


M&E REPORT ON GROWING STATUS OF TREES AFTER 08 MONTHS

- GROW FOR IT MODEL IN HOA BINH PROVINCE

I. General information



1. Selected areas to implement the model: 06 villages of Thach Yen commune, Cao Phong district, Hoa Binh province
2. Total area: 25ha
3. Number of households participating in GFI model: 22
4. Species of planted seedlings: Acacia Mangium, Chukrasia tabularis
5. Planting time: August 2021 (Planting season 2021)
6. Time period to collect information for report writing: May 05th 2022.
7. Date of report completion: May 12nd 2022

II. Growing status of forest of each household

NO	Farmers' name	Area (ha)	Planted time	Photos of trees after 8 months planting	Date taken	GPS point	Survival rate	Growing status
C1	Bui Van Bien	1,1	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 6.389899999999452...</p> <p>Longitude 105; 21; 23.1198999999990...</p> <p>Altitude 514.51713231418023</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges 1,0 – 1,4m - The perimeter of tree stumps ranges from 5 - 6cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C2	Bui Thi Nang	0,7	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 26.33990000000062...</p> <p>Longitude 105; 21; 23.1500000000023...</p> <p>Altitude 520.2174418604651</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges 0,8 – 1,2m - The perimeter of tree stumps ranges from: 4 - 6 cm - Sprouting rotations of the trees: 3 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C3	Quach Cong Bieu	1,7	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 37.53990000000032...</p> <p>Longitude 105; 21; 24.96000000000020...</p> <p>Altitude 583.14418066010421</p>	<p>In Dec 2021, 135 trees were destructed by of crickets which were killed by the household immediately after finding it. These dead or broken trees have been replaced by new trees. Currently, the survival rate is 100%.</p>	<ul style="list-style-type: none"> - The height of trees ranges 0,7 – 1,1 m - The perimeter of tree stumps ranges from: 4 – 5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.
C4	Bui Van Thich	1,5	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 20.00000000000001...</p> <p>Longitude 105; 21; 6.150000000000231...</p> <p>Altitude 637.73713337022684</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges 0,8 – 1,2m - The perimeter of tree stumps ranges from 5-7cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.



C5	Quach Thi Kiem	0,5	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 36.46000000000064</p> <p>Longitude 105; 21; 12.3800000000004...</p> <p>Altitude 642.53023332237922</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 0,7 – 1,0m - The perimeter of tree stumps ranges from: 3,5 – 5 cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.
C6	Dinh Thanh Hai	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 44.240000000000504</p> <p>Longitude 105; 22; 6.82000000000070...</p> <p>Altitude 430.93661137440756</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,2 – 1,7m - The perimeter of tree stumps ranges from: 7 – 9cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C7	Bui Van Canh	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 26.6600000000033...</p> <p>Longitude 105; 21; 9.24989999999525</p> <p>Altitude 506.45467224546724</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,0 – 1,5m - The perimeter of tree stumps ranges from: 5 – 7cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C8	Bui Van Quan	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 38; 3.11990000000534...</p> <p>Longitude 105; 20; 27.8900000000013...</p> <p>Altitude 328.73867403314915</p>	<p>In Dec 2021, 80 trees were destroyed by of crickets which were killed by the household immediately after finding it. These dead or broken trees have been replaced by new trees. Currently, the survival rate is 100%.</p>	<ul style="list-style-type: none"> - The height of trees ranges: 0,8 – 1,1m - The perimeter of tree stumps ranges from: 3,5 – 5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.

C9	Dinh Cong Tich	1,5	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 57.00990000000045...</p> <p>Longitude 105; 20; 25.65990000000027...</p> <p>Altitude 373.22372060857538</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 0,8 – 1,1m - The perimeter of tree stumps ranges from: 3,5 – 5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.
C10	Bui Thi Kien	1,4	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 59.25990000000046...</p> <p>Longitude 105; 21; 21.4500000000011...</p> <p>Altitude 352.01546860782531</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 0,9 – 1,2m - The perimeter of tree stumps ranges from: 4 – 6cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.



C11	Bui Van Chuc	0,8	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 38; 59.72990000000057...</p> <p>Longitude 105; 21; 33.2600000000009...</p> <p>Altitude 469.71951294132043</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 0,8 – 1,2m - The perimeter of tree stumps ranges from: 3,5 – 5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.
C12	Bui Van Hung	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 38; 54.75000000000000...</p> <p>Longitude 105; 21; 32.2100000000020...</p> <p>Altitude 342.3735658558972</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,0 – 1,4m - The perimeter of tree stumps ranges from: 5 – 7cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C13	Dinh Van Dau	1,1	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 43.3300000000016...</p> <p>Longitude 105; 21; 20.789899999974...</p> <p>Altitude 372.51937457511895</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,2 – 1,6m - The perimeter of tree stumps ranges from: 6 – 8cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C14	Quach Thi Hang	1,2	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 21.46000000000064...</p> <p>Longitude 105; 21; 7.90000000000232...</p> <p>Altitude 512.1557881773399</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,0 – 1,5m - The perimeter of tree stumps ranges from: 5 – 7cm - Sprouting rotations of the trees: 3 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C15	Bui Thi Dieu	0,9	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 15.6100000000006...</p> <p>Longitude 105; 21; 2.9298999999881...</p> <p>Altitude 509.99959935897436</p>	<p>In Dec 2021, 70 trees were destructed by of crickets which were killed by the household immediately after finding it. These dead or broken trees have been replaced by new trees. Currently, the survival rate is 100%.</p>	<ul style="list-style-type: none"> - The height of trees ranges: 0,9 – 1,2m - The perimeter of tree stumps ranges from: 4 – 6cm - Sprouting rotations of the trees: 3 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C16	Bui Van Khoi	0,8	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 11.3800000000047...</p> <p>Longitude 105; 20; 57.5200000000018...</p> <p>Altitude 529.22957983193282</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,2 – 1,5m - The perimeter of tree stumps ranges from: 5-7cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C17	Nguyen Van Quang	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 28.86000000000005...</p> <p>Longitude 105; 21; 0.570000000000069...</p> <p>Altitude 515.0852390852391</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,2 – 1,6m - The perimeter of tree stumps ranges from: 6-8cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C18	Bui Thi Hong	1,8	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 40.990000000000054...</p> <p>Longitude 105; 21; 0.190000000000022...</p> <p>Altitude 467.06332046332045</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,1 – 1,6m - The perimeter of tree stumps ranges from: 5-7 cm - Sprouting rotations of the trees: 4 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C19	Dinh Thi Quyen	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20: 37: 39.4799999999958...</p> <p>Longitude 105: 20: 42.3599999999986...</p> <p>Altitude 309.53585434173669</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 0,8 – 1,1m - The perimeter of tree stumps ranges from: 3,5 – 5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.
C20	Dinh Thi Loan	1,0	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20: 37: 37.6698999999935...</p> <p>Longitude 105: 20: 40.2700000000018...</p> <p>Altitude 311.68002003004506</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,1 – 1,3m - The perimeter of tree stumps ranges from: 4,5 – 6cm - Sprouting rotations of the trees: 3 - The leaves are glossy green, roots are strong - Trees grow well and evenly.

C21	Bui Thi Ha	1,5	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 36; 45.4100000000033...</p> <p>Longitude 105; 20; 26.6500000000023...</p> <p>Altitude 389.21664050235478</p>	100%	<ul style="list-style-type: none"> - The height of trees ranges: 1,0 – 1,3m - The perimeter of tree stumps ranges from: 4,5 – 6cm - Sprouting rotations of the trees: 3 - The leaves are glossy green, roots are strong - Trees grow well and evenly.
C22	Bui Van Tan	1,5	August 2021		05/05 /2022	<p>GPS</p> <p>Latitude 20; 37; 14.67990000000028...</p> <p>Longitude 105; 20; 57.4699000000025...</p> <p>Altitude 526.38275772526617</p>	<p>In Dec 2021, 120 trees were destructed by of crickets which were killed by the household immediately after finding it. These dead or broken trees have been replaced by new trees. Currently, the survival rate is 100%.</p>	<ul style="list-style-type: none"> - The height of trees ranges: 0,8 – 1,1m - The perimeter of tree stumps ranges from: 3,5 – 4,5cm - Sprouting rotations of the trees: 3 - Trees grow slower than other households implementing the GFI model due to nutrient-poor soil.

III. General assessment from households and technical consultants of Farmers' Union and Cooperatives

3.1 Feedbacks from households

- Growth and development of trees: Trees grow well and develop strongly. Compared with trees grown in previous years, trees in 2021 grow and develop more slowly, due to the influence of cold weather lasting from November 2011 to March 2022. Currently, the weather is warm again and rain has begun to appear, the tree has budded and entered a strong growth phase. Compared with trees grown at the same time, in the same geographical area of other households, GFI trees grow better (5-10 cm taller) with strong roots and healthy glossy green leaves. All households affirmed that GFI's trees grow well thanks to high quality seedlings, suitable planting density, and good tending techniques.
- Technical guidance from cooperatives, provincial People's Committees: All of the households are very satisfied when they receive full, enthusiastic, timely technical advice and guidance from technical staff of cooperatives and provincial People's Committees throughout the process from preparing the soil, to planting and tending trees. Especially, households whose trees were damaged by crickets in December 2021, together with technical staff, closely monitored to take remedial measures and plant new trees to replace the dead ones.
- Meaning of GFI afforestation under GFI model: 100% of households participating in GFI afforestation are very satisfied because they receive long-term interest-free loans to invest in afforestation. Besides, trees grow well to help protect the environment, water resource and help households improve their income in the future. All households are committed to implementing tree plantation under GFI model in accordance with the signed agreement.

3.2 Assessment from technical consultants of Cooperatives and Farmers Union

- Trees of households C3, C8, C15, C22 were damaged by crickets in December 2021. This phenomenon has been detected and controlled by households and technicians in time and thoroughly, which has helped reduce great damage to trees. These dead or broken trees have been replaced by new trees and now the trees are growing and developing well.
- Trees of households C3, C5, C8, C9, C10, C11, C19, C22 grow and develop slower than other households implementing the GFI model due to nutrient-poor soil.
- Due to the impact of cold weather lasting from November 2021 to March 2022, the growth and development rate of GFI trees in the 2021 afforestation season is about 10% slower than that in 2019 and 2020. Currently, the weather in the planting area is starting to be sunny, warm and rainy, plus the roots of the plants that have developed, the trees have sprouted new buds and entered the strong growth phase.
- Currently, the survival rate of the trees is 100%. The trees that did not die after the severe cold weather grew again in the warm weather, which can confirm that the selected trees are suitable for the soil and climate in the planting area.

- 19 out of 22 households carried out 4 times of clearing weeds, the remaining three households cleared weeds 3 times and will conduct the 4th time right in May for plants to grow and develop.
- Forest planting households have properly, sufficiently and promptly applied technical measures guided by technical staff.
- The area that GFI plantation model implemented in 2020 and 2021 has now become a place to visit and study for afforestation households in the area. Households implementing the GFI model have also actively shared techniques and experiences with surrounding households.

V. Technical interventions for forests in the following year

- Regularly clear weeds so as not to negatively affect the growth and development of trees
- Prune for the first time at the end of 2022 so that the trunk can absorb nutrients as much as it can. That helps the tree grow straight strongly
- Take measures to prevent buffaloes and goats from damaging trees
- take measures to prevent forest fires, especially in hot summer and dry winter
- Regularly visit the forest plot to detect pathogens that cause damage to trees.

IV. Proposals

- DFE/GFI disburse the last installment of 10% of the total budget approved in the signed agreement.
- DFE/GFI continue to support many other households in term of afforestation capital investment in the future.

**CONFIRMATION OF
HOA BINH FARMERS' UNION**

**Information collection and report writing unit
XUAN PHONG COOPERATIVE**

**Vice chairman
NGUYEN THI HUONG HAI**

**Director
BUI DUY PHUOC**

