p229

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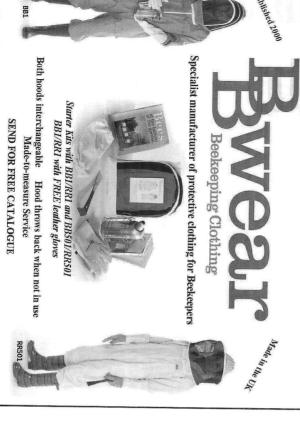


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Letters to the Editor

neonicotinoids on honey bees. important debate on the possible effects of misleading and unhelpful contribution to the Beekeeper (August 2012 p.205) is a very Winter Loss Rates' published in the Scottish The article entitled 'Investigation of

climate variations and queenlessness. acknowledge that there are many factors the effects of Nosema and Varroa destructor involved in winter losses e.g. mis-management winter losses in IBRA's Journal of Apicultural statistics'. The authors of this article had Research 49(1): 129-131 in 2010, where they previously published information concerning of a phrase popularised by Mark Twain kinds of falsehood: lies, dammed lies and Benjamin Disraeli) that there were 'three When I read the article I was reminded attributed to Prime Minister

insecticides, are more likely to suffer from where the seed may have been dressed with the assertion that bees that forage on OSR on the basis of such a small survey, to make surveyed or their locations. It is not possible, any indication of how many beekeepers were of this wide range of factors, nor does it give of the Scottish Beekeeper makes no mention The article printed in the August edition

remember the days in the 1980s when broad both occasions it was with a fungicide. I well seed dressing which makes it much less sprayed - because of the use of insecticidal in the number of times the crop has been of pest management techniques. In recent OSR farmer has sprayed only twice and on necessary. During the 2012 season my local years there has been a significant reduction experienced such a high loss rate. During this to OSR for more than 30 years and I have never have been placed have used a wide variety period the farmers on whose land my hives I have kept bees that have had easy access

> of broad spectrum spraying. pest problem for farmers and for the necessity It is an uncomfortable fact for beekeepers to dressing insecticides considerably reduce the face that the new generation of systemic seed including the natural enemies of the pests. spraying was to kill many other insects beetle and pollen beetles. The effect of this carried out to control cabbage stem flea spectrum insecticide spraying was commonly

of this survey there is absolutely no evidence based on very limited surveys. On the basis on honeybees is a vital debate, but it is not whatever to link the difference in winter losses to the use of neonicotinoids. helped by the publishing of flawed research The possible effect of neonicotinoids

and make assertions that do not bear scrutiny on such an important subject. be publishing articles that give conclusions the Scottish Beekeepers Association should I am concerned that the official journal of

Dr Stephen Palmer FRGS FLS



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238 SEPTEMBER 2012

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Oh, East is East and West is West

THE August Scottish Beekeeper carried two articles on winter loss rates showing apparent differences between East and West Scotland, or differences in reported exposure to oilseed rape. The articles concluded "this finding supports the hypothesis that neonicotinoid-treated OSR may be contributing to the honeybee decline in the UK", and 'these results appear to lend further weight to the contention that the use of neonicotinoid seed dressing on this particular crop may have an adverse effect".

series of events. Bees exposed to oilseed rape usually in April and May behave normally, according to the forage available and the August and September, replace their worker normally, and build from small overwintered waggle dance and recruit their colleagues common sense argues against oilseed rape which are not cause and effect. In addition, geography is going to throw up associations weather. Early spring exposure is very unlikely summer, and show normal colony vigoui populations twice or three times over the year. Mine do, and other people's bees do stocks to booming colonies on this diet every pesticides affecting winter survival. Such a or cropping patterns which correlate with Dividing data sets according to geography December to March in these circumstances to cause colony deaths in the following hypothesis would require a rather unlikely Then the bees use other forage in June, July,

The suggestion of a link between mass colony deaths and pesticides first surfaced in France where at least the colony losses and exposure were not widely separated in time. More recently there have been spring poisoning events in continental Europe associated with risky planting strategies and the release of poisonous dust. However the long separation between oilseed rape exposure, usually in May, and late winter colony deaths always made this exposure an unlikely cause for concern and the addition of interaction between mite treatments and this early spring agricultural pollution hardly adds credence to this hypothesis.

So, I decided to conduct my own research. It took me perhaps an hour, though the participating beekeeper will have spent more hours going through his records and adding up the figures. A detour to Murray McGregor's base in Coupar Angus on my way home from work one evening a few days ago was all that was required.

winter. In Hereford, as in Scotland, losses

Let's start with the basic data. I have reproduced the figures produced by Magnus Peterson and Alison Gray and by John Durkacz and Christopher Connolly (see table below) to compare with those of the biggest beekeeper in Scotland Murray McGregor. Murray's losses are one third of those

Colony losses over two recent winters	Winter	Forage	Total colonies	Wintering losses
		Eastern Scotland	80	30%
reteiseil aild Glay	2010-11	Western Scotland	172	15%
Durkans and Connolly	2011	With OSR	89	30%
Dairacz alia Colliony	21-17	Without OSR	82	16%
Murray McGregor	2011-12	All with OSR *	2000	5%
* All of Murray McGregor's Tayside and Lethian colonies were taken to winter cilened and	awide and Lethian	colonia war tolon to win	in a 11 and a 1	

 All of Murray McGregor's layside and Lothian colonies were taken to winter oilseed rape for the flowering season in April and May.

of the losses of those surveyed colonies which could forage on oilseed rape in 2011. How can this be?

splits. Some problem colonies are just shaken strong and healthy by boosting problem or the heather, both of which give them a boost. season, usually with queen-right nucs and underperforming colonies throughout the to his management of his bees. He controls aphids on young plants. There is no secret oilseed rape seed to control flea beetle and to traces of the neonicotinoids that are put on about ten-fold larger than the total in each of there the losses were 7% over the 2011-2012 also manages colonies in Hereford where 8% in his wooden hives. These losses were the lowest he has seen for several years. He further. His 5% overall losses in his Scottish Murray has analysed his 2011-2012 losses times. He also takes them to oilseed rape and the end of the season and occasionally at other better colonies. He feeds his bees adequately at out on the heather so that the bees can join Varroa effectively, ensuring his colonies are sprinkle over the hives to counter the exposure the other studies. Murray has no magic dust to there's no exposure to oilseed rape and bees stood at 3% in his polystyrene hives and Bear in mind that Murray's sample size is

colonies were in apiaries under Standstil which gave them a good mid-season boost. winter OSR were better but best, by far, were OSR colonies. Colonies able to be moved to some exposure to foulbrood in the nonto be said that there may also have been bees, fewer young bees and colonies generally to oilseed rape and over the 2010-2011 that due to the EFB outbreak 25% of his were usually due to queen failure. Murray summarised his opinion as follows: colonies with access to spring oilseed rape in poorer shape for wintering although it has winter they had higher losses than his other honey than the colonies which were moved Orders and were not moved to oilseed rape he had a total of 1500 colonies, Murray saic Looking back to the summer of 2010 wher bees. He attributed this to less well nourished These colonies produced considerably less

recorded in the articles for bee colonies without access to oilseed rape, and one sixth

- There is no negative association from exposure to oilseed rape
- He actively seeks OSR for all colonies to gain the boost in colony vigour and honey

Production from that forage crop.
 Rees in Fastern Scotland in bard

- Bees in Eastern Scotland in particular have suffered in recent years due to the prevalence of E winds, a change from the normal pattern of weather dominated by SW winds.
- Queen failure (missing queens, non-laying queens and drone laying queens) are all directly associated with the length of time it takes for the queen to find a window in the weather to mate and come into lay. This happens in OSR and non-OSR areas. Second year queens tend to overwinter better than first year queens.
- In addition to weather-related problems, parts
 of Eastern Scotland suffer from relatively high
 bee populations. There can be a nutritional
 dearth when flora is in short supply
 particularly in agricultural areas.
- He isn't complacent about the low losses in 2011-2012 and expects much higher losses in 2012-2013 due to the poor season this year, unless we are blessed with a wonderful late August and September.

a range of other variables that can easily and beekeeping philosophies. and potentially even quality of beekeeping even Varroa pressure that brings, weather, explain the data. The quality and length of progressive rise in loss rate going from OSR, issues simply misleads people. For example, a and without any hint of seeking support for density and the changes in nutrition and to oilseed rape, but also general agricultural will correlate not only with level of exposure variables. Differences between east and west toraging carries with it association with soft fruit and orchard to mixed woodland data without properly considering the wider Science should proceed with an open mind foraging season for the bees are two of these pre-determined positions. Interpreting such deserts', Varroa presence or absence, colony

The main lessons to learn from this are, you can reduce your winter losses by feeding as required to top up stores and raise young bees for the winter, moving your bees to gain access to good forage, even when treated with neonicotinoids, keeping colonies strong, and by controlling Varroa with effective methods. The patterns in the results presented in the August Scottish Beekeeper indicate correlations not causations, and there are more comprehensive data that point in a different direction.