



**SDI FINAL EVALUATION FORM 1.1**

**PART 1:**

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| Journal Name:            | <a href="#">American Journal of Experimental Agriculture</a>                                        |
| Manuscript Number:       | Ms_AJEA_22538                                                                                       |
| Title of the Manuscript: | Impact Of Preceding Legumes And Nitrogen Fertilizer On Soil Fertility And Growth Attribute Of Maize |
| Type of Article:         | Original Research Paper                                                                             |

**PART 2:**

| FINAL EVALUATOR'S comments on revised paper (if any)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Authors' response to final evaluator's comments                                                                |
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| <p>I appreciate that the author had taken efforts to fulfil the required correction. Eventhough this manuscript dealt on <b>Impact of preceding legume and Nitrogen levels on Maize</b> –Preliminary year study</p> <p>Author not provided the details</p> <ol style="list-style-type: none"><li>1.Initial and Post-harvest soil available nitrogen content of any experiment</li><li>2.Fertilizer Dose for Wheat Crop- Summer (legumes)</li><li>3.Standard reference for soil analysis</li><li>4.Legumes, Maize- Total nitrogen content and Protein content</li><li>5.Whether the legumes treated with <i>Rhizobium sp</i> and <i>PSB</i></li><li>6. Legume , Maize spacing or population density per ha</li><li>7. B:C ratio of treatments</li></ol> <p><b>Title: Impact of preceding legume and Nitrogen levels on Maize</b> –Preliminary year study</p> <p>Modified abstract were included, If required you can improve.</p> <p>Experiment on summer legumes (mungbean, cowpea and sesbania) - maize cropping system with different nitrogen levels were carried out in University of Agriculture, Peshawar during 2011-2012 to <b>determine</b> the immediate and residual effects on soil and plant. The summer legumes such as mungbean, cowpea and sesbania were sown for grain, fodder and green manure purposes respectively along with fallow as control. After legumes four levels of nitrogen (0, 90, 120 and 150 kg ha<sup>-1</sup>) were taken for maize. Post-harvest soils of legume experiment results <b>were not significantly affected</b>. However, <b>soil pH was lower in mungbean plots than fallow plots</b>. While on other soil properties viz., Total Soluble Salts, Electrical Conductivity and Calcium Carbonate content were recorded higher in mungbean plots than fallow plots. All the parameters under investigation were significantly affected by nitrogen levels except emergence m<sup>-2</sup> of maize. The effect of legumes was significant for maize <b>grains per ear</b> and ear weight. Taller plants (206 cm) were recorded on 150 kg N ha<sup>-1</sup> applied plots and followed by N application of 120 kg ha<sup>-1</sup> while control plots resulted in short stature plants (188 cm). Plots fertilized with high N (150 kg ha<sup>-1</sup>) had significantly higher ear weight which was at par with N application at the rate of 120 kg ha<sup>-1</sup>. Higher <b>grains per ear</b> were found in ear collected from plots treated with N at the rate of 120 kg ha<sup>-1</sup> which was at par with plots fertilized with N at the rate of 150 kg ha<sup>-1</sup> and control plots resulted in fewer grains ear<sup>-1</sup>. <b>The above results suggested that preceding legume plots perform better than fallow plots and it may be concluded that the use of summer legumes in maize</b></p> | <p><b>Authors' response to final evaluator's comments</b></p> <p><b>All the comments are incorporated.</b></p> |



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| <p>cropping system will be a good strategy for sustainability</p> <p>I congratulate the authors for lucid Introduction.</p> <p>Authors need to improve on remaining chapters</p> <p>Methodology</p> <p>Soil is clay loam, low in organic matter (0.87 %), phosphorus (6.57 mg kg<sup>-1</sup>), potassium (121 mg kg<sup>-1</sup>) and alkaline (pH 8.2) and is calcareous in nature</p> <p><b>IV. RESULTS AND DISCUSSION</b></p> <p>How did you derive Table 2a and 2b ?</p> <p>Require further more discussion by own and take support from other literature.</p> <p>Try to write conclusion based on your results</p> <p>All references must follow the SDI pattern</p> <p><b>Note:</b> Few basic mistakes were observed, Table 2a-b confusing and also within one year trial, you can't conclude hence include the term first year or preliminary study on title. If you continue this study further, we can come for any viable solution on this cropping system impacts.</p> <p>All the above mentioned correction must be carried out.</p> |  |
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