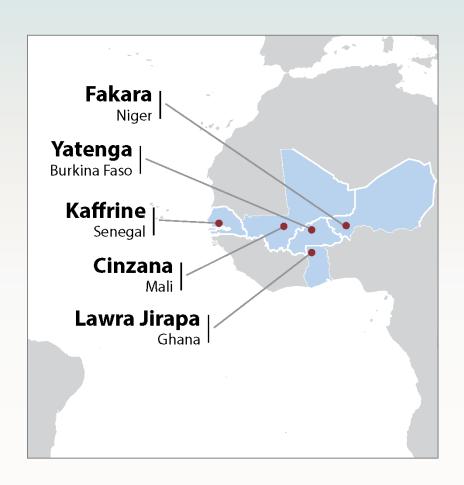
West Africa Climate-Smart Villages AR4D sites: 2016 inventory



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security

























Citation

Bonilla-Findji O, Ouedraogo M, Partey ST, Dayamba SD, Bayala J, Zougmoré R. 2017. West Africa Climate-Smart Villages AR4D sites: 2016 Inventory. Wageningen, The Netherlands: CGIAR Research Program on Climate Change, Agriculture and Food Security (CCAFS). Available online at: www.ccafs.cgiar.org



Inventory of CSA practices in West Africa's Climate-**Smart Villages**





Total Practices: 22

.... with mitigation potential: 6





Gender impact assessed for $\mathbf{0}$ Potential gender impact known for $\mathbf{4}$

CSA sub-Practice		Country	CSV AR4D sites	Сгор						
Crop Rotation	-	Ghana	Lawra-Jirapa	Maize, cowpea	-	-	х	61	-	-
Farmer Managed Natural Regeneration (general)	х	Burkina Faso	Yatenga	Ziziphus mauritiana, Balanites aegyptiaca, Sclerocarya birrea, Acacia nilotica, Acacia seyal, Piliostigma reticulatum, Adansonia digitata	х	-	-		-	х
		Niger	Fakara	Millet, sorghum, cowpea, peanut, hibiscus	x	-	-		-	х
		Senegal	Kaffrine	Maize, millet, groundnut	-	-	x	20	-	x
mproved Varieties	-	Ghana	Lawra-Jirapa	Maize, cowpea , soybean	х	-	-		-	
•		Burkina Faso	Yatenga	Cowpea, Sesame, millet	х	-	-	184	-	-
		Mali	Cinzana	Sorghum, millet, sesame, fonio	x	-	-		-	-
		Niger	Fakara	Millet, Sorghum, cowpea, okra, Sena obtusifolia	х	-	-		-	-
		Senegal	Kaffrine	Maize, millet	-	-	x	20	-	-
mproved Breed (Poultry)	-	Niger	Fakara	Chicken	Х	-	-	20	-	Х
		Senegal	Kaffrine	Chicken	х	-	-	20	-	-
norganic Fertilizer	-	Senegal	Kaffrine	Maize, millet	-	-	х	20	-	-
Integrated Nutrient Management	х	Ghana	Lawra-Jirapa	Maize, cowpea	-	-	х	61	-	-
		Burkina Faso	Yatenga	Millet and Cowpea	x	-	-		-	-
		Senegal	Kaffrine	Maize, millet	-	-	Х	20	-	-
ntegrated Nutrient Management Microdosing)	х	Mali	Cinzana	sorghum, millet	-	-	х		-	-
ntercropping	-	Ghana	Lawra-Jirapa	Jathropha, cowpea	х	-	-		-	
		Burkina Faso	Yatenga	Millet and Cowpea	х	-	-		-	-
		Mali	Cinzana	Sorghum, millet, fodder	х	-	-		-	-
				crops (groundut, cowpea)						
		Niger	Fakara	Sorghum, Millet, cowpea	x	-	-		-	-
ntercropping (Agroforestry)	-	Mali	Cinzana	Jatropha based agroforestry with Sorghum and millet	Х	-	-		-	-
Macro/Micro catchments	-	Burkina Faso	Yatenga	Millet, sorghum	Х	-	-		-	-
Mulching	х	Ghana	Lawra-Jirapa	Yam, vegetables	х	-	-		-	
No/Reduced Tillage	х	Ghana	Lawra-Jirapa	Maize, soybean, cowpea	х	-	-		-	_
		Senegal	Kaffrine	Maize, millet	-	-	x	20	-	-
New cropping system & additional crops (Home gardens)	-	Ghana	Lawra-Jirapa	Soybean, vegetables	-	-	Х		-	х
		Senegal	Kaffrine	Water melon, okra, mint and pepper	-	-	x	110	-	x
Organic Fertilizer	-	Ghana	Lawra-Jirapa	Maize, soybean	-	-	х	61	-	-
5		Burkina Faso	Yatenga	Millet, sesame, Cowpea	x	_	-	- =	-	_
				, , F = -						



Inventory of CSA practices in West Africa's Climate-Smart Villages





CSA sub-Practice	Mitigation potential	Country	CSV AR4D sites	Crop	Impleme nted	Evalua ted	Impl. & Evaluated	# of Hholds	Gender Assessed	Potential gender impacts
Tree Planting	x	Ghana	Lawra-Jirapa	Magnifera indica, Anacardium occidentale, Tectonagrandis Teak, Maringa oleifera	x	-	-		-	х
		Burkina Faso	Yatenga	Adansonia digitata (baobab), Moringa oleifera, Acacia senegal, A. nilotica and Cassia senna.	x	-	-	300	-	Х
		Mali	Cinzana	Gliricidia sepium, Moringa olifera, Adansonia digitata	x	-	-		-	Х
		Niger	Fakara	Moringa,	x	-	-		-	х
		Senegal	Kaffrine	Ziziphus mauritiana, Adansonia digitata, Tamarindus indica, Psidium guajava and Annona muricata	-	-	х	300	-	х
Water Harvesting (Bund)	-	Niger	Fakara	Millet, Sorghum	х	-	-		-	-
Water Harvesting (Earth bund)	-	Ghana	Lawra-Jirapa	Maize	-	х	-	61	-	-
Water Harvesting (Contour ridging)	-	Mali	Cinzana	sorghum, millet	-	-	х		-	-
Water Harvesting (Half moon)	-	Niger	Fakara	Millet, sorghum	х	-	-		-	-
Water Harvesting (Planting pits)	-	Ghana	Lawra-Jirapa	Maize	х	-	-		-	-
		Burkina Faso	Yatenga	Millet and Cowpea	x	-	-		-	-
		Niger	Fakara	Sorghum	x	-	-		-	-
Water Harvesting (Ties ridges)	-	Ghana	Lawra-Jirapa	Maize	-	х	-	61	-	-



Inventory of climate information services in West Africa's Climate-Smart Villages





Agro-Met Service	Country	CSV AR4D site	Agro-Met Service Implemented	Agro-Met Service Evaluated	# of households	Potential gender impacts known
Agroadvisories on	Ghana	Lawra-Jirapa	-	-		=
fertilizer and pesticide	Burkina Faso	Yatenga	-	-		-
application	Mali	Cinzana	-	-		-
	Niger	Fakara	-	-		-
	Senegal	Kaffrine	-	-		-
Agroadvisories on	Ghana	Lawra-Jirapa	Х	-	641	-
varieties applied under the forecasted	Burkina Faso	Yatenga	х	-	110	-
information	Mali	Cinzana	-	-		-
	Niger	Fakara	-	-		-
	Senegal	Kaffrine	-	х	194	X
Daily forecast	Ghana	Lawra-Jirapa	-	X	641	-
,	Burkina Faso	Yatenga	-	х	110	-
	Senegal	Kaffrine	-	X	194	Х
Seasonal forecast	Ghana	Lawra-Jirapa	-	х	641	-
	Burkina Faso	Yatenga	-	х	110	-
	Mali	Cinzana	-	-		-
	Niger	Fakara	-	-		-
	Senegal	Kaffrine	-	х	194	Х
Weekly/10 day forcast	Ghana	Lawra-Jirapa	-	X	641	-
Treetily, 10 day foreust	Burkina Faso	Yatenga	-	X	110	-
	Senegal	Kaffrine	-	x	194	х



Inventory of climate information services in West Africa's Climate-Smart Villages



RESEARCH PROGRAM ON Climate Change, Agriculture and Food Security



Market Services	Country	CSV AR4D site	Available	Implemented	Evaluated	# of househol ds	Gender Assessed	Potential gender impacts known
Input subsidies	Ghana	Lawra-Jirapa	Х	-	-	-	-	-
	Burkina Fas	Yatenga	Х	-	-	-	-	-
Market information	Ghana	Lawra-Jirapa	Х	Х	-	641	-	-

Financial Services	Country	CSV AR4D site	Available	Implemented	Evaluated	# of households	Gender Assessed	Potential gender impacts known
Government Subsidies	Burkina Faso	Yatenga	Х	-	-		-	Х
Informal individual credits/loans	Ghana	Lawra-Jirapa	Χ	-	-		-	-
	Burkina Faso	Yatenga	Х	-	-		-	-
Informal group loans	Ghana	Lawra-Jirapa	Χ	-	-		-	-
Informal saving groups	Ghana	Lawra-Jirapa	Χ	-	-		-	-
	Mali	Cinzana	Χ	-	-		ı	-
	Niger	Fakara	Χ	-	-		-	-
	Senegal	Kaffrine	Χ	-	-		ı	-
Weather-based insurance	Ghana	Lawra-Jirapa	Χ	-	-		-	-

Contacts

CCAFS Regional Program Leader: Robert Zougmoré (r.zougmoré@cigar.org)

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org)

Project Leader
Jules Bayala (ICRAF)
(j.Bayala@cigar.org)

Acknowledgments

This CSV inventory was implemented as part of CCAFS Flagship 2 activities under the global and regional coordination of Osana Bonilla-Findji and Mathieu Ouedraogo, respectively. We would like to acknowledge the valuable support of our local partners and focal points from each site: André Babou Bationo (INERA), Saaka Buah (CSIR/SARI), Kalifa Traoré (IER), Abasse Tougiani (INRAN) and Diaminatou Sanogo (ISRA).

Climate-Smart Village Yatenga (BURKINA FASO)





















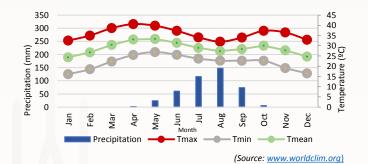


♦ Tibtenga and Ramdolla villages

Main crops and livestock +∅→ Gender specific

- Food/Cash: Millet, Cowpea, Sorghum, Maize (), Goat, Chicken
- Cash: Sesame, Onion Cow/Oxen , Sheep, Donkey 7

Climatic conditions



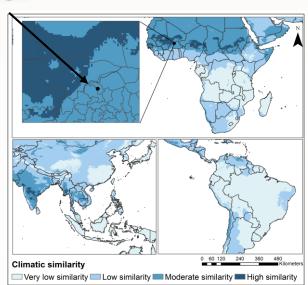
	Parameter	Amount	Narrative
(,,,)	Total annual P	509 mm	In a single rainy season of 390 mm (Jul–Sep) and a dry season of 119 mm (Oct-Jun).
W.O.	Max # of consecutive dry months	10 months (< 100 mm)	
Q	Max T rainy season	33.4 °C	
	Max T dry season	39.7 °C	
	Highest min T	26.2 °C	May

Climate-related risks

High rainfall variability, drought spells during the cropping season and low levels of soil fertility. Widespread soil erosion. Nearly 70% of the land is unsuited for agriculture purposes.

Areas of climatic similarity





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

(Source: www.ccafs-analogues.org)

Climate-Smart Village Yatenga (BURKINA FASO)

















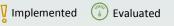








Field testing and # of farmers involved (2016)



Implemented & Evaluated

U Mitigation potential

(Not CCAFS)

Gender aspect assessed

▲ Available in Site ♀ Potential gender impact

CSA Practices



Agro-climatic services



Financial services



Market incentives



Tree planting (Moringa, Baobab, Acacia)

300 👬

Seasonal forecast Daily forecast

Meekly/10 days

Agro-advisories on

fertilizer & pesticide

√ 📤 Agro- advisories on 110 👬

varieties applied under forecasted information

forecast

Informal - individual

Natural Regeneration (Ziziphus mauritiana, Balanites aegyptiaca, Sclerocarya birrea...)

 ▼ Improved Varieties (Cowpea, Sesame, Millet)

Planting pits (Millet and Cowpea)

Organic Fertilizer

Intercropping

Integrated Nutr. Mngt

Macro/Microcatchments

credits/loans

♀▲ Gov. Subsidies

Input subsidies

Flagship projects

- Regional/National synthesis, engagement and support -P255
- Building resilient agro-sylvo-pastoral systems through PAR P34
- Capacitating African Smallholders with Climate Advisories and Insurance P46

Partners



- **ICRISAT**
- **ICRAF**
- **IUCN**
- **INERA**
- **Direction Nationale** de la Météorologie

Contacts

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org) **Project Leader** Jules Bayala (ICRAF) (j.bayala@cigar.org)









CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez-Toro, Julian Ramirez-Villegas, Mathieu Ouedraogo and André Babou Bationo.

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Climate-Smart Village Lawra-Jirapa (Ghana)















♦ Doggoh and Bompari villages

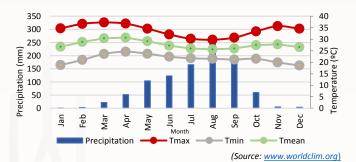
Main crops and livestock + (→ Gender specific

- Food/Cash: Millet ,Sorghum ,Maize ,Yam ,Yam ,
- Cash: Groundnut 🔾, Goat, Sheep, Cow 🔿

Climate-related risks

High rainfall variability, rainfall more erratic, more drought spells. Land degradation

Climatic conditions

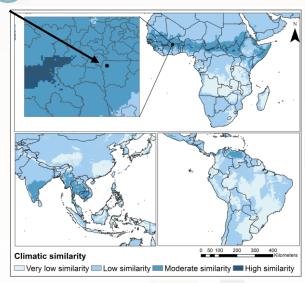


	Parameter	Amount	Narrative
	Total annual P	786 mm	In a single rainy season of 599 mm (Jul– Sep) and a dry season of 374 mm (Oct-Jun).
	Max # of consecutive dry months	7 months (< 100 mm)	
TCF.	Max T rainy season	30.7 °C	
	Max T dry season	37.3 °C	
	Highest min T	24.6 °C	April

Areas of climatic similarity



Lawra-Jirapa CSV 10.73 N -2.64 W



Areas whose future projected climate (by 2030) is similar to the current climate in this CSV (Source: www.ccafs-analogues.org)

Climate-Smart Village Lawra-Jirapa (Ghana)















CSA Portfolio

Field testing and # of farmers involved (2016)

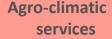
Implemented (**) Evaluated Implemented & Evaluated

(Not CCAFS)

Gender aspect assessed

CSA Practices







641

641

641



Tree planting (Magnifera indica, Anacardium occidentale, Tectonagrandis teak, Maringa oleifera)

Mulching (Yam, Vegetables)

Improved Varieties (Maize, cowpea, soybean)

No/Reduced Tillage (Maize, soybean, cowpea)

Integr. Nutr. Mgt (Maize, cowpea)

61

Organic Fertilizer Intercropping (Jathropha, cowpea)

Planting pits (Maize)

Offseason gardening (Soybean, vegetables)

61 m Water harvesting Earth bunds & Ties ridges (Maize)

Crop rotation (Maize, cowpea) 61 ▲(『)Seasonal forecast

61

Daily forecast

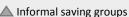
Weekly/10 day forecast

641 Agro- advisories on varieties applied under forecasted info

Agro-advisories on fertilizer and pesticide application

Financial services





Informal indiv. credits

Informal group loans

Weather-based insurance

Market incentives



▲ Input subsidies

Market (price) information

Flagship projects

- Regional/National synthesis, engagement and support -P255
- Building resilient agro-sylvo-pastoral systems through PAR- P34
- Capacitating African Smallholders with Climate Advisories and Insurance-P46

Partners



- **ICRISAT**
- **ICRAF**
- MoFA
- CSIR/SARI **AGRYMET** Ghana
- - CARE Meteo Oxfam Agency

Contacts

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org)

Project Leader Jules Bayala (ICRAF) (j.bayala@cigar.org)









LACERD

Fsoko

CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez-Toro, Julian Ramirez-Villegas, Mathieu Ouedraogo and Saaka Buah.

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Climate-Smart Village Cinzana (MALI)





















♦ Tongo and Ngakoro villages

Main crops and livestock + (→ Gender specific

• Food: Millet, Sorghum

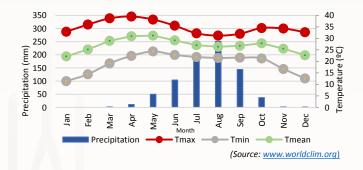
■ Food/Cash: Peanut ♀, Maize ♂, Cowpea,

■ Cash: Rice, Goat, Chicken , Sheep, Oxen , Donkey

Climate-related risks

High rainfall variability, low soil fertility and land degradation

Climatic conditions

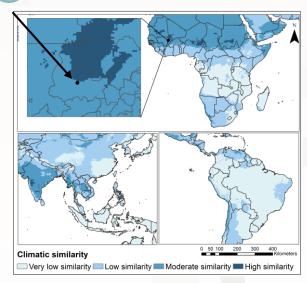


	Parameter	Amount	Narrative
(,,,)	Total annual P	786 mm	In a single rainy season of 435 mm (Jul– Aug) and a dry season of 351 mm (Sep-Jun).
	Max # of consecutive dry months	8 months (< 100 mm)	
Q	Max T rainy season	32.2 °C	
	Max T dry season	39.5 °C	
	Highest min T	24.3 °C	May

Areas of climatic similarity



Cinzana - CSV 13.50 N -5.61 W



Areas whose future projected climate (by 2030) is similar to the current climate in this CSV (Source: www.ccafs-analogues.org)

Climate-Smart Village Cinzana (MALI)

























Field testing and # of farmers involved (2016)

√ Implemented (Evaluated)



Implemented & Evaluated

(Not CCAFS)

Gender aspect assessed

 $\underline{\mathbf{U}}$ Mitigation potential \triangle Available in Site \bigcirc Potential gender impact

CSA Practices



Agro-climatic services

Financial services





📿 🗸 Tree planting

- (Gliricidia sepium, Moringa olifera, Adansonia digitata)
- Intercropping
 - (Sorghum, millet, fodder crops; groundut, cowpea)
- **Improved Varieties** (Sorghum, millet, sesame, fonio)
- Leg.tree intercropping (Jatropha agroforestry with Sorghum and millet)
- Water harvesting Contours (Sorghum and millet)
- Integr. Nutr. Mngt (Sorghum and millet)

- Seasonal forecast
- Agro- advisories on varieties applied under forecasted information
- Agro-advisories on fertilizer and pesticide application

Market incentives

Informal – saving groups

None

Flagship projects

- Regional/National synthesis, engagement and support -P255
- Building climate smart farming systems through integrated water storage and crop-livestock interventions - P38
- Capacitating African Smallholders with Climate Advisories and Insurance Development - P46

Partners



- ICRISAT
- **ICRAF**
- IWMI
- Institut d'Economie Rurale (IER)

Contacts

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org)

Project Leader Jules Bayala (ICRAF) (j.bayala@cigar.org)







CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez-Toro, Julian Ramirez-Villegas, Mathieu Ouedraogo and Kalifa B. Traoré.

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Climate-Smart Village Fakara (NIGER)



















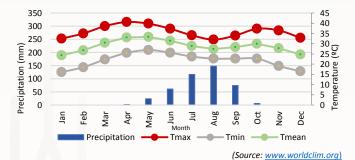


♦ Kampa Zarama, Bankadey villages

Main crops and livestock + (→ Gender specific

- Food: Millet, Cowpea, Sorghum , Maize
- Food/Cash: Peanut, Maize ♀
- Cash: Peanut♀, Goat♀, Chicken♀, Sheep, Cow/Oxen ☐

Climatic conditions



Parameter Amount Narrative

Total annual P 431 mm In a single rainy season of 246 mm (Jul– Aug) and a dry season of 167 mm (Sep-Jun).

Max # of consecutive dry months (< 100 mm)

Max T rainy season 34.1 °C

Max T dry season 40.6 °C

May

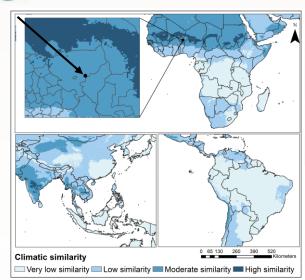
26.9 °C

Climate-related risks

High rainfall variability, low soils fertility, land degradation.

Areas of climatic similarity





Areas whose future projected climate (by 2030) is similar to the current climate in this CSV (Source: www.ccafs-analogues.org)

Highest min T

Climate-Smart Village Fakara (NIGER)

























Field testing and # of farmers involved (2016)

Implemented & Evaluated

U Mitigation potential

(Not CCAFS)

Gender aspect assessed

▲ Available in Site ♀ Potential gender impact

CSA Practices



Agro-climatic services







▲ Informal – saving groups





☐ Tree planting (Moringa)

Farmer Managed **Natural Regeneration** (Millet, sorghum, cowpea, peanut, hibiscus)

 ∏ Improved Varieties (Millet, sorghum, cowpea, okra, Sena obtusifolia)

Planting pits (Sorghum)

Organic Fertilizer

 ∏ Intercropping [°](Sorghum, Millet, cowpea)

√ Water harvesting Half moon/bunds -Millet, sorghum

☐ Income diversification (Poultry)

Seasonal forecast

Agro- advisories on

varieties applied under forecasted information

Agro-advisories on fertilizer and pesticide application

Market

None

Flagship projects

- Regional/National synthesis, engagement and support -P255
- Building resilient agro-sylvo-pastoral systems through PAR- P34

Capacitating African Smallholders with Climate Advisories and Insurance - P46

Contacts

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org)

Project Leader Jules Bayala (ICRAF) (j.bayala@cigar.org)

Partners



- **ICRISAT**
- **ICRAF**
- **IUCN**
- **INRAN**
- AGRYMET









CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez-Toro, Julian Ramirez-Villegas, Mathieu Ouedraogo and Abasse Tougiani.

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Climate-Smart Village Kaffrine (SENEGAL)





















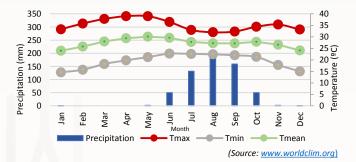
Daga-Birame and Toune Mosquée villages

Main crops and livestock + (→ Gender specific

■ Food: Millet , Sorghum

 Food/Cash: Peanut, Maize♀
 Cash: Horse , Donkey , Dairy Cow , Goat♀, Sheep

Climatic conditions



	Parameter	Amount	Narrative
(,,,)	Total annual P	589 mm	In a single rainy season of 483 mm (Jul–Sep) and a dry season of 106 mm (Oct-Jun).
	Max # of consecutive dry months	9 months (< 100 mm)	
T.	Max T rainy season	33.0 °C	
	Max T dry season	39.0 °C	
	Highest min T	22.7 °C	June

Climate-related risks

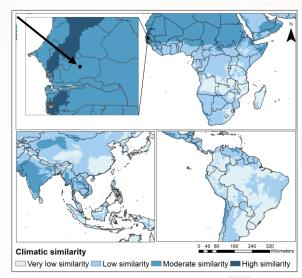
Rainfall variability, droughts, floods and winds

Areas of climatic similarity



Kaffrine-CSV

14.24 N -15.40 W



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

Climate-Smart Village Kaffrine (SENEGAL)





Implemented















CSA Portfolio

Field testing and # of farmers involved (2016)

(Evaluated

Implemented & Evaluated

194 m

Gender aspect assessed **U** Mitigation potential ▲ Available in Site ♀ Potential gender impact

Informal saving groups





20 👬

Agro-climatic services



Financial services



Tree planting (Ziziphus mauritiana, Adansonia digitata, Tamarindus indica, etc)

20 1 Natural Regeneration (Maize, millet, groundnut)

Improved Varieties 20 (Maize, millet)

(Maize, Millet)

Integrated Nutr. Mgt 20 🔝

Inorganic Fertilizer (maize, millet)

Season gardening (Group) (water melon,okra,mint, pepper)

√ Income diversification 20 (poultry)

♀ (Seasonal forecast

○(Daily forecast

♀(♈)Weekly/10 d. forecast 194👬

♀(🏋) Agro- advisories on 194 🖍 varieties applied under forecasted information

Agro-advisories on fertilizer and pesticide application

Market

incentives

None

Flagship projects

- Regional/National synthesis, engagement and support -P255
- Building resilient agro-sylvo-pastoral systems through PAR- P34
- Capacitating African Smallholders with Climate Advisories and Insurance P46

Partners



- **ICRISAT ICRAF**
- **IUCN**
- **ISRA**
- ANACIM



Contacts

Regional CSV Coordinator Mathieu Ouedraogo (m.ouedraogo@cgiar.org)

Project Leader Jules Bayala (ICRAF) (j.bayala@cigar.org)









CSV profile developed by Osana Bonilla-Findji, Patricia Alvarez-Toro, Julian Ramirez-Villegas, Mathieu Ouedraogo and Diaminatou Sanogo.

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