Agros International

LAND | HOPE | LIFE

























Rick Steves' Climate Smart Agriculture Program (October 2019 – September 2020)



Climate Smart Agriculture Pillars

Adaptation Productivity Mitigation CSA is defined as "agriculture that sustainably increases **productivity**, enhances resilience (**adaptation**), reduces/removes GHGs (**mitigation**), and enhances achievement of national food security and development goals" (FAO, 2010)



Climate Smart Agriculture Pillars



Increasing resilience and adaptive capacity ag. production systems



Reducing agriculture's carbon foot-print and making agriculture part of the solution

Productivity

Ensuring farmers' livelihoods are not threatened by mitigation and adaptation efforts

Climate Smart Agriculture Practices



Soil Management

Improve soil quality Crop rotation Erosion prevention techniques (e.g., raised beds, terracing, cover crops)

Bio-fertilizers

Integrated Pest Management

Biological pest controls Chromatic traps Repellents Bait Mulching

Pruning and weeding Live barriers



Production and Commercialization

Tools and equipment Protected crop infrastructure Irrigation systems Crop diversification Market connections



Preliminary Results: Policy and Governance



Slash and burn practices banned



Forest areas have a protection plan



Forest guards in four villages



Improved coordination with government authorities



Preliminary Results: Climate Smart Agriculture







What Have We Learned?





Where We Are with the Grant Execution?











Hydroponic module 420 meters²







Forest and fruit nursery 50,000 plants per year (10,000 plants produced to date)





IRRIGATION DISTRICT

20 acres drip irrigation district with a water reservoir of 27,000 gallons and 2 pumps



"MANUAL DE ELABORACIÓN DE COMPOST Y BOCASHI"



AGROS INTERNATIONAL







Vermicompost: 32 sacs of biofertilizer Bocashi and compost: 130 sacs (13,000 pounds) Biopesticides: 2000 liters





Market Inclusion and Commercialization

What Is Pending?





Complete the setup and increase biofertilizers and biopesticides production

32/3000 sacs



Complete the Nursery 10,000/50,000 plants



Second Hydroponic Module



1/7 reforestation campaigns



Expand use of CSA: Four demo plots



Market studies and go to market strategy for commercial modules

Budgeted vs Actual				
	Budget	Actual	% Executed	Remaining
TOTAL	\$149,016.00	\$71,617.16	48%	\$77,398.84
Hydroponics	\$27,690.00	\$18,474.02	67%	\$9,215.98
Marketing	\$3,800.00	\$13.20	0%	\$3,786.80
Water Supply System	\$33,960.00	\$29,384.58	87%	\$4,575.42
Vermicompost	\$13,640.00	\$1,206.29	9%	\$12,433.71
Nursery	\$19,830.00	\$1,574.90	8%	\$18,255.10
Professional Technical Team	\$34,130.00	\$20,964.17	61%	\$13,165.83
Agros Program Management	\$15,966.00	\$10,644.00	67%	\$5,322.00



Looking Ahead!

A CART

Climate Smart Agriculture

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Climate Smart Villages





Hipolito Chavarria

La Bendición, Nicaragua



CLIMATE SMART VILLAGES

- 1. Climate smart agriculture
- 2. Protection of forest and water sources
- 3. Recuperating environmentally risk areas
- 4. Waste management
- 5. Energy efficient

An urgent problem: Our climate is changing.

