



SDI Review Form 1.6

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| Journal Name: | Journal of Experimental Agriculture International |
| Manuscript Number: | Ms_JEAI_48113 |
| Title of the Manuscript: | Experimental Investigations Problems of Drift in Aerial Spraying |
| Type of the Article | Review |

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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PART 1: Review Comments

| | Reviewer's comment | Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---|--|------|-----|------|------|-----|------|------|------|------|------|------|------|------|------|-------|------|-------|-----|------|-----|------|------|-----|-----|------|-----|------|------|-----|------|------|-----|------|------|------|----|
| Compulsory REVISION comments | <p>Good review paper fit for publication by JEAI. However, the paper has been poorly articulated and its findings poorly discussed. Even the abstract is inarticulate, giving the reader no clue of what the paper's findings are.</p> <p>The paper should therefore be well articulated and its findings properly discussed before it could be considered for publication.</p> | <p>In my opinion in the paper the causes and effects of drift are clearly pointed out. Furthermore, thanks to the experimental investigation that was made there were acquired formulas for estimating protection zones depending on the type of used pesticides, which is the main finding of this paper.</p> <p>I will try to articulate those better in the revised version of the paper.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Minor REVISION comments | <p>Most of the research works cited in the paper date to as far back as the 1970s, 1980s, 1990s, and early 2000s which does not do justice to the paper. More should have been done to sought for and cite the most recent research works (2013 – 2019) related to the study in order to give the paper more relevance in today's context.</p> | <p>Yes you're right, in the bibliography only 7 articles are dated from 2000 to recent times. There are some interesting works written mainly by Teske M.E, Thistle H.W and his cowriters like:</p> <p>Teske M.E, Thistle H. W. 2004. "Aerial Application Model Extension into the Far field" (Biosystem engineering, 89(1), p.29-36. up to</p> <p>Teske M. E., Thistle H. W., Riley Ch. M., Hewitt A. J. 2016. "Initial Laboratory Measurement of the evaporation Rate of Droplets Inside a Spray Cloud". Tran. of ASABE 59(2), p. 487-493. I know 7 papers of Teske M.E. and his cowriters, that are mainly connected with theoretical problems or laboratory experiments. The main development of agricultural aviation came in 70s, 80s and 90s, what can be clearly presented on graphs. In this time took place the largest amount of theoretical and experimental works, mainly in UK (Cranfield-Silsoe), DDR (Leipzig, Kleinmachnow), Holland (Wageningen), Poland (Olsztyn, Mielec), USSR (Krasnodar), the big Instytut of Agricultural Aviation. Most of the works after that develop and complement this research (for example AGDISP), which is why I decided to cite those works.</p> <div style="text-align: center;"> <table border="1"> <caption>Overall size of agricultural aircraft treatments (F x 10⁶ ha)</caption> <thead> <tr> <th>Year</th> <th>USA</th> <th>ZSRR</th> </tr> </thead> <tbody> <tr> <td>1950</td> <td>6.7</td> <td>13.2</td> </tr> <tr> <td>1960</td> <td>20.1</td> <td>61.5</td> </tr> <tr> <td>1970</td> <td>40.0</td> <td>80.3</td> </tr> <tr> <td>1980</td> <td>72.8</td> <td>101.4</td> </tr> <tr> <td>1990</td> <td>108.0</td> <td>370</td> </tr> </tbody> </table> </div> <div style="text-align: center;"> <table border="1"> <caption>Number of agricultural aircrafts (N x 10³)</caption> <thead> <tr> <th>Year</th> <th>USA</th> <th>ZSRR</th> </tr> </thead> <tbody> <tr> <td>1950</td> <td>4.5</td> <td>5.8</td> </tr> <tr> <td>1960</td> <td>5.1</td> <td>10.9</td> </tr> <tr> <td>1970</td> <td>6.0</td> <td>16.9</td> </tr> <tr> <td>1980</td> <td>8.6</td> <td>26.1</td> </tr> <tr> <td>1990</td> <td>12.0</td> <td>34</td> </tr> </tbody> </table> </div> | Year | USA | ZSRR | 1950 | 6.7 | 13.2 | 1960 | 20.1 | 61.5 | 1970 | 40.0 | 80.3 | 1980 | 72.8 | 101.4 | 1990 | 108.0 | 370 | Year | USA | ZSRR | 1950 | 4.5 | 5.8 | 1960 | 5.1 | 10.9 | 1970 | 6.0 | 16.9 | 1980 | 8.6 | 26.1 | 1990 | 12.0 | 34 |
| Year | USA | ZSRR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1950 | 6.7 | 13.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1960 | 20.1 | 61.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1970 | 40.0 | 80.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Optional/General comments | Good review paper that could be published by JEAI. However, the aforementioned comments and evaluations should be imperatively taken into consideration before the paper is considered for publication. | |
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PART 2:

| | Reviewer's comment | Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i> |
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| Are there ethical issues in this manuscript? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | No, there are no ethical issues in this manuscript. |