Soil Survey in Haiti

Thomas Reinsch

Objectives

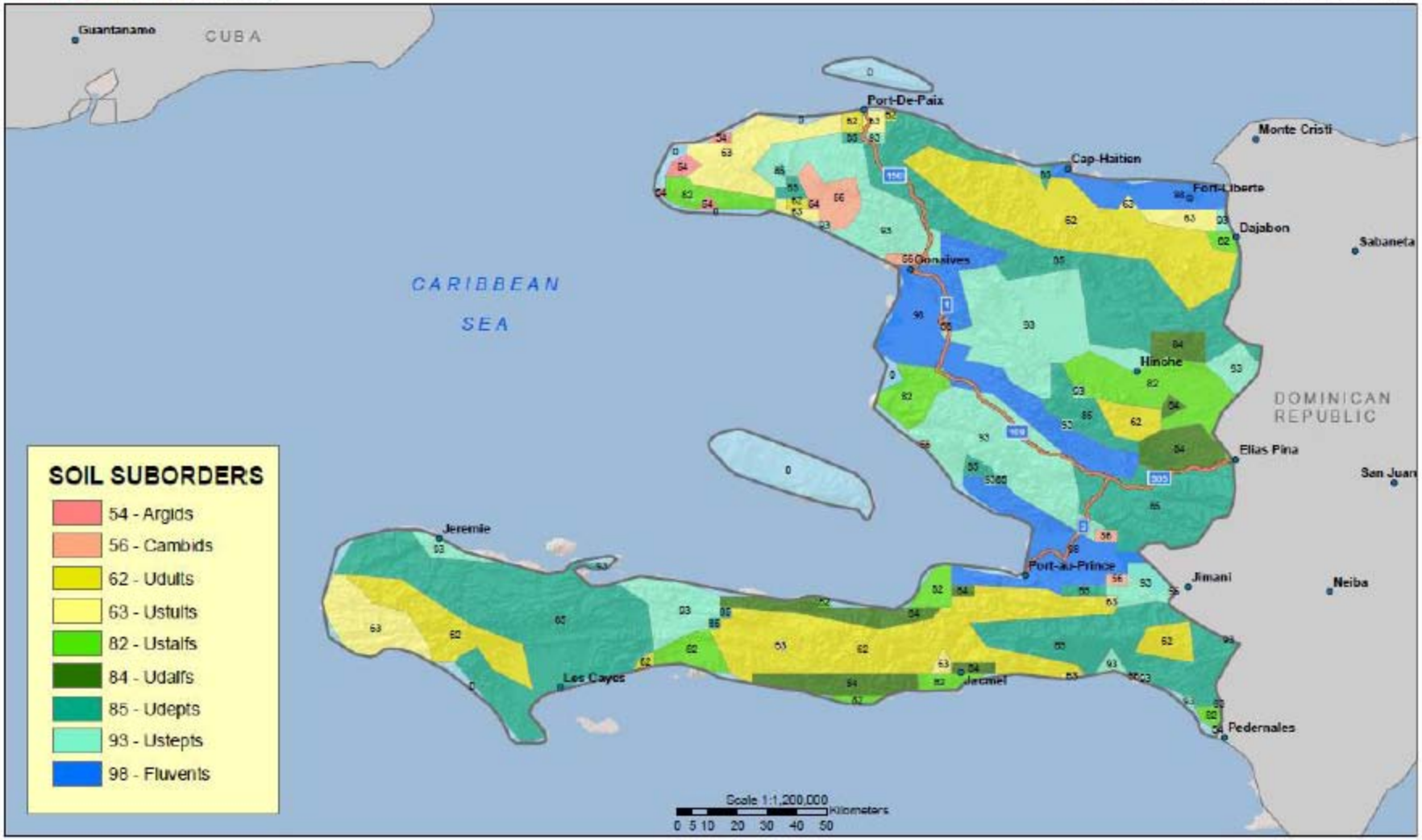
- Increase capacity of Haiti Ministry of Agriculture to create, maintain, and promote a soil survey program
- Identify soil survey partners
- Determine current resources
- Evaluate potential soil survey areas

- A survey of available geos patial data in Haiti identified significant primary data gaps
  - soil
  - conservation practices

Quiñones, Maya; Gould, William; Rodriguez-Pedraza, Carlos D. 2006. Geospatial data availability for Haiti: an aid in the development of GIS-based natural resource assessments for conservation planning. Gen. Tech. Rep. IITF-GTR-33. San Juan, PR: U.S. Department of Agriculture, Forest Service, International Institute of Tropical Forestry. 55 p.

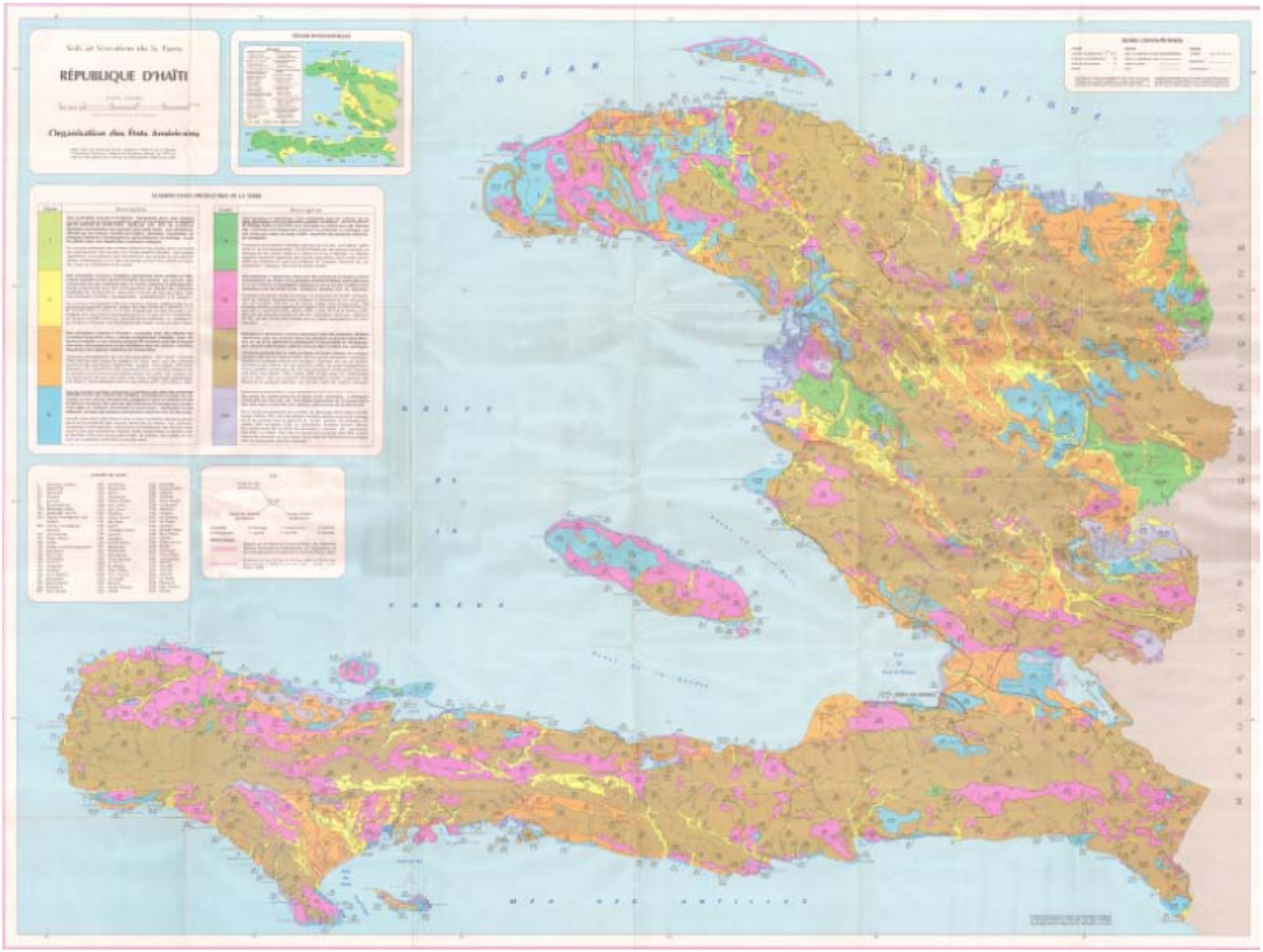
USDA NRCS Natural Resources Conservation Service
Soil Survey Division
Washington, D.C.

General Soils of Haiti



Source: Global Soil Regions map, USDA-NRCS, 2006.
Note: Map is displayed at a larger scale than the global map scale of 1:5,000,000.

January 2010


Sols et Végétation de la Terre
RÉPUBLIQUE D'HAÏTI
Organisation des États Américains
OCEAN ATLANTIQUE
MER DES ANTILLES

Sols et Vocation de la Terre

RÉPUBLIQUE D'HAÏTI

Echelle 1:250.000

10 0 10 20 30 40 Km.

Projection Transversale de Mercator

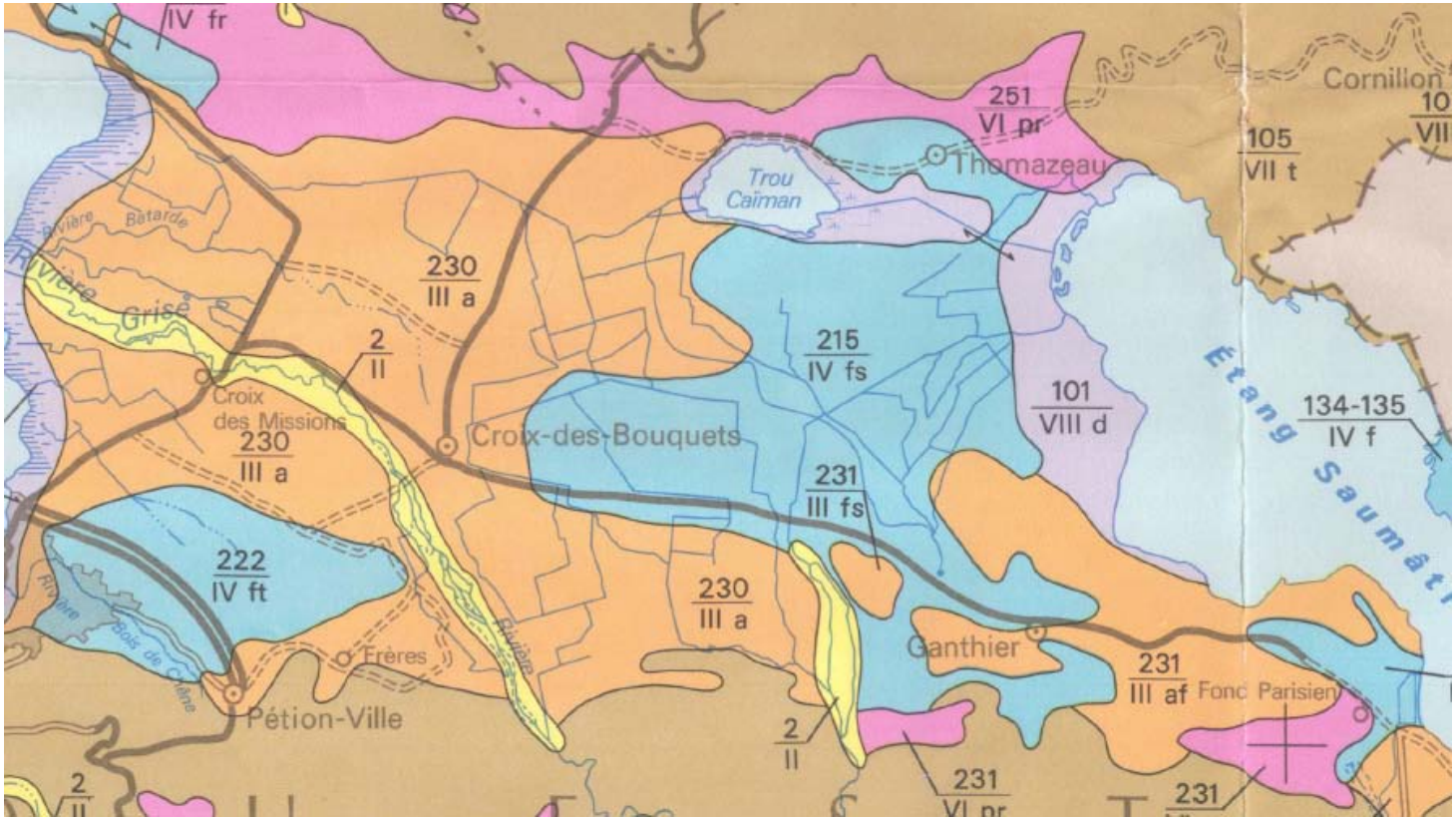
Organisation des États Américains

Cette carte fait partie des travaux réalisés en 1968-70 par la Mission d'Assistance Technique Intégrée du Secrétariat Général de l'OEA en Haïti et a été préparée par le Bureau de Développement Régional de l'OEA

UNITÉS DE SOLS

2	Alluviaux récénts	202	Artibonite	233	Gonaïves
47	Greenville	203	Grammont	234	Ouanaminthe
50	Matanzas	204	Estère	235	Cabaret
60	Habana	205	Dessalines	236	Jérémie
91	La Cruz	206	Petite Rivière	237	Fond Rouge
92	Buenaventura	208	Port Salut	238	Voldrogue
100	Marécage côtier	209	Les Cayes	239	Matheux
101	Marécage interne	210	Cavaillon	240	Tomarin
104	Terrain montagneux non calcaire	212	Camp Pérrin	242	La Gonâve
		215	Bas Boen	243	La Tortue
105	Terrain montagneux calcaire	216	Aquin	244	Laurent
		217	Tombeau Cheval	245	Grande Anse
106	Los Haitises	218	Jacmel	246	Île à Vache
107	Plage côtière	219	Léogâne	247	L'Asile
108	Dunes	220	Grand-Goâve	248	Côtes de Fer
110	Vallées intermontagneuses	221	Mirebalais	249	Bainet
116	Carbonera	222	Pétionville	250	Kenscoff
125	Elías Piña	223	Moustiques	251	Trou d'Eau
126	Las Matas	224	Trois Rivières	252	Lascahobas
132	Cacheo	225	La Croix	253	Hinche
134	Enriquillo	226	St.-Michel	254	Carvajal
135	Tamayo	227	Jean Rabel	255	Pérodin
139	Gran Sabana	228	Fort Liberté	256	Abuillot
151	Quemados	229	Limonade	257	La Crête
152	Restauración	230	Damien	258	Plaisance
153	Anacaona	231	Fonds Parisien	259	Cap-Haïtien
201	Pont Sondé	232	Limbé	260	Ennery

Legend with names but no descriptions or metadata



Cul de Sac Plain 115,000 Acres alluvial soils east of Grise River to Saumatre Pond

Ministry of Agriculture – Forestry and Soils

National Center of Geospatial Information

Established 125 m earth observation grid to evaluate land use/land cover.

Interministerial Land Management Committee

ciat.gouv.ht

Current project: risk managment

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WATERSHED INITIATIVE FOR NATIONAL NATURAL ENVIRONMENTAL RESOURCES
MARNDR
Programme d'intensification
De la production agricole
Campagne agricole printemps 2011

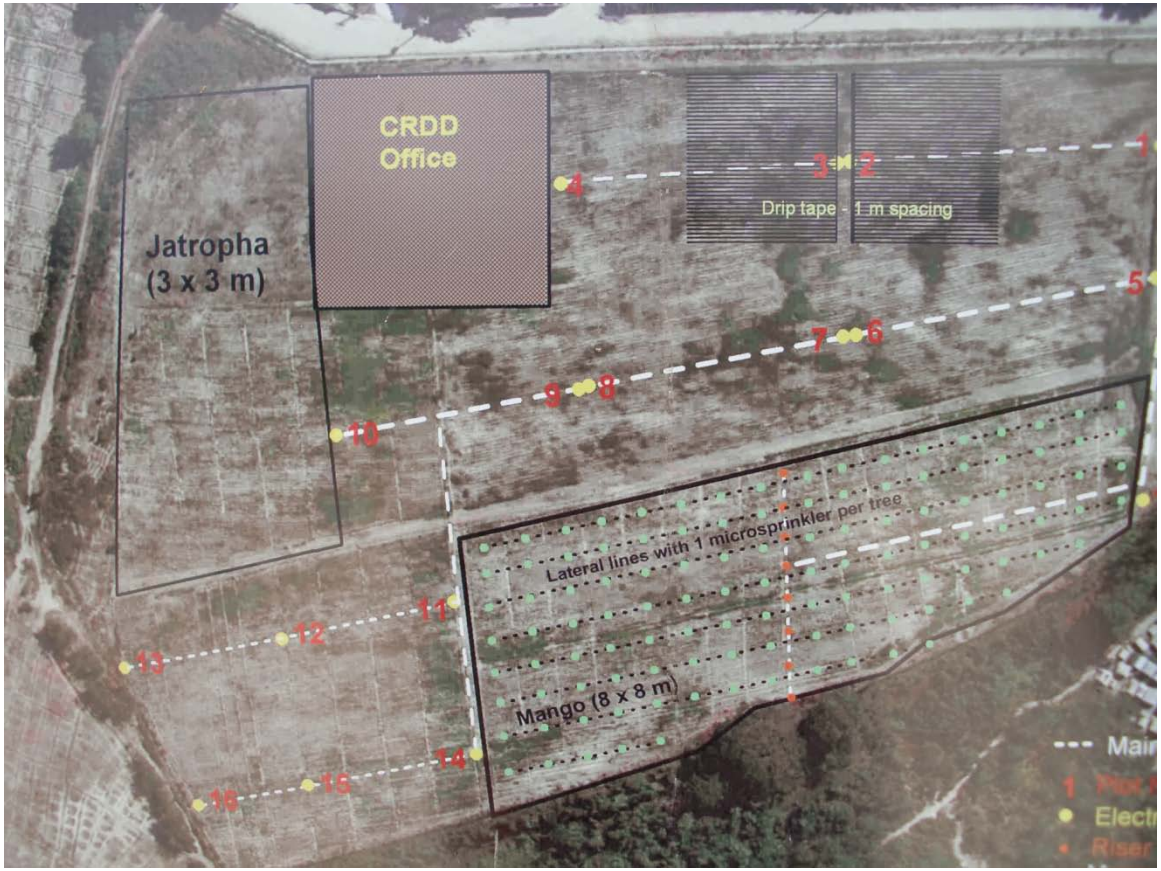
Intensive Rice System

Left transplanted after 3 days

Right transplanted after 30 days

Sustainable Rural Development Center

AID|WINNER
WATERSHED INITIATIVE FOR NATIONAL NATURAL ENVIRONMENTAL RESOURCES
MARNDR
Well
CRDD Office
Jatropha (3 x 3 m)
Drip tape - 1 m spacing
Jatropha Nursery
Greenhouse
Fish Ponds
Approx. Plot Size (m)
Plot No E/W N/S
1-4 39 37
5-7 33 32
8-10 40 32
11-16 35 29
Lateral lines with 1 microsprinkler per tree
Mango (8 x 8 m)
Mainline
Plot Number
Electric Valve
Riser
Manual Valve
(Greenhouse on separate control system)


CRDD
Office
Jatropha
(3 x 3 m)
Drip tape - 1 m spacing
Lateral lines with 1 microsprinkler per tree
Mango (8 x 8 m)
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

Successive crops without fertilizer

Planting two seeds

Traditional planting

Drip Irrigation

Aquaculture

Disking compared to Manual Cultivation

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MARNDR
Batiment administratif
&
laboratoire

Extension Video Conference

Conclusions

- Ministry of Agriculture under reorganization
- Identified potential collaborators
- Geospatial data exists and are available
- Cul de Sac area selected for initial soil survey