

V. CONCLUSION AND RECOMMENDATION

5.1 Conclusion

Based on this study conclude that:

1. The supplementation of cuttlefish shell powder with different doses gave a significant effect on increasing Ultisol soil pH. The supplementation of 9.37 g cuttlefish shell powder shows the best performance on increasing soil pH.
2. The supplementation of cuttlefish shell powder with different doses gave a significant effect on chlorophyll a and chlorophyll b content. The supplementation of 3.12 g cuttlefish shell powder showed the best performance on increasing chlorophyll a and chlorophyll b content. However the supplementation of cuttlefish shell powder at different doses did not give a significant effect on some parameter of vegetative growth and yield parameter of upland rice.

5.2 Recommendation

Based on this research, the supplementation of cuttlefish shell powder as an ameliorant gave a significant effect on environmental parameter (soil pH), but were not effectively enough toward some of vegetative growth and yield parameter of upland rice plant. Further research and investigation about cuttlefish shell powder as an ameliorant should be completed with combination using organic fertilizer and use more environmental factors to see the effect of the ameliorant on the soil and plant growth.