction on this matter.

I can confirm Rosie received the 'Bayer statistical evaluation of CEH data' on 30 November in the form of a powerpoint presentation. CEH comments on this analysis are below.

Also as we extracted the data manually from the version 13 word document we are wondering if there are any other variable measured which were not included and to make further analysis possible and as accurate as possible we would greatly appreciate receiving a copy of the raw data in electronic form – in particular anything to do with landscape factors. This would also be very valuable for valuation of the BEEHAVE model which could be a major scientific contribution. As we have mentioned access to this data on several occasions we'd be very happy to receive this at your earliest convenience. I can provide upload links if necessary should the file size be too large for email.

I can confirm that the final report describes all of the additional data collected as part of the honeybee study. I attach electronic versions of these datasets is attached to the email.

Looking forward to your response

Best regards

CEH comments on ‘Bayer statistical evaluation of CEH data’ (received 30 November)

Based on the advice of the independent Project Advisory Group, CEH statisticians designed and implemented a simple and robust statistical analysis that utilised the power of the experimental design and aimed to test the stated hypotheses of the study. Specifically the analysis investigated first the overall seed treatment effect, and then explored whether these effects differed in a country specific manner. We chose not to include a large number of arbitrary covariates in the analysis as this was considered not to be a defensible and wholly impartial approach.

- Explanatory power of sunshine and pre-exposure stored hive products is as high as the arbitrary predictors country+block
 - The study has a simple experimental design that influences the structure of the model used for statistical analysis.
 - Country and block are not arbitrary predictors. The study was designed in such a way that they are design factors to be included (or at least tested) in all models. [REDACTED] was in agreement with.
 - It would therefore be inappropriate for us to ignore country in such models as this accounts for so many continuous metrics that covary with it. For example, [REDACTED] [REDACTED] However, the inclusion of country in models adds a high level of robustness to the interpretation of explained variance and its likely biological significance.
 - In our opinion sunshine and pre-exposure are more arbitrary predictors. There is no *a priori* reason why these should be included in the model instead of a range of other measured factors. It should also be noted that the exclusion of country and the reliance on continuous covariates produces [REDACTED] [REDACTED].
- Different outcomes in the CEH model if median, geomean or average used
 - How to justify that median is a good descriptor of a site with 6 hives?
 - Outliers are an inherent problem with honeybee hive data which shows high levels of variability, particularly in the context of this experimental design where there is evidence of drift in workers between hives.
 - The choice of median as a measure of central tendency is suited to the assessment of hives as this metric is more robust to outliers than mean or geomean.
 - Median also keeps counts on an integer valued scale rather than an arbitrary continuous scale as a mean would do. Note that we do not use individual hive data on the basis that we were aiming to draw inference at the level of the site rather than the individual hive. This reflects a desire to focus on an applied perspective considering impacts at a scale for which typical apiculture operates.
- Based on the individual hive data also [REDACTED]
- In principle a better model on individual hive data could be established taking into account the pre-exposure hive strength
 - We would not recommend fitting a GLMM to the individual hive data and then making inference from this.

- **Robust inference from GLMMs is known to be weaker than standard GLMs in some circumstances, particularly when sample size is modest, because the likelihood cannot be estimated directly and the degrees of freedom is not known (note that some GLMM functions in R do not even return P values because of this issue).**
- **It is also well known that the estimation of random effects is likely to be very limited where factor levels are low, with a typical rule of thumb being that reliable estimation occurs with 5-6 or more factor levels. The failure to estimate random effects (as has occurred in the Bayer models) reflects an artefact of an experimental design limited, for reasons of cost, to three countries and no more than 4 blocks per country.**
- **The inclusion of hive numbers was again avoided for the reason that it was predicted fundamentally by country, as were a large number of other potential covariates (particularly measures of landscape).**

From: [REDACTED] [mailto:[REDACTED]@bayer.com]
Sent: 30 November 2016 10:20
To: Hails, Rosemary S. <rha@ceh.ac.uk>
Cc: [REDACTED] <[REDACTED]@bayer.com>; [REDACTED] <[REDACTED]@bayer.com>
Subject: Bayer statistical evaluation of CEH data

Dear Professor Hails

During the meeting you kindly hosted at CEH on October 13th you discussed possible alternative statistical approaches and methods with my colleagues [REDACTED] and [REDACTED] to further understand the data generated in the study with a view to understanding mechanisms. As agreed we would like to share with you some of our interim findings.

Our statistical expert has looked at the [REDACTED] and included additional weather data which may be a driver of honey bee behaviour and also initial colony food reserves (as a measure of how fit the colonies were). As we did not receive an electronic copy of the data we extracted the figures from the draft report (v13). The data were analysed with and without the treatment+block predictors and a sunshine only model could explain the effects seen on the colonies better than the treatment+block predictor alone. Indeed when treatment+block was added to the sunshine model the explanatory power of the model actually decreased. If weather stations were located at each site so more accurate data could be used.

Another interesting finding for the [REDACTED] was that the statistical analysis was only significant for treatment when the medians were used; using mean (i.e. all the data) or geomeans gave a non-significant outcome. We believe these are important findings which you may wish to consider as if a factor such as sunshine can explain effects the treatment+block predictor might be only correlative rather than causative. Please see attached file for details.

As we extracted the data manually from the report we do not know if we have all the data and also we are keen to look at landscape factors in more detail (not included in the report). Due to the size of the study and spatial separation of the plots and blocks factors such as landscape features, alternative food sources and weather may have had systematic effects on the study. We also would like to run more extensive analyses on the whole dataset and also for each country and a range of metrics.

We are keen to develop this concept further and would welcome it if you would share the raw data with us to enable the most accurate investigations. Also having the full electronic dataset would allow us the opportunity to model the trials *in silico* using the BEEHAVE model which would also be an exciting scientific opportunity.

We welcome any input and discussion on this point which I understand was discussed with you at the meeting and welcome an open dialogue and collaboration on this matter. We would be happy again to meet with you as indicated.

Below are some comments/notes from the [REDACTED]
[REDACTED] whom you met in October as he can explain the technical details better than me.

[REDACTED]: As discussed in our meeting we have conducted a statistical analysis on the CEH dataset to elucidate about mechanistic co-variates instead of arbitrary predictors country+block. Please find attached a preliminary analysis which we have conducted on the data which were delivered in the report.

The main findings of this analysis are:

- Explanatory power of sunshine and pre-exposure stored hive products is as high as the arbitrary predictors country+block
- There is [REDACTED]
- Different outcomes in the CEH model if median, geomean or average used
 - How to justify that median is a good descriptor of a site with 6 hives?
- Based on the individual hive data also the [REDACTED]
- A sunshine only model beat the Country*Treatment interaction also on individual hive data and also shows no significant treatment effects

Open points:

- In general all models are not able to explain the variance in the data
- We missed some important co-variates
 - Weather data could be improved
 - At the moment base on MARS Grids, several sites are within the same grid
 - In principle a better model on individual hive data could be established taking into account the pre-exposure hive strength

Therefore it would be very nice if we could have access to the raw data, so that we can run further analysis.

We would be happy to discuss with you the details of the analysis in case you have any question.

Kind regards,
[REDACTED]

Best regards,
[REDACTED]
[REDACTED]

Bayer: Science For A Better Life

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[REDACTED]

From: [REDACTED] <[REDACTED]@bayer.com>
Sent: 11 January 2017 14:09
To: Hails, Rosemary S.
Cc: [REDACTED] [REDACTED] [REDACTED] [REDACTED]
Subject: Pan-European-Study / Request to access to Study Data

Dear Prof. Hails,

Reference is made to the Cooperation Agreement dated September 3rd/14th, 2014 regarding the "Pan-European-Study". According to section 5.1 of said agreement all data and information obtained during the carrying out of the project shall be co-owned by the parties and may be used by the sponsors for any purpose. Hence, as party to the agreement and sponsor of the study we are co-owner of all such data and information. As co-owner we believe we are entitled to unlimited, unrestricted and prompt access to all such data and information, including, but not limited to, the data called raw data.

We have requested access to the raw data verbally during our meetings on 21st June and 13th October 2016 and, by email sent by [REDACTED] on 08th December 2016. Despite your promise to grant access, we have to date not yet received this data.

We acknowledge that we have received some information for the honey bee portion of the work in the form of word documents which were provided to us by email on 21st September and 29th October and as an excel file on 15th December 2016. However, these documents all contained the same information and although we were very grateful to receive these, the word documents and spreadsheet provided only aggregated data or was limited to peak values.

By this email we would like to ask you again to provide the complete raw data and by this we think it is useful to explain this in more detail. We should be pleased to receive from you an electronic copy of all data and observations collected within the scope of the study agreement, including all non-aggregated data (i.e. not limited to plot and/or maximum values) and for each and every individual measurement at each assessment time point for all factors and variables for all locations **by January 26th, 2017 at the latest**. These data should also include all information related to bumble and wild bees as these data were also obtained during the conduct of the project and their generation was only possible with the help of our monetary support.

Yours sincerely,

Dr. [REDACTED]
[REDACTED]
[REDACTED]

Bayer: Science For A Better Life

[REDACTED]

[REDACTED]
Building 6100, C 1.76
Alfred-Nobel-Str. 50
40789 Monheim, Germany

Tel: [REDACTED]
Mobile: [REDACTED]
E-mail: [REDACTED] [bayer.com](mailto:[REDACTED]@bayer.com)
Web: <http://www.bayer.com>

Vorstand: Werner Baumann, Vorsitzender | Liam Condon, Johannes Dietsch, Hartmut Klusik, Kemal Malik, Erica Mann, Dieter Weinand
Vorsitzender des Aufsichtsrats: Werner Wenning
Sitz der Gesellschaft: Leverkusen | Amtsgericht Köln, HRB 48248

[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 16 December 2016 15:29
To: Fisher, Paul
Cc: Hails, Rosemary S.; [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Thanks Paul yes 3.30 pm on 6 Jan works fine. Please can you send a meeting request so it goes into our diaries direct and please also invite [REDACTED] from Syngenta.

Regards
[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 16 December 2016 15:04
To: [REDACTED]
Cc: Hails, Rosemary S.
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

[REDACTED]

See my responses to your email in red below.

[REDACTED]

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United Kingdom

[REDACTED]

www.ceh.ac.uk

Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



**Centre for
Ecology & Hydrology**

NATURAL ENVIRONMENT RESEARCH COUNCIL

From: [redacted] [mailto:[redacted]@syngenta.com]

Sent: 16 December 2016 14:20

To: [redacted]@ceh.ac.uk>; [redacted]@bayer.com

Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [redacted]@ceh.ac.uk>

Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [redacted]

Many thanks for this. It will be useful to have an over-arching approach and agreement in place.

I have a couple of questions for clarification:-

- Is it your intention that every point in this proposed policy apply to all parties? For the benefit of the project, the policy should be 'agreed' so that communication is transparent and independent and the results are both made publically available and visible. It would be the ideal for both parties to adhere to the policy.
- I have just noticed in Section 5.3 of the Cooperation Agreement that a Policy was required to be drafted by end of September 2014 but I don't recall we ever actually did this, did we? You are correct, you didn't receive anything in September 2014.

Could we request a call between all parties to finalise this policy in 1st week of January? I think this would be very worthwhile to finalise the policy. Would a telcon at 3.30pm, Friday 6th Jan that fit with you?

Regards and look forward to talking

[redacted]

From: [redacted]@ceh.ac.uk]

Sent: 16 December 2016 11:00

To: [redacted] <[redacted]@syngenta.com>; [redacted]@bayer.com

Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [redacted]

Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [redacted] & [redacted]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach.

If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.

Regards

[redacted]

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United Kingdom



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[REDACTED]

From: [REDACTED]
Sent: 16 December 2016 11:00
To: [REDACTED] bayer.com
Cc: Pywell, Richard F.; Hails, Rosemary S.; [REDACTED]
Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [REDACTED] & [REDACTED]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach. If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.



Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Regards

[REDACTED]

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Press Office: <http://www.ceh.ac.uk/news/press/index.asp>



[Redacted]

From: [Redacted] <[Redacted]@bayer.com>
Sent: 16 December 2016 11:26
To: [Redacted]
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [Redacted]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [Redacted]

Thanks for this. I assume that means that you are NOT expecting publication before that date, ie the 11th January?

Best Regards

[Redacted]

Dr [Redacted]
[Redacted]
[Redacted]

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Tel: [Redacted]
Mobile: [Redacted]
E-mail: [Redacted]@bayer.com
Web: www.bayercropscience.co.uk
Twitter: www.twitter.com/Bayer4CropsUK

From: [Redacted]@ceh.ac.uk]
Sent: 16 December 2016 11:00
To: [Redacted]
Cc: Pywell, Richard F.; Hails, Rosemary S.; [Redacted]
Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [Redacted] & [Redacted]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach. If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.

Regards

[Redacted]

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Maclean Building, Benson Lane
Crowmarsh Gifford, Wallingford
Oxfordshire, OX10 8BB
United Kingdom

[Redacted]

██████████
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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 16 December 2016 14:20
To: [REDACTED]@bayer.com
Cc: Pywell, Richard F.; Hails, Rosemary S.; Coles, [REDACTED]
Subject: RE: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Hi [REDACTED]

Many thanks for this. It will be useful to have an over-arching approach and agreement in place.

I have a couple of questions for clarification:-

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- I have just noticed in Section 5.3 of the Cooperation Agreement that a Policy was required to be drafted by end of September 2014 but I don't recall we ever actually did this, did we?

Could we request a call between all parties to finalise this policy in 1st week of January?

Regards and look forward to talking

[REDACTED]

From: [REDACTED]@ceh.ac.uk]
Sent: 16 December 2016 11:00
To: [REDACTED] <[REDACTED]@syngenta.com>; [REDACTED]@bayer.com
Cc: Pywell, Richard F. <rfp@ceh.ac.uk>; Hails, Rosemary S. <rha@ceh.ac.uk>; [REDACTED]
[REDACTED]
Subject: Communications policy: pan-EU field trial of neonicotinoid seed treatment impact on honeybees

Dear [REDACTED] & [REDACTED]

I am writing to propose our policy in relation to the communication of the pan-EU field trial of neonicotinoid seed treatment impact on honeybees and its results. This will ensure we have an agreed overarching approach.

If you could take time to read the attached document and approve by way of reply to this email [by 11 Jan 2017], I would be grateful.

Regards

[REDACTED]

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United Kingdom

[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 18 October 2016 09:49
To: Pywell, Richard F.; [REDACTED]
Subject: New Publications of Bayers German Landscape bee field trials with Clothianidin
Attachments: Sterk_et_al_2016.pdf; Peters_et_al_2016.pdf; Rolke_et_al_2016_Epub ahead of print.pdf; Rolke_et_al_2016b.pdf; Schmuck&Lewis_2016.pdf; 150620 Fieldstudy Bees summary.pdf

Hi Richard [REDACTED]

Just in case you haven't seen them please find attached for your information the 5 recent published papers originating from from Bayers landscape field trials investigating effects of clothianidin on honeybees, bumble bees and solitary bees. Press release also attached.

Regards

[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 18 October 2016 09:55
To: Pywell, Richard F.; [REDACTED]
Subject: RE: New Publications of Bayers German Landscape bee field trials with Clothianidin
Attachments: Heimbach et al 2016.pdf

Richard [REDACTED]
Oops I missed one! there were 6 papers and here is the missing one Regards [REDACTED]

-----Original Message-----

From: [REDACTED]
Sent: 18 October 2016 09:49
To: Pywell, Richard F. (rfp@ceh.ac.uk) <rfp@ceh.ac.uk>; [REDACTED]@ceh.ac.uk) [REDACTED]@ceh.ac.uk>
Subject: New Publications of Bayers German Landscape bee field trials with Clothianidin

Hi Richard [REDACTED]
Just in case you haven't seen them please find attached for your information the 5 recent published papers originating from from Bayers landscape field trials investigating effects of clothianidin on honeybees, bumble bees and solitary bees. Press release also attached.

Regards
[REDACTED]

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[REDACTED]

From: [REDACTED] <[REDACTED]@syngenta.com>
Sent: 18 November 2016 14:34
To: Pywell, Richard F.
Subject: Final report

Hi Richard

When can we expect to receive the final completed Honeybee Field report?

Regards

[REDACTED]

Syngenta Limited, Registered in England No 2710846; Registered Office : Syngenta, Jealott's Hill International Research Centre, Bracknell, Berkshire, RG42 6EY, United Kingdom

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