V. CONCLUSION

5.1 Conclusions

There are several conclusions that can be drawn from this thesis:

1. Land suitability for rubber plantation is obtained from GIS. Land Suitability for rubber in Banyuasin Regency could be divided into (2) two classes: high suitable (S1) areas and moderately suitable (S2) areas.

2. The productivity of rubber in Banyuasin Regency is quite high with average about 1.8 ton/ha/year.

3. Condition of highly suitable (S1) area planted with rubber and low productivity about 158 ha from existing of rubber areas, this area should be developed by better management production and change with recommendation clone.

4. Because the impact of economic and social factors is positive, so as consideration Betung, Rantau Bayur, Rambutan and Banyuasin 3 Sub Regencies eligible for areas of priorities for rubber plantation development.

5. The total area of priorities for rubber plantation development is 51,960 ha or 4.87% from area of Banyuasin Regency.

6. Geographic Information System and Multi Criteria Analysis as tools have proven to be useful to evaluate and determination area of priorities development of rubber plantation in Banyuasin Regency.

5.3 Recommendations

The impact from economic, social and environmental increase from year to year, and it need more deep research. Some recommendations related to this study that can be developed in the future include:

1. According to the result of this study, more detailed scale map or large-scale is needed for different scale-level, such as for Regency and Sub Regency level (1:25,000 and 1:100,000).
2. The accurate data is needed to get more accurate information on land suitability, productivity of rubber, social and economy data.

3. Information about land suitability area can be used by local government as a tool for land use planning, and for investors or farmers to determine which areas could be suitable to be planted with rubber trees.

4. Talang Kelapa Sub Regency and Rambutan Sub Regency are areas suitable for rubber plant but low productivity. There needs to be further research related to recommendation clone, use high quality seed for this sub regency.

5. Economic and social factors is vast and complex for it is necessary for further research related to economic and social factors with respect to the character of each sub regency.