

# GUIDE TO THE HIGH NATURE VALUE FARM PLAN

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The objective of this guide is to produce a healthy and cost-effective crops by introducing farming practices that will improve the farm production **management system** and at the same time increase the farmer's knowledge and information of soil biological activity, crop diversity and the biological cycles of plants,.

## THE QUALITY SOIL PLAN \_1

The major components of our **Soil Quality Management Plan** are:

<input checked="" type="checkbox"/> Crop rotation	<input checked="" type="checkbox"/> Composting	<input checked="" type="checkbox"/> Off-farm manure
<input type="checkbox"/> Green manure /cover crop	<input checked="" type="checkbox"/> _soil amendments	<input checked="" type="checkbox"/> Recycling of crop residues

## LAND PREPARATION \_2: Major Input uses to be encouraged

Product, Brand name or source ( <i>volume</i> )	REASON FOR USE	APPLICATIONS	OBJECTIVE STATUS:
<b>Garlic Tea</b>	Deterrent for bachac, mole cricket	Applied directly to soil before seedling planting	Standard Practice
<b>Ash</b>	Promotes germination of cucurbits	Applied around seeds for cucumber, pumpkin, etc	Standard Practice
<b>Compost</b>	Increases microbial activity in the soil. Source of soil nutrients	Applied during bed preparation or in seedling transplant	Standard Practice
<b>Manure</b> (cow, horse or chicken-treated)	Improves soil fertility	Applied during bed preparation	Acceptable
<b>Sea-Weed</b> (liquid or granular)	Natural Soil Supplement	Dissolved and sprayed on to the bed after seedlings have been transplanted	Acceptable
<b>New Fol Cal SL</b>	Plant Bio-Stimulant, Foliar and Soil Fertilizer	Sprayed on to the bed after seedlings have been transplanted	Accepted for Organic Farming
<b>Nitro Plus 23</b>	Amino Nitrogen Solution	Sprayed on to the bed during 2-week intervals	Accepted for Organic Farming
STRUCTURAL COMPONENTS	REASON FOR USE	WHEN APPLIED	TARGETING:
<b>Raised Beds</b>	Facilitate Drainage of Soil	In preparation for planting	Moisture Content
<b>Path Separators</b>	Easy access to beds; Crop Maintenance	In preparation for planting	Movement of insects among beds
<b>Sheet Composting</b>	Introduction organic material into soil	Prior to transplanting or seeding	quality soils
<b>Moon Cycle Rotation</b>	Lunar gravity and moonlight	Calendar days guide	Robust Plant Growth
<b>Marigold, Herbs</b>	Insect vector control	In land allocation plan	Biological controls

## CROP MANAGEMENT PLAN\_3

### Methods of Monitoring Crop Growth

- Observation of Soil Microbial Activity;
- observation of early Crop Growth
- Testing of Soil Quality
- monitoring records kept

### Frequency of Crop monitoring:

\_\_\_\_\_  Daily   Weekly \_\_\_\_\_  Monthly \_\_\_\_\_  tri-monthly  as needed

### Crop management inputs used or intended for use;

NATURE OF PROBLEM	CONTROL PRODUCT	APPLICATION METHODOLOGY	CHECK IF BIOLOGICAL (✓)
General Systemic	<b>Cinnamon Tea</b>	General application to the plant and the soil	✓
Foliage Systemic	<b>Neem Oil / Nemex</b>	Applied to the foliage	✓
Insect vector	<b>Golden Pest Spray Oil: Botanical Insecticide</b>	Applied to the foliage	✓
Fungal	<b>Phyton 27 - Systemic Bactericide, Fungicide</b>	Applied to the foliage	✓
Weed Suppression	<b>Manual</b>	Weeding between beds first then on beds	

### **EVALUATION:**

Effectiveness of our crop management program will be rated as:

- excellent  satisfactory  needs improvement and changes will be applied

## BIOME INTEGRITY\_4:

- Distinct boundaries and buffer zones
- No unintended application of a prohibited substance or contact with prohibited substance that is applied to adjoining land not under HNV Farm management.
- Management control over spraying, application of commercial inputs, introduction of any substance onto the farm;
- No parallel production with conventional or transitional farming practices.

## Assumptions

- 1) Farmer Contributions in terms of:
  - Changed Farm Practices;
  - Crop Mix to maximize total farm value;
  - Materials and manual labour for land preparation, weed suppression, etc.
- 2) Project to provide start-up materials for;
  - Basic soil enhancement;
  - Structural Components
  - Crop management
  - Biome Integrity
- 3) Targeting 25% of the total farming area (Maracas/St. Joseph) of 81 acres = 20 acres

## COMPONENTS

### Farmer's contributions

<b>Crop Management</b>	
Transplanting	Man-dys
Mulching / Moulding	Man-dys
Manual- Maintenance	Man-dys
Harvesting	Man-dys
<b>Materials</b>	
Seedlings	Trays
Seeds	Lbs per acre
Manure	Bags
Compost (on-farm)	
Grass Mulch (on-farm)	

<b>Project Contributions</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Applications</b>	<b>\$/Acre</b>	<b>20 Acres</b>
<b>Start-up Fertilizer</b>	<b>1 kg</b>	<b>\$200</b>	3	\$600	\$12,000
Sea-Weed (liquid or granular)	1 Ltr	\$45	6	\$270	\$5,400
<b>New Fol Cal SL</b>	1 Ltr	\$230	4	\$920	\$18,400
Nitro Plus 23	1 ltr	\$53	4	\$212	\$4,240
Phyton 27	1 ltr	\$45	2	\$90	\$1,800
<b>Neem Oil/Nemex</b>	1 ltr	\$55	2	\$110	\$2,200
<b>Golden Pest Spray Oil</b>	1 Ltr	65	1	65	\$1,300
<b>TOTAL COSTS</b>				<b>\$2,267</b>	<b>\$45,340</b>