Southeast Asia Climate-Smart Villages AR4D Sites: 2017 Inventory CGIAR



RESEARCH PROGRAM ON Climate Change, Agriculture and **Food Security**





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Total practices: 47

Practices with mitigation potential: 13

 \mathbf{Q} Gender impact assessed for: 35

 ${f Q}$ Potential gender impact known for: **35**

CSA sub-practice	Mitigation potential	Country	CSV sites	Crop	Tested	Evaluated	# HH1	Gender assessed	Potential gender impacts
		Vietnam	Ma	Acacia	Х	-	20	-	-
Alleycropping (N-fixing trees)	Х	Philippines	Guinayangan	Fruit (Others), Pepper, Coffee, Cacao	Х	-	112	-	-
Alleycropping (non N-fixing trees)	-	Vietnam	My Loi	Fruit trees, annual crops/ legumious crops, vegetables, mulching with rice straw, palm leaves	Х	Х	7	Х	Х
Bank cultivation	-	Vietnam	Tra Hat	vegetables	Х	-	5	-	-
Biochar	Х	Vietnam	My Loi	Peanut	Х	Х	8	Х	Х
Biogas	Х	Vietnam	My Loi	Biogas from pig raising	Х	Х	3	Х	Х
Boundary planting (living fences or hedgerows)	Х	Cambodia Phillipines	Rohal Suong Guinayangan	Fibre and Wood Root Crops, Fruit trees	X X	X -	10 112	× -	× -
Boundary planting (windbreaks and shelterbelts)	-	Phillipines	Guinayangan	Fruit trees, coffee, cacao	Х	-	112	-	-
Community-based		Vietnam	Tra Hat	Rice	Х	-	5	-	-
seed production	-	Laos	Pailom	Rice	Х	-	10	-	-
			My Loi	Tomato, egg plants,	-	Х	2	X	X
Compost	-	Vietnam	Tra Hat	Use rice straw/	Х	-	3	-	-
			Tra Hat	Re-use home organic waste	Х	-	30	-	-
Crop residue (fodder)	-	Phillipines	Guinayangan		Х	X	273	х	Х
Crop residue incorporation	-	Cambodia	Rohal Suong	Cereals (rice)	Х	-	15	Х	Х
Crop rotation (mixed legume/ non-legume)		Vietnam	My Loi	Peanut + cassava	-	Х	2	х	Х
Crop type change - Tree to more resistant crop	-	Vietnam	My Loi	Теа	Х	Х	2	Х	Х







CSA sub-practice	Mitigation potential	Country	CSV sites	Crop	Tested	Evaluated	# HH1	Gender assessed	Potential gender impacts
		Vietnam	My Loi	Fermented feed based on available agricultural residue	-	Х	1	Х	Х
Diet management	-	Philippines	Guinayangan	Goats, pigs, fodder grass, fodder legumes, napier grass, other fodders, fodder trees	Х	Х	273	Х	Х
Diet management (mechanically processed food)	-	Phillipines	Guinayangan	Pigs, cassava	Х	Х	273	Х	Х
Energy switching	Х	Vietnam	Ma	Rice straw and saw dust from processed forest trees	Х	Х	4	Х	Х
Farmer Managed Natural Regeneration	Х	Cambodia	Rohal Suong	Fodders	Х	Х	70	-	-
Green manure	х	Phillipines	Guinayangan	Upland and Lowland Rice	Х	-	8	Х	Х
		Vietnam	Ma	Cassava/cattle	Х	Х	80	Х	Х
Improved cook stove	Х	Vietnam	My Loi	Crop residues	-	Х	16	Х	Х
Improved sty/cage	-	Vietnam	My Loi	Goat	-	Х	1	Х	Х
	-	Cambodia Phillipines	Rohal Suong Guinayangan	Drought tolerant rice Drought tolerant lowland rice	X X	X X	25 64	X X	X X
Improved varieties				Improved Seeds (Peanut, Lowland Rice and Upland	Х		173	Х	Х
				Salinity tolerant rice	Х	Х	56	Х	Х
Intercropping				Madre Kakaw	Х	-	3	Х	Х
(Legume/Legume)	-	Phillipines	Guinayangan	Peanut and mungbean	Х	Х	13	-	-
Intercropping (mixed legume/ non-legume)	-	Vietnam	Tra Hat	vegetables + ginger + beans	х	-	5	-	-
Irrigation (drip)	_	Vietnam	My Loi	Fruit trees and pepper	-	х	1	x	Х







CSA sub-practice	Mitigation potential	Country	CSV sites	Crop	Tested	Evaluated	# HH1	Gender assessed	Potential gender impacts
		Phillipines	Guinayangan	Fruit Trees, Lowland	Х	-	1	Х	Х
				Rice Manure collection and storage (Pigs, Goat)	Х	Х	273	Х	Х
Manure	-	Vietnam	My Loi	Composting animal manure and crop residues	Х	Х	42	Х	Х
				EM bed for pig and chicken	Х	Х	3	Х	Х
				Vermiculture	Х	Х	3	Х	Χ
More complex rotations	-	Vietnam	My Loi	Peanut/ beans/ sweet potato+maize or peanut/sugarcane	-	Х	25	Х	Х
		Phillipines	Guinayangan	Pineapple, cacao, coffee, Fruit(Others) Guyabano, Mango,	Х	-	112	-	-
Mulching	Х	Vietnam	My Loi	Cittrus (Leguminous plants) Fruit trees, Arachis pintoi, mulching with rice straw, plam	-	Х	1	Х	Х
				(Plastics) Water melon (heat- tolerant) roate with legumious crops, tea (storm resistant	-	Х	1	Х	Х
Multistrata agroforestry	X	Vietnam	My Loi	Black pepper with storm-resistant and shade trees (local Mac tree), mulching with rice straw, plam	-	X	2	X	X
		Phillipines	Guinayangan	leaves Coconut, Fruit Trees, Coffee, Cacao	Х	-	112	-	-
No or zero tillage	Х	Phillipines	Guinayangan	Upland Rice	Х	-	16	-	-
Non-legume/ non-legume crop intercrop	_	Vietnam	My Loi	Maize + sweet potato, maize + sweet potato+ sugarcane	-	x	26	x	X
Non-legume/ non-legume crop rotation	-	Cambodia	Rohal Suong	Vegetable	х	Х	10	×	Х
Pasture management	-	Philippines	Guinayangan	Pigs, fodder grass, fodder legumes, napier grass, fodder trees	X	×	273	Х	Х
Plant-clinics	-	Vietnam	Tra Hat	Rice , vegetables	-	X	36	-	-







CSA sub-practice	Mitigation potential	Country	CSV sites	Crop	Tested	Evaluated	# HH1	Gender assessed	Potential gender impacts
Parkland (scattered trees)	-	Vietnam	My Loi	Orange, local mandarine, jackfruit, pepper, acacia	-	Х	2	Х	X
Rice Management (Low external input/planting distance)	-	Vietnam	Ma	Paddy rice	Х	Х	10	Х	X
Rice management (mid seasonal drainage)	-	Vietnam	Tra Hat	Rice	Х	-	10	-	-
Rice management (SRI)	Х	Vietnam Phillipines	Tra Hat Guinayangan	Rice Lowland rice	X X	×	10 64	×	x
Silvopasture	_	Vietnam	My Loi	Fruit trees, Guinea grass, mulching with rice straw, plam leaves	-	Х	1	Х	X
		Philippines	Guinayangan	Coconut, Fruit tress	Х	-	112	-	-
Smart-pest management (reduced pesticides and herbicides)	Х	Lao PDR Cambodia	Ekxang Rohal Suong	Rice, vegetables Rice Vegetables	X X X	× X	71 23 274	- X X	X X
Tree management (Croppicing/tree pruning)	-	Phillipines	Guinayangan	Fruit trees, Coffee Cacao, Coffee, Cacao	Х	Х	112	Х	Х
Tree management (tree pruning applied as much N-fixing)	_	Phillipines	Guinayangan	Fruitrees	Х	_	112	-	-
Urea application	-	Phillipines	Guinayangan	Upland rice and corn	Х	-	24	-	-
Water harvesting (cisterns and tanks)	-	Lao PDR	Pailom	Plant products	Х	-	-	-	-
Water harvesting (community ponds)		Lao PDR Cambodia	Pailom Rohal Suong	Plant products Vegetable	X X	×	10 50	X X	X X
Water harvesting (microcatchment)	-	Phillipines	Guinayangan	Fruit trees, coffee, cacao	Х	Х	112	Х	Х
Water harvesting		Lao PDR	Ekxang	Vegetables	-	Х	-	-	-
(roof top)	-		Pailom	Plant products	х	-	-	-	-
Zero grazing or Cut and carry	-	Vietnam Phillipines	Ma Guinayangan	Goats	X X	X X	80 273	X X	X X







Agro-Met service	Country	CSV sites	Tested	Evaluated	# HH	Potential gender impacts
Contract	Vietnam	My Loi	Х	-	213	-
Seasonal forecast	Cambodia	Rohal Suong	X	-	10	-
Agroadvisories on fertilizer and pesticide application	Vietnam	My Loi	Х	-	213	-
Agroadvisories on varieties applied under the forecasted information	Vietnam	My Loi	X	-	213	-
	Vieterer	My Loi	Х	-	213	-
	Vietnam	Tra Hat	Х	-	182	-
Daily forecast	a ily forecast Lao PDR Cambodia	Ekxang	Х	-	216	-
		Pailom	Х	-	100	-
		Rohal Suong	Х	-	200	_

Market services	Country	CSV sites	Available	Tested	Evaluated	# HH	Gender assessed	Potential gender impacts
Payment for Ecosytem Services: Forest	Phillipines	Guinayangan	Х	-		3,000	-	-
Price support	Vietnam	Ma	X		-	200	-	
Product Certification	Vietnam	Ma	X	-	-	12	-	-







Financial services	Country	CSV sites	Available	Tested	Evaluated	# HH	Gender assessed	Potential gender impacts
Canacity building/Technical	Vietnam	My Loi	Х	-	-	-	-	-
assistance (by dev agencies/	vietnam	Tra Hat	Х	-	-	-	-	-
programs)	Lao PDR	Rohal Suong	Х	-	-	30	-	-
		Ma	Х	-	-	-	-	-
	Vietnam	My Loi	Х	-	-	-	-	-
Individual Bank savings		Tra Hat	Х	-	-	-	-	-
		Ekxang	Х	-	-	-	-	-
	Lao PDR	Pailom	Х	-	-	-	-	-
		Ma	Х	-	-	20	-	-
	Vietnam	My Loi	Х	-	-	-	-	-
Individual (short term)		Tra Hat	Х	-	-	-	-	-
Bank loans	Lao PDR	Ekxang	Х	-	-	-	-	-
		Pailom	Х	-	-	-	-	-
	Cambodia	Rohal Suong	Х	-	-	90	-	-
		Ma	Х	-	-	-	-	-
	Vietnam	My Loi	Х	-	-	-	-	-
Individual (long term) Bank loans		Tra Hat	Х	-	-	-	-	-
	Lao PDR	Pailom	Х	-	-	-	-	-
	Cambodia	Rohal Suong	Х	-	-	70	-	-
		Ma	Х	-	-	-	-	-
Informal individual	Vietnam	My Loi	Х	-	-	-	-	-
		Tra Hat	Х	-	-	-	-	-
credits/loans		Ekxang	Х	-	-	-	-	-
		Pailom	Х	-	-	_	-	-
	Cambodia	Rohal Suong	Х	-	-	80	-	-





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Financial services	Country	CSV sites	Available	Tested	Evaluated	# HH	Gender assessed	Potential gender impacts
		Ma	Х	-	-	100	-	-
	Vietnam	My Loi	Х	-	-	-	-	-
		Tra Hat	Х	-	-	-	-	-
Informal saving groups		Ekxang	Х	-	-	-	-	-
	Lao PDR	Pailom	Х	-	-	-	-	-
	Cambodia	Rohal Suong	X	-	-	20	-	-
	Phillipines	Guinayangan	X	-	-	35	-	-
Group (short term) Bank	Vietnam	Ma	Х	-	-	100	-	-
loans	Cambodia	Rohal Suong	X	-	-	70	-	-
Group (long term) Bank loans	Lao PDR	Ekxang	Х	-	-	-	-	-
Informal group loans	Vietnam	My Loi	X	-	-	23	-	-
	Phillipines	Guinayangan	Х	-	-	133	-	-

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Acknowledgments

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Main crops and livestock

+@→ Specific

Food: rice

Food/cash: maize, vegetables, pomelo, chicken, pig **Cash:** cassava, fruit trees, forest trees, goat, cow

Climatic conditions



	Parameter	Amount	Narrative
	Total annual P	1.776 mm	In a single rainy season of 1.395 mm (May – Sep) and a dry season of 381 mm (Oct-Apr)
0	Max # of consecutive dry months	6 months (< 100 mm)	
Ш	Max T rainy season	32.6°C	
•	Max T dry season	29.2°C	
	Highest Tmin	24.4°C	June, August

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Climate-related risks

Prolong droughts, heavy rains, unusual floods, decline of natural flows, landslides, severe and long cold and hot spells, typhoon, soil erosion, land degradation, water pollution and GHG emission from current productions systems at high level.

Areas of climatic similarity



Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV

Source: www.ccafs-analogues.org



Flagship projects

- Innovative approaches and Upscaling CSA in SEA
- Integrated agricultural technologies for enhanced adaptive capacity and resilient livelihoods in CSVs (CIAT)

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Partners



CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez and Julian Ramirez-Villegas

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Main crops and livestock +@- Specific

Food: rice

Food/cash: peanut, orange, citrus, sweet potato, cassava, green bean, maize, vegetables, chicken, pig, cow, goat

Cash: Acacia, Eucalyptus, tea, pepper

Climatic conditions



	Parameter	Amount	Narrative
••••	Total annual P	2.884 mm	In a single rainy season of 1.621 mm (Sep – Nov) and a dry season of 1263 mm (Dec-Aug)
0	Max # of consecutive dry months	3 months (< 100 mm)	
Ш	Max T rainy season	30.7ºC	
•	Max T dry season	33.9ºC	
	Highest Tmin	26.1°C	June

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Climate-related risks

Unusual extreme weather events: droughts, flashfloods, cold spells, hot spells and storm/typhoons. Also water scarcity and poor soil quality.

My Loi-CSV

17.98°N 106.15°E

Areas of climatic similarity



Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV $\,$

Source: www.ccafs-analogues.org



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Main crops and livestock +@→ Specific

April

Food/cash: rice, vegetables, chicken, duck Cash: pig, python, frog

Climatic conditions



	Parameter	Amount	Narrative
	Total annual P	2.023 mm	In a single rainy season of 1.208 mm (Jul – Oct) and a dry season of 815 mm (Nov-Jun)
•	Max # of consecutive dry months	5 months (< 100 mm)	
<u>I</u>	Max T rainy season	30.2°C	
	Max T dry season	31.6ºC	

*CCAFS Community level baseline (2014), Situation Analysis (2015)

24.6°C

Highest Tmin

Climate-related risks

Unusual extreme weather events: floods, delays of rainy season, salinity intrusion.

Tra Hat-CSV

Areas of climatic similarity



Climatic similarity

Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV

Source: www.ccafs-analogues.org



Flagship projects

- Innovative approaches and Upscaling CSA in SEA
- CSVs in the Mekong Basin: Catalyzing Roll-out of **Adoption**

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Main crops and livestock +@+ Specific

Climate-related risks

Food/cash: rice, maize, vegetables, pig, chicken, ducks **Cash:** cow, forest trees

Droughts, long dry season and delay of rainy season, also low soil fertility

Climatic conditions



Source: www.worldclim.org

	Parameter	Amount	Narrative
•••	Total annual P	1.478 mm	In a single rainy season of 883 mm (Jul – Sep) and a dry season of 595 mm (Oct-Jun).
•	Max # of consecutive dry months	7 months (< 100 mm)	
Ш	Max T rainy season	32.2°C	
•	Max T dry season	35.2°C	
	Highest Tmin	24.4°C	June

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Areas of climatic similarity



Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV



Flagship projects

- Innovative approaches and Upscaling CSA in SEA
- CSVs in the Mekong Basin: Catalyzing Roll-out of Adoption

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Main crops and livestock

+@→ Specific

Food: rice Food/cash: maize, vegetables, beans, fruits, pig, chicken, ducks, fish Cash: cassava, cow, forest trees

Climatic conditions



	Parameter	Amount	Narrative
	Total annual P	2.136 mm	In a single rainy season of 1.294 mm (Jun – Aug) and a dry season of 842 mm (Sep-May).
J	Max # of consecutive dry months	7 months (< 100 mm)	
	Max T rainy season	31.8°C	
	Max T dry season	35.2°C	
	Highest Tmin	24.4°C	June

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Climate-related risks

Unusual extreme weather events: floods, delay of rainy season.

Areas of climatic similarity



Climatic similarity

Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV



2017: Field testing of CSA portfolio and # of households involved



Flagship projects

- Innovative approaches and Upscaling CSA in SEA
- <u>CSVs in the Mekong Basin: Catalyzing Roll-out of</u> <u>Adoption</u>

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CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez and Julian Ramirez-Villegas

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Investing in rural people



Main crops and livestock +@+ Specific

Food: rice, maize, soybean, sweet potato, vegetables **Food/cash:** rice, fruit trees, natural fish, pig, chicken **Cash:** corchorus

Climate-related risks

Unusual extreme weather events: floods, delays of rainy season.

Climatic conditions



	Parameter	Amount	Narrative
** *	Total annual P	1.252 mm	In a single rainy season of 433 mm (Sep-Oct) and a dry season of 819 mm (Nov-Aug)
J	Max # of consecutive dry months	6 months (< 100 mm)	
	Max T rainy season	31.2ºC	
	Max T dry season	35.4°C	
	Highest Tmin	24.5°C	May, June

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Areas of climatic similarity



Very low similarity Low similarity Moderate similarity High similarity

Areas whose future projected climate (by 2030) is similar to the current climate in this CSV



Flagship projects

- Innovative approaches and Upscaling CSA in SEA
- CSVs in the Mekong Basin: Catalyzing Roll-out of **Adoption**

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Main crops and livestock

+@→ Specific

Food: Rice Food/cash: Maize, Banana, Peanut, Vegetables, Chicken, Pig, Cattle Cash: Coconut

Climatic conditions



	Parameter	Amount	Narrative
	Total annual P	2.710	In a single rainy season of 1.192 mm (Oct – Dec) and a dry season of 1518 mm (Jan-Sep).
J	Max # of consecutive dry months	2 months	
	Max T rainy season	30.5 °C	
	Max T dry season	32.3 °C	
	Highest Tmin	23.7	Jun, Aug months

*CCAFS Community level baseline (2014), Situation Analysis (2015)

Climate-related risks

Unusual extreme weather events: storm/typhoons

Areas of climatic similarity



Guinayangan CSV 18.00°N 106.15°E



Areas whose future projected climate (by 2030) is similar to the current climate in this CSV

Source: www.ccafs-analogues.org



Earth, led by the International Center for Tropical Agriculture (CIAT). CCAFS brings to scale climate smart agricultural practices, technologies and institutions which contribute to increased food and nutritional security, low emissions development, sustainable landscapes, and increased gender equity.

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