

and reduce the adverse effects of climate change.

Lack of studies on the drawbacks and resilience level of

Location: Chieng Chung commune, Mai Son district, Son La

Methods: Indicator-based assessment, divided into five

main dimensions, including social, economic, financial,

intercropping with fruit trees, and intercropping with both

03 models were assessed, namely, monocropping,

Strengthening climate resilience in coffee production in Chieng Chung commune, Mai Son district, Son La province

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Introduction:

of this method.

Materials/Methods:

province



Figure 1: Type of intercropped fruit and forest tree in the intercropping with both fruit and forest trees model



Figure 2: Economic benefit comparison between farming methods (VND/ha)

Conclusion/Perspectives:

fruit and forest trees

environmental, and institutional

Understanding the limitations of intercropping coffee farming can help identify solutions to tackle social, economic, and environmental challenges, enabling farmers to build more resilient systems, and take advantage of the benefits of intercropping practices to promote sustainable livelihoods over the long term.

Results/Discussion

- Monocropping farms have climate low resilience, while two intercropping methods show medium resilience.
- The productivity generated from growing coffee in intercropping with fruit and forest trees is 5% more than growing with fruit trees and almost 20% more than monocropping.
- No income was generated from forest trees yet, and fruit trees usually have low revenue due to poor vields and low selling values.
- Coffee monocropping and intercropping with fruit trees face moderate to severe challenges due to dry and acidic soil, pests, and diseases.
- In contrast, intercropped coffee trees with both fruit and forest trees face less difficulty.
- All coffee farmers are affected by frost
- Drought is a considerable threat to 94% of monocropping coffee farmers, intercropping methods are less susceptible, only 45% of farmers intercrop with fruit and forest trees and 58% of farmers intercropping with fruit trees are affected.



