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Green Cashew Project

Testing on Agro-Ecological Techniques

Partner with Agri-Smart Innovation Co., LTD

2023 - 2024



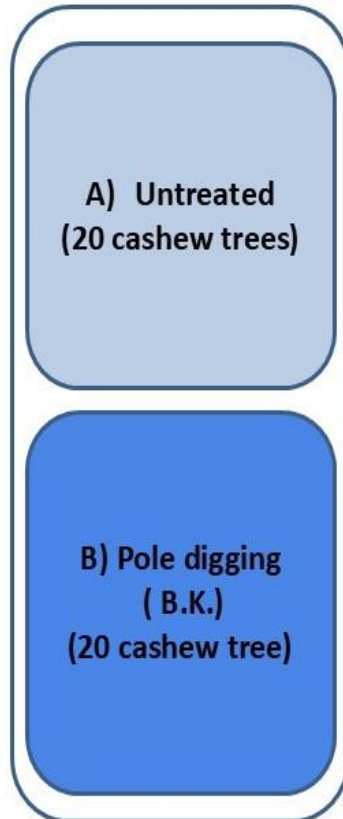
ALiSEA
Agro-ecology Learning alliance in South East Asia



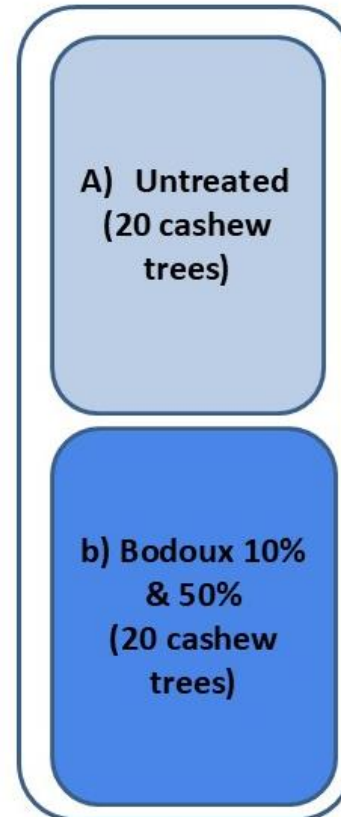
Belgium
partner in development

I. Experiment Setup of Trial plot

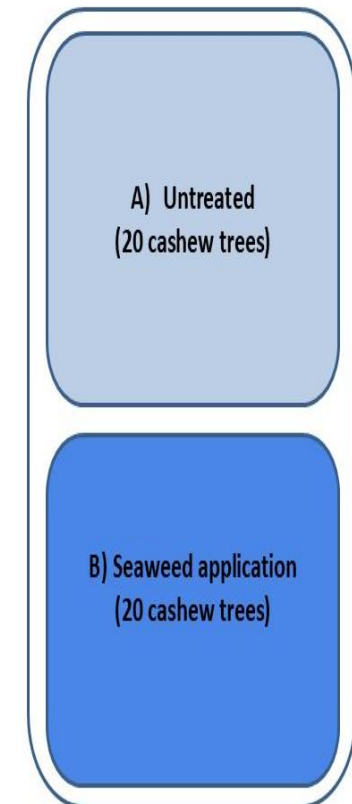
1) Soil Fertility



2) Pest Control-



3) Reduce flower dropping



II. Trial farmers were selected

July 2023: Trial-farmers were selected to demon on agro-ecological technique by Agri-smart Innovation Co., Ltd.



Mr. Vin Samea was selected trial farmers to demo on cashew farms at Okroch village.



Mr. BK was selected trial farmers to demo on cashew farms at Bos Veng village.

III. Agro-Ecology Techniques training and practice testing

August 2023: Trial-farms establishment and demonstration of agroecological techniques application in **pest control (Bodoux mix 10%)** to trial farmers by Agri-smart Innovation Co., Ltd.



III. Agro-Ecology Techniques training and practice testing

August 2023: Trial-farms establishment and demonstration of agroecological techniques application in **pest control (Bodoux mix 50%)** and **reduce flower drop (Seaweed)** to trial farmers by Agri-smart Innovation Co., Ltd.



Mr. Soth Savy sprayed bodoux mix 50% on Cashew trees to protect insects at Russei Douch village.



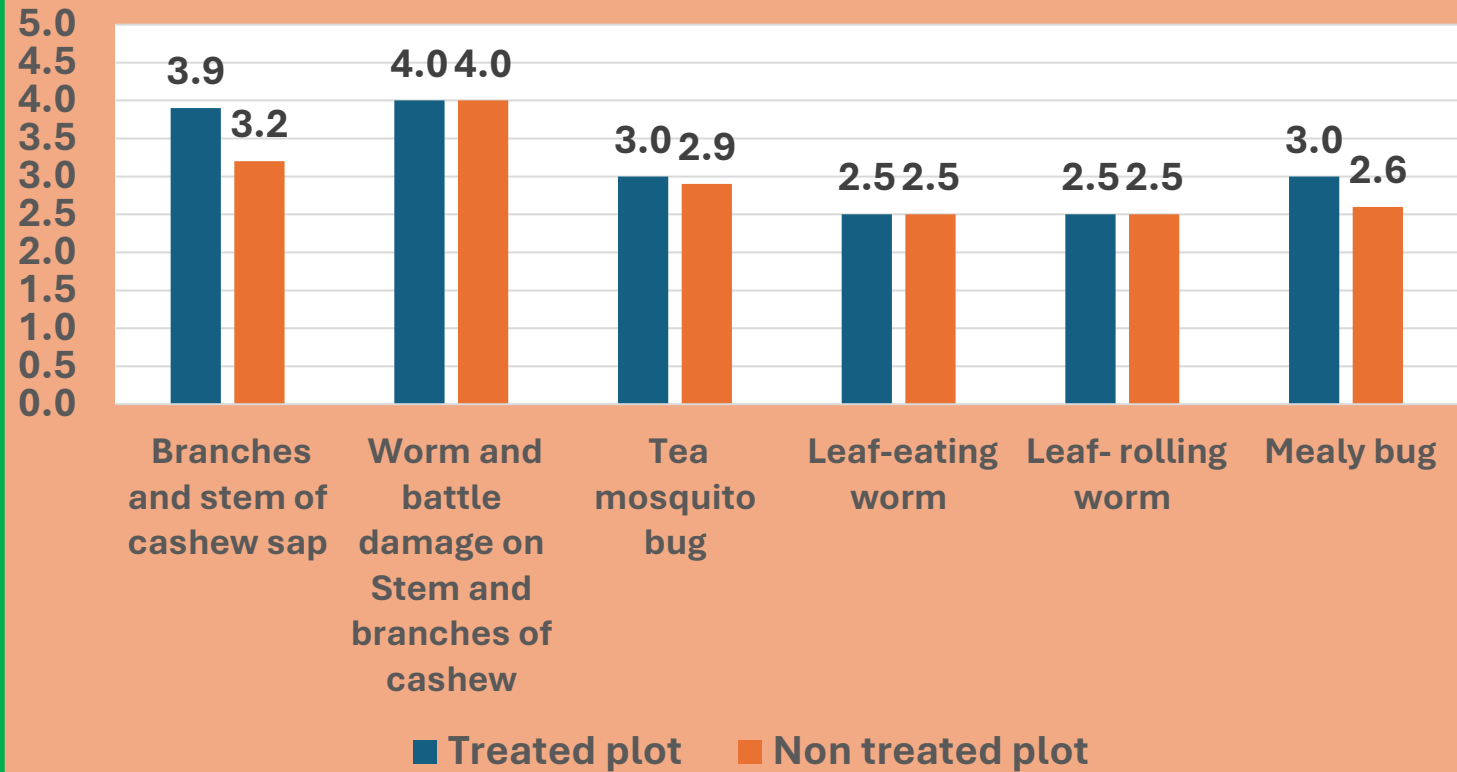
Mrs. Noch Khon sprayed seaweed on cashew trees on flower stage to protect dew and rain at Russei Douch village.



IV. DATA ANALYSIS RESULT ON FIELD MONITORING (CONTINUE)



1. Pest Control (Bodoux10% &50%)



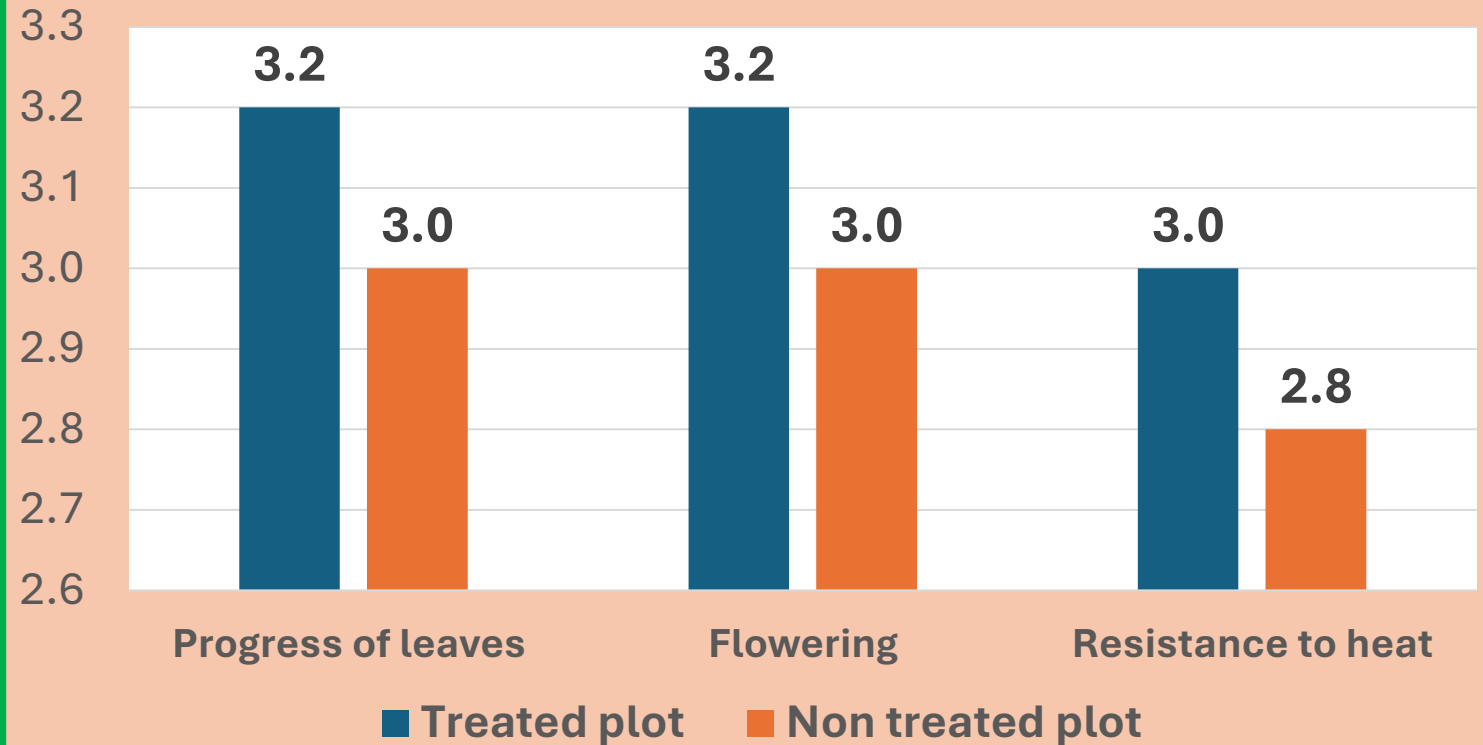
Overall, the treated plot demonstrates slightly better pest control for specific pests_and needs farmers to control and check their farms frequency with insects and sprayings.

Field monitoring data analysis follow to the link [Chart for field monitoring data analysis.](#)

IV. DATA ANALYSIS RESULT ON FIELD MONITORING (CONTINUE)



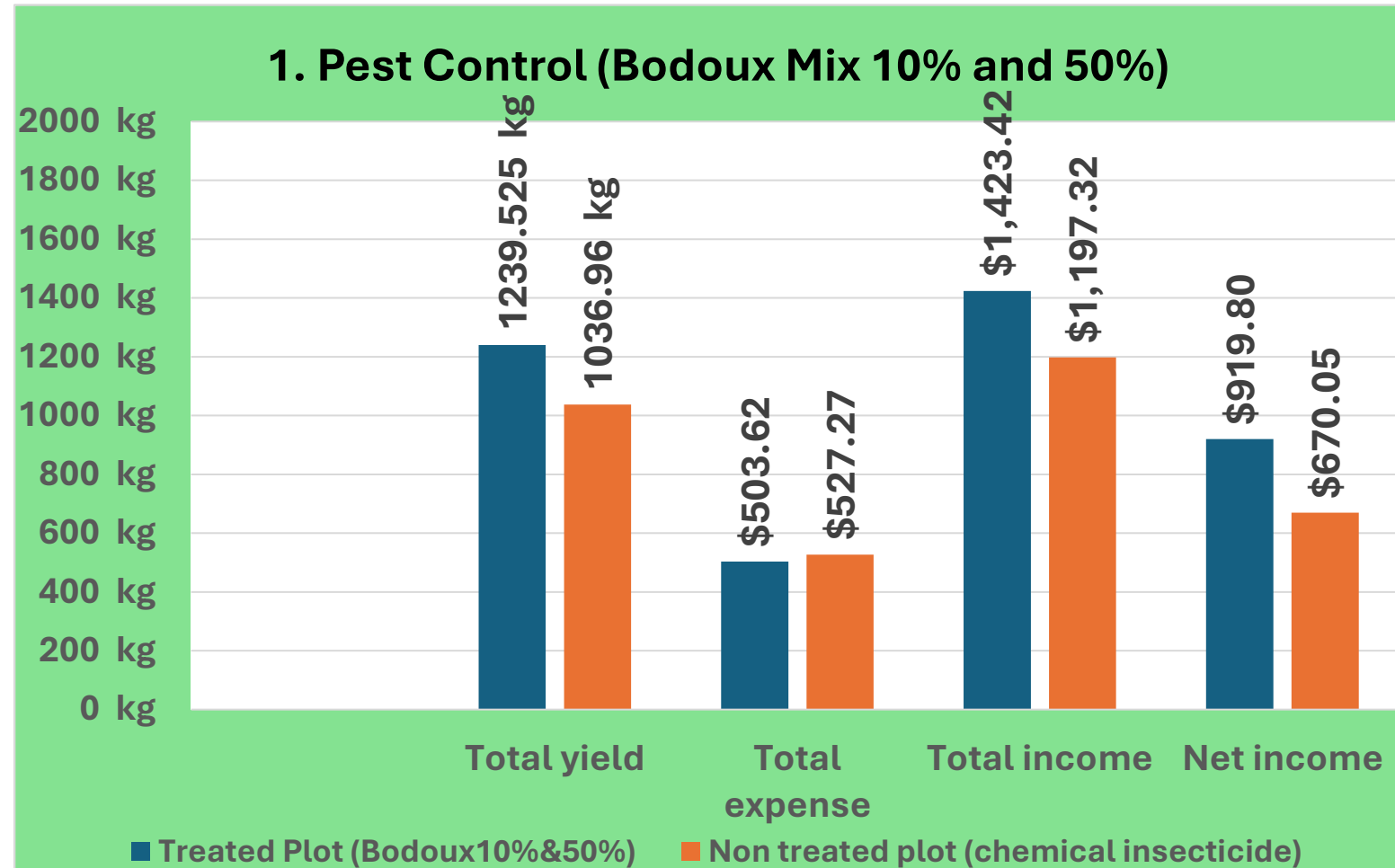
2. Reduce flower drop (Seaweed VS Chemical)



Overall, the treated plot demonstrates marginally improved outcomes compared to the non-treated plot and needs to spray seaweed in beginning in October every year for the cashew flower to boost the strong flowering for better fruits and net income.

Field monitoring data analysis follow to the link [Chart for field monitoring data analysis.](#)

V. DATA ANALYSIS RESULT ON RETURN ON INVESTMENT (CONTINUE)

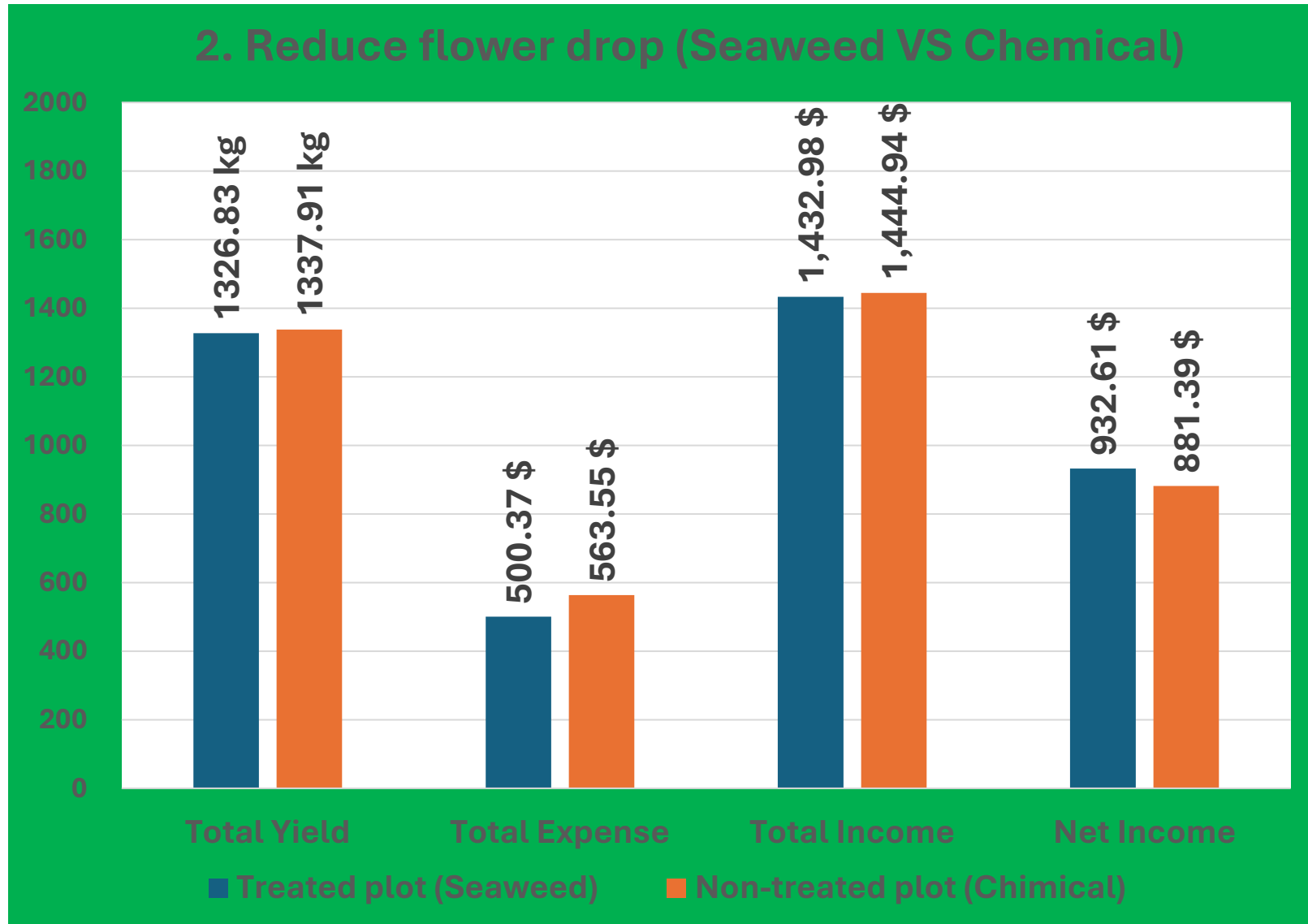


Overall, we comment that the farmers should use Bodoux Mix 10% and 50% to protect insects in climate resilience for better yield, net income and healthier for themselves .

V. DATA ANALYSIS RESULT ON RETURN ON INVESTMENT (CONTINUE)



This suggests that while chemical treatment yields marginally better results, seaweed treatment offers better cost efficiency and profitability.



Return on investment data analysis follow to the link [Table for return on investment data analysis.](#)

VI. Challenge and limitation

➤ Soil fertility

- ❑ pole digger machine is big and heavy – require two people.



➤ Pest control

- ❑ the capacity of bodoux mix 50% is limited on flower stage to chase mealy bug, thrip and worm.



➤ Reduce flower drop

- Agri-Smart's Seaweed

Is needed the farmers using it on time (before and after raining and dew fall.

Question and Answer





Thank you!