

## CHAPTER V. CONCLUSION AND RECOMMENDATION

### 5.1 CONCLUSION

The variety Hiem chili F1 DEMON has the growth time and pre-production (184 days) which equal with the two reference varieties. The length of fruit (5.46 cm) which shorter than the reference variety Cabe keriting LARIS F1 (8.75 cm), but higher than the reference variety cabe rawit BARA (3.55 cm). The number of fruits/plant (19.67/plant) with fruiting ratio 58.70% which similar to the two reference variety (16.1 and 20 fruits/plant) with fruiting ratio (49.80% and 62.50%), respectively. Infection rates with Anthracnose, wilt and virus disease are low. The yield is about (0.80 tons/ha) which lower than the reference variety Cabe keriting LARIS F1 (1.0 tons/ha) and higher than the reference variety Cabe rawit BARA (0.39 tons/ha). The dry matter is 27.53% which equal with two reference varieties (22.30% and 27.12%). The number of seeds (68.67 seeds) which higher than the two reference varieties (51.33 and 48.33 seeds). Spicy level is in level 2 (Spicy) which more spicy than the reference variety Cabe keriting LARIS F1 (A little spicy) and less spicy than the reference variety cabe rawit BARA (Quite spicy).

The variety Hiem chili F1 01 has the growth time and pre-production (178 days) which shorter than the two reference varieties, reflecting the characteristics of early maturing. The length of fruit (5.63 cm) which shorter than the reference variety Cabe keriting LARIS F1 (8.75 cm), but higher than the reference variety cabe rawit BARA (3.55 cm). The number of fruits/plant (42.33/plant) with fruiting ratio 66.73% which higher than the two reference variety (16.1 and 20 fruits/plant) with fruiting ratio (49.80% and 62.50%), respectively. Infection rates with Anthracnose, wilt and virus disease are low. The yield is about (3.20 tons/ha) which higher than the two reference variety (1.0 and 0.39 tons/ha). The dry matter is quite high 28.98% which equal with the two reference varieties (22.30% and 27.12%). The number of seeds (77 seeds) which higher than the two reference varieties (51.33 and 48.33 seeds). Spicy level is in level 2 (Spicy) which more spicy than the reference variety Cabe keriting LARIS F1 (A little spicy) and less spicy than the reference variety cabe rawit BARA (Quite spicy).

The variety Hiem chili F1 131 has the growth time and pre-production (180 days) which shorter than the two reference varieties, reflecting the characteristics of early maturing. The length of fruit (5.29 cm) which shorter than the reference variety Cabe keriting LARIS F1 (8.75 cm), but higher than the reference variety cabe rawit BARA (3.55 cm). The number of fruits/plant (36.73/plant) with fruiting ratio 69.40% which higher than the two reference varieties (16.1 and 20 fruits/plant) with fruiting ratio (49.80% and 62.50%), respectively. Infection rates with Anthracnose, wilt and virus disease are low. The yield is about (1.53 tons/ha) which higher than the two reference variety (1.0 and 0.39 tons/ha). The dry matter is quite high 27.65% which equal with the two reference varieties (22.30% and 27.12%). The number of seeds (78.33 seeds) which higher than the two reference varieties (51.33 and 48.33 seeds). Spicy level is in level 4 (Very spicy) which more spicy than the reference variety Cabe keriting LARIS F1 (A little spicy) and more spicy than the reference variety cabe rawit BARA (Quite spicy).

The variety Sung vang chili has the growth time and pre-production (184 days) which equal with the reference varieties. The length of fruit (8.94 cm) which equal with the reference variety Cabe keriting LARIS F1 (8.75 cm), but higher than the reference variety cabe rawit BARA (3.55 cm). The number of fruits/plant (20.67/plant) with fruiting ratio 64.54% which equal the two reference varieties (16.1 and 20 fruits/plant) with fruiting ratio (49.80% and 62.50%), respectively. Infection rates with Anthracnose and virus disease are high, wilt disease is low. The yield is about (1.72 tons/ha) which higher than the two reference variety (1.0 and 0.39 tons/ha). The dry matter is short 11.94% which smaller than to the two reference varieties (22.30% and 27.12%). The number of seeds (53.67 seeds) which equal the two reference varieties (51.33 and 48.33 seeds). Spicy level is in level 4 (Very spicy). Spicy level is in level 4 (Very spicy) which more spicy than the reference variety Cabe keriting LARIS F1 (A little spicy) and more spicy than the reference variety cabe rawit BARA (Quite spicy).

## 5.2 RECOMMENDATION

The varieties Hiem chili F1 01, Hiem chili F1 131 and Sung vang chili have high productivity potential therefore it needs to be studied more to get a deep understanding for better cultivation in the future before they could be in mass production.

The need is that to conduct experiment in different regions to evaluate the adaptability and stability of these varieties, to find out the best suitable variety for different regions.

