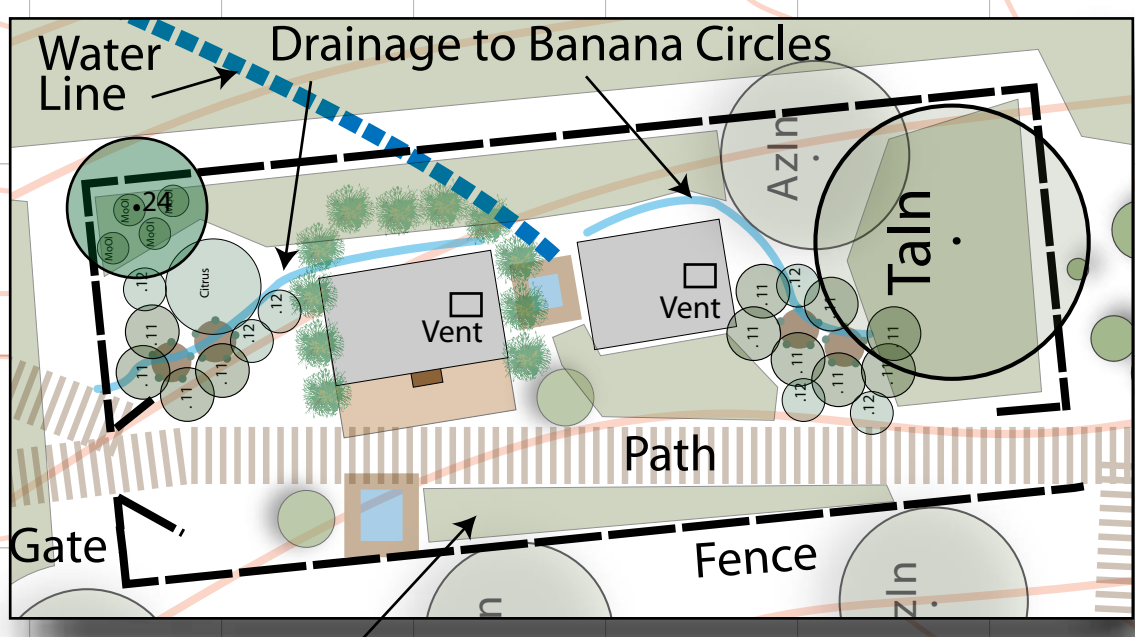


SENEGAL



Piping and Valves

Main Line Valves and Cisterns (49)

Tree Valves (48)

Main Line

Lateral Lines

Drip Lines

Main Line 560 m
Secondary Line 537 m
Tree Laterals 639 m

Trees

Windbreaks

Perimeter

- Acacia melifera
- Casuarina equisetifolia or other sp. Pine
- Moringa, Leucaena, or Neem (Azadirachta sp.)

Saddle/Ridgetop

- similar to perimeter
- Tree: Albizia saman, Shrub: atriplex hamilis

Fruit Trees

- Mango
- Lemon
- Ziziphus
- Olives
- Date Palm
- Cherry
- Papaya
- Citrus
- Apricot
- Figs
- Almond

Interplanted Tree Crops

- Wide spaced savannah agroforestry and native "perennial" pasture.
- In non-irrigated upland areas
 - Faidherbia sp.
 - Pithecellobium dulce
 - Moringa perigrina
 - Saman samanea

Annual Planting

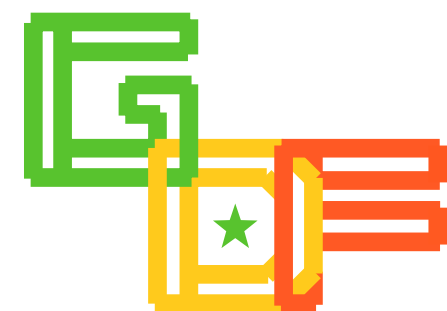
Mango and Lemon Trees Intercropped

Annual Planting

Annual Planting

Annual Planting

652 feet
198 Meters



GORGUI
DIENG
foundation

Project:
Dieng Foundation
Demonstration Farm
Kebemer, Senegal



MATTER



Designers:
Daniel Halsey
612-720-5001
Minnesota, USA

Neil Bertrando
Nevada, USA



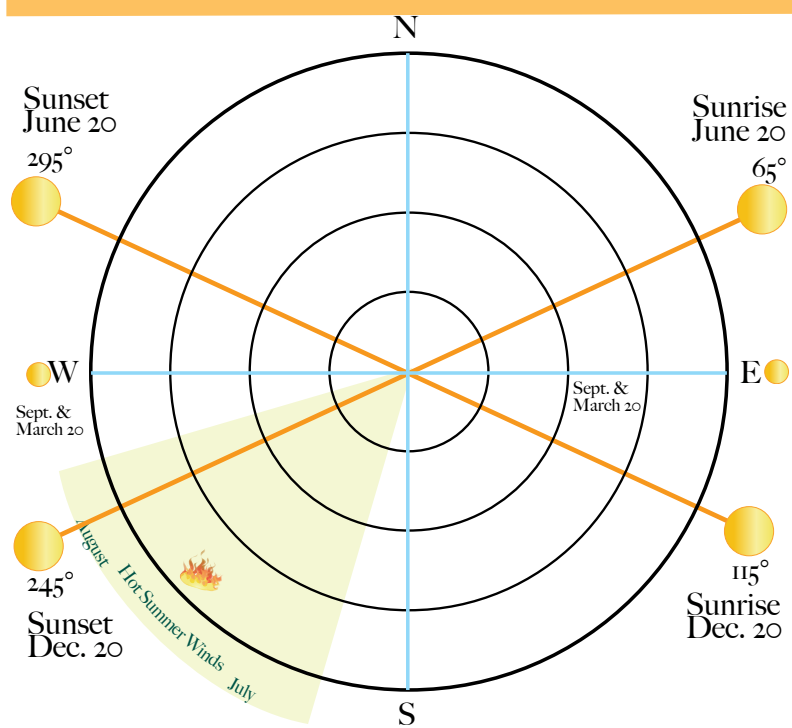
Site Conditions

Climate: Dry Land - Desert
Land Form: Coastal Plain
Soil Type: Sand
pH: Acid
Growing Zone: 12
Latitude: 16°
Elevation: 50m
Annual Precipitation: 450mm
Prevailing Winds: West
Region: Lagou
Ecoregion: Sahelian Acacia Savanna

June 20th 82°



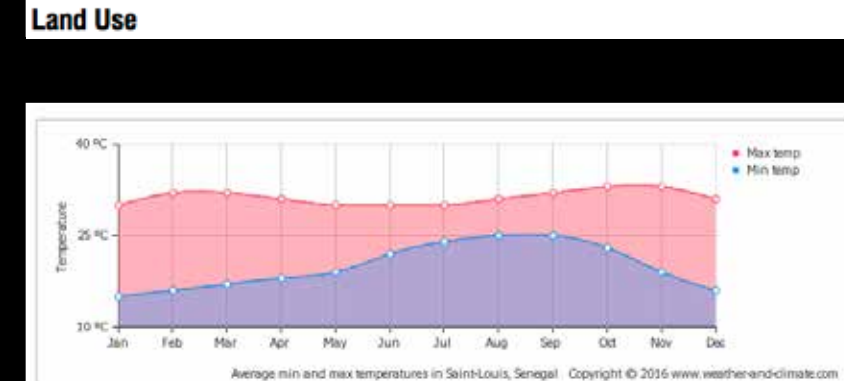
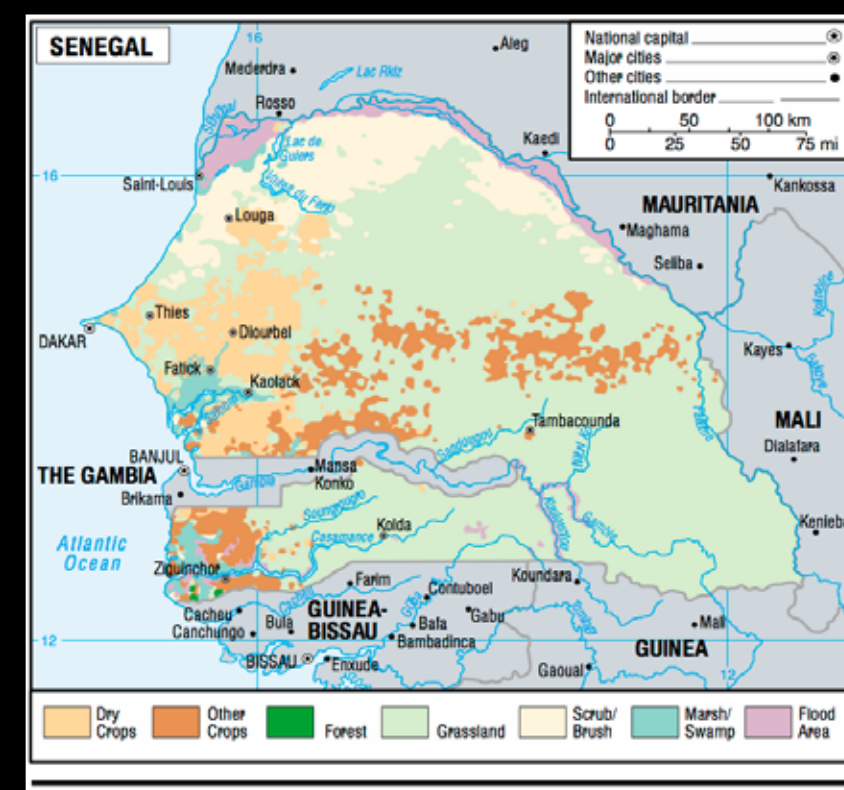
Senegal Sun and Wind Sector Analysis at 15° Latitude



Key

- Water Access
- Well
- Swale
- Path
- Road
- Property Line
- Acreage Line
- Large Equip. Access
- Water Tank

1 Block = 50 feet



Main crops (2011) - Domestic Supply				
	Production, 1000 tonnes	Domestic supply, 1000 tonnes	Export, 1000 tonnes	Net Trade, 1000 tonnes
Sugar Cane	880	880		
Rice (Milled Equivalent)	271	987	109	805
Onions	190	315	1	126
Tomatoes	180	199	13	30
Maize	124	351	2	112
Sorghum	87	146	0	0
Potatoes	13	94	0	82
Barley		30	9	39
Dates		1	0	1
Olives		0	1	-1
Wheat		447	23	470