CONCLUSION AND SUGGESTION

Conclusion

There were new chili pepper lines that had higher yield than the compared varieties, which are Pesona I-1, Pesona I-2, IPB 110005-91-17-3, IPB 120005-1-17, IPB 120005-5-11-2, IPB 009019-3-4-10 and IPB 110005-91-13-4. Lines that had longer fruit length and heavier fruit weight than Lembang 1 were Pesona I-1 and IPB 009019-3-4-10. Lines that had higher total number of fruits per plant than Trisula and Tit Super were IPB 110005-91-17-3, IPB 120005-1-1-17 and Pesona I-1. Lines that 4 had higher total fruit weight per plant and higher potential productivity than Lembang 1 were Pesona I-1, Pesona I-2, IPB 120005-5-11-2, IPB 009019-3-4-10 and IPB 110005-91-13-4.

High estimated broad sense heritability value was found in all the observed quantitative characters. These characters on the new chili peppers lines were more influenced by genetic factors than environmental factors.

Suggestion

The lines IPB 009019-3-4-10 and IPB 110005-91-13-4 had good plant condition, productivity and total fruit weight per plant. Further research should be conducted to release them as new varieties. Pesona I-1 and Pesona I-2 had high productivity and fruit traits, however further research are still needed to develop them as a new variety. The line IPB 110005-91-17-3 can be further developed into a semi-curly chili pepper variety.