

Review Form 1.6

Journal Name:	International Journal of Plant & Soil Science
Manuscript Number:	Ms_IJPSS_85261
Title of the Manuscript:	Effect of Cow-based Liquid Manures and Spraying Schedule on Growth and Yield of Cowpea (Vigna unguiculata L.) under Natural Farming
Type of the Article	Original Research Article

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:

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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	<ul style="list-style-type: none"> - Almost all required corrections were mentioned in their position. - The author must renumber the reference either in the body text or in the reference list as corrected form and the attached file [REFERENCE arrangement.doc]. - The author did not discuss the obtained results with other authors but mentioned their results as a form of historical review, especially the following sub-titles: Plant height (cm), Number of branches, Number of nodules, Plant dry weight (g/plant). - In all tables, "±SE" must be added following each mean (there are 3 replicates). - "F-values" must be added with its significance star(s), i.e., ** or *. - Also, "Significant letters" must be added after each mean within each column to differentiate between treatments, by applying "LSD" or "Duncan Multiple Range test". - There was no discussion for obtained results in Table (2), as well as no general discussion for the obtained results. - In the "Conclusion" section, the author mentioned that he/she, built the obtained results on data for one season only, whereas, in any experimental research, one-season results are not recommended, at least 2 successive seasons will be acceptable. 	
Minor REVISION comments	<p>I prefer to change the title to "Effect of Cow-based Liquid Manure and Spraying Schedule on Growth and Yield of Cowpea (<i>Vigna unguiculata</i> L.) Under Ordinary Farming'.</p>	
Optional/General comments	<p>4 [1] Annonymous, (2015). http://www.nabard.org.</p> <p>2 [14] Avudaithai S, Kathiresan G, Kavimani R, Satheesh NK, and Somasundaram S. Effect of <i>Panchagavya</i> and fertigation on growth parameters and yield attributes of groundnut and soil moisture content under drip irrigation. Green FMG. 2010;1(4):360-362.</p> <p>3 [12] Devakumar N, Shubha S, Gouder SB, and Rao GGE. Microbial analytical studies of traditional organic preparations <i>beejamrutha</i> and <i>jeevamrutha</i>, Proc. Building Organic Bridges. Fourth ISOFAR Scientific Conference, Istanbul, Turkey; 2014.</p> <p>4 [7] Gomez KA, and Gomez AA. Statistical procedures for agricultural research. John Wiley and Sons, New York; 1984.</p> <p>5 [3] Gore SV, Patil RB, and Wankhade GR. Effect of maturity period and harvesting time on seed quality in soybean (<i>Glycine max</i> [L.] Merrill) cultivars. Seed Research. 2011;25(1):45-49.</p> <p>6 [15] Kumar RS, Ganesh P, Tharmaraj K, and Saranraj P. Growth and development of black gram (<i>Vigna mungo</i>) under foliar application of <i>Panchagavya</i> is an organic source of the nutrient. Current Botany. 2011;2(3): 9-11.</p> <p>7 [11] Kumaravelu G, and Kadamban D. <i>Panchagavya</i> and its effect on the growth of Greengram cultivar K-851. International Journal of Plant Science. 2009;4(2): 409-414.</p> <p>8 [8] Patel MM. Effect of <i>Panchagavya</i> on growth and yield of cowpea (<i>Vigna unguiculata</i>), M.Sc. (Agri.) thesis, Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar; 2012.</p> <p>9 [13] Pratik P, Patel PH, Patel AG, and Ajit D. Effect of <i>Panchagavya</i> on Growth, Yield, and economics of chickpea (<i>Cicer arietinum</i>). International Journal of Chemical Studies. 2017;5(2): 265-267.</p> <p>10 [9] Reshma S, Sujith GM, and Devakumar N. Growth and yield of cowpea [<i>Vigna unguiculata</i> (L.)] as influenced by <i>jeevamrutha</i> and <i>Panchagavya</i> application.</p>	

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	<p>Legume Research- An International Journal. 2018;(42):824-828.</p> <p>44. [5] Selvaraj J, Ramaraj B, Devarajan K, Seenivasan N, Senthilkumar S, and Sakthi E. Effect of organic farming on growth and yield of thyme. In: Articles and abstracts of Natnl. Sem. Prodn. Utilizn. Med. Pl., 13-14, March, 2013 held at Annamalai University Tamil Nadu, p. 63. 2007.</p> <p>42. [4] Suemitsu R, Shin-ichi F, Yasuo M, and Mitsuo Y. Studies on cow's urine IVth. Determination by Gas-liquid chromatography of an acid part obtained from cow's urine. Bulletin of the Chemical Society of Japan. 1968;41:1381-1385.</p> <p>43. [10] Sait M, and Mehmet K. Effect of nitrogen and phosphorus levels on nodulation and yield components in faba bean (<i>Vicia faba</i> L.). Legume Research. 2016;39(6):991-994.</p> <p>44. [2] Tamhane RV, VP Motiramani, YP Bali and RL Donahue. Manures, compost, green manure, sawdust, and sewage. In soils, their chemistry and fertility in tropical Asia. Ed. IInd Prentice Hall of India, Pvt. Ltd., New Delhi. pp. 278-285;1965.</p> <p>45. [6] Xu HL, and Xu HL. Effect of microbial inoculants and organic fertilizers in the growth, photosynthesis and yield of sweet corn (<i>Zea mays</i> L. saccharata). Journal Crop Production. 2000;3(9):183-214.</p>	
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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>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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