

## MAKING MILLIONS THROUGH AGRIBUSINESS ENTERPRISES.

- Agribusiness is over taking very fast other sectors of economy in Africa and becoming Green Gold of 21<sup>st</sup> century.
- Both young and aged have known the secrets and have ventured into horticulture and are making millions of money out of the business.
- Horticulture includes growing of vegetables, fruits and flowers for fresh market, in Africa and especially in Nigeria due to high population the demand for quality vegetables is high than supply shifting the price to higher limits.
- These crops are Tomatoes, onions, capsicum, cabbage, lettuce and other varieties of local vegetables.
- *Start horticulture and in less than five month become millionaire.*

# Horticultural Crops

The 20Ha irrigated area will be divided into plots each measuring 1Ha and each of these will be covered with the following crops:

- Tomatoes: *Lycopersicon esculentum* (formerly: *Solanum esculentum*)
- Dry Bulb Onions: *Allum cepa*
- Lettuce: *Lactuca sativa*
- Cabbage: *Brassica oleracea*
- Capsicum (Sweet or Bell Pepper): *Capsicum spp (annum)*
- Sweet Corn: *Zea mays*

The crops will be under drip irrigation & fertigation system and spaced to ensure continuous production throughout the year. The crops will also be rotated in order to ensure optimum performance and in the third season, it is envisaged that this 20Ha will be rotated with the one initially covered by Red Maize & Soya.

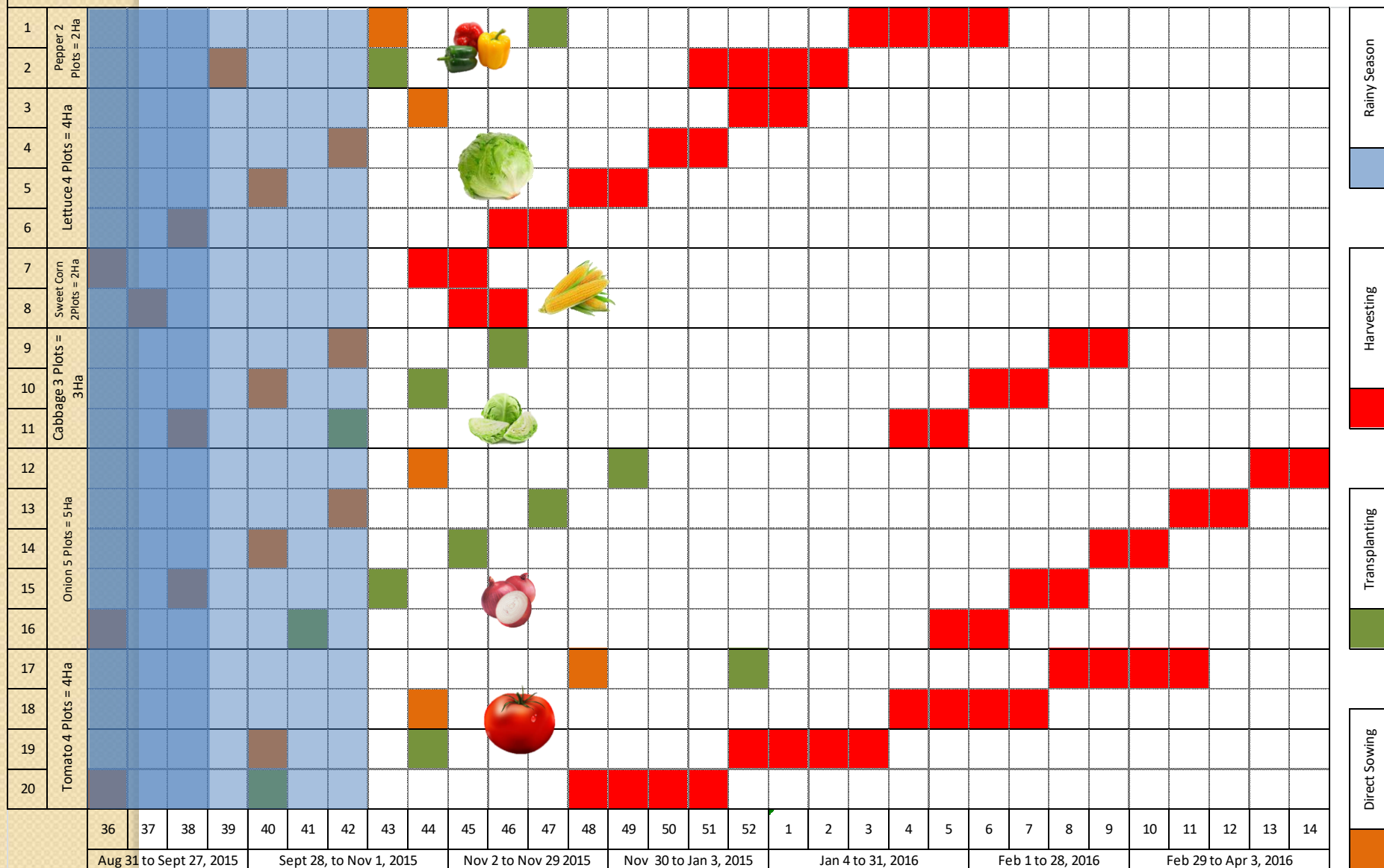
# List & Cost of Greenhouse Equipment

1	Greenhouse 1152 sq m (48m x 24m): For Nursery Production	4,800,000.00
2	Mist Sprinklers Irrigation System for Nursery Production	480,000.00
3	Greenhouse 1152 sq m (48m x 24m): For Hybrid Tomato & Capsicum	4,800,000.00
4	Mist Sprinklers Irrigation System for Tomato & Capsicum Production	480,000.00
5	Drip Irrigation System for Tomato & Capsicum Production	480,000.00
6	Tensionmeters for Soil Moisture Monitoring	25,000.00
7	Thermometers for Temperature Monitoring	25,000.00
8	Humiditymeters for Humidity Monitoring	25,000.00
9	PP for staff - Dust Coat, Cap & Boots	150,000.00
10	PP for visitors - Dust Coat, Cap & Boots	
11	Hand Tools - Hoes, Rakes, Forks, Shovels, buckets etc	
12	Trestling Lines for Tomatoes in Greenhouse	100,000.00
13	Shade netting 3000 sqM	800,000.00
	<b>Total</b>	<b>12,165,000.00</b>
	<b>Total</b>	<b>61,200,000.00</b>
	<b>Total</b>	<b>73,365,000.00</b>

**Planting, Harvest & Rotational Program Season 1 (Week 49, 2014 to Week 22, 2015) for Horticulture: Total Area = 20Ha**

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Planting, Harvest & Rotational Program Season 2 (Week 36, 2015 to Week 14, 2016) for Horticulture: Total Area = 20Ha



# Irrigated Horticulture (20Ha Block A) 2015

Irrigated Horticulture (20Ha Block A) 2015

Enterprise		Seeds	Fertilizer		Foliar Feed	Enzyme	Herbicide		Insecticide		Fungicide		Sub-Total	Ha	Total
			NPK	UREA			Pre	Post	Karate	Z Force	Mancozeb	Ridomil			
Tomatoes	Unit	Kgs	50Kg Bag	50Kg Bag	Lits	Lits	Lits	Lits	Lits	Lits	Kgs	Kgs		9	
	Qty	2	4	4	3	0.5	3	3	1	27	20	4			
	Price	15,000.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	2,000.00			
	Total	30,000.00	22,000.00	22,000.00	4,500.00	700.00	4,500.00	5,400.00	4,000.00	48,600.00	28,000.00	8,000.00	177,700.00		1,599,300.00
Onions	Unit	Kgs	50Kg Bag	50Kg Bag	Lits	Lits	Lits	Lits	Lits	Lits	Kgs	Kgs		9	
	Qty	3	4	4	3	0.5	3	3	1	27	20	10			
	Price	10,000.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	2,000.00			
	Total	30,000.00	22,000.00	22,000.00	4,500.00	700.00	4,500.00	5,400.00	4,000.00	48,600.00	28,000.00	20,000.00	189,700.00		1,707,300.00
Cabbage	Unit	Kgs	50Kg Bag	50Kg Bag	Lits	Lits	Lits	Lits	Lits	Lits	Kgs	Kgs		6	
	Qty	2	4	4	3	0.5	3	3	1	18	12	6			
	Price	15,000.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	2,000.00			
	Total	30,000.00	22,000.00	22,000.00	4,500.00	700.00	4,500.00	5,400.00	4,000.00	32,400.00	16,800.00	12,000.00	154,300.00		925,800.00
Lettuce	Unit	Kgs	50Kg Bag	50Kg Bag			Lits	Lits	Lits	Lits	Kgs	Kgs		6	
	Qty	2.5	4	4	3	0.5	3	3	1	21	16	3			
	Price	15,000.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	2,000.00			
	Total	37,500.00	22,000.00	22,000.00	4,500.00	700.00	4,500.00	5,400.00	4,000.00	37,800.00	22,400.00	6,000.00	166,800.00		1,000,800.00
Sweet Corn	Unit	kgs	50Kg Bag	50Kg Bag		Lits	Lits	Lits	Lits	Lits	Kgs	Kgs		6	
	Qty	25	2	2	3	0.5	3	3	0.5	4	4	0			
	Price	125.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	-			
	Total	3,125.00	11,000.00	11,000.00	4,500.00	700.00	4,500.00	5,400.00	2,000.00	7,200.00	5,600.00	-	55,025.00		330,150.00
PEPPER	Unit	Kgs	50Kg Bag	50Kg Bag	Lits	Lits	Lits	Lits	Lits	Lits	Kgs	Kgs		4	
	Qty	2	4	4	3	0.5	3	3	1	27	20	4			
	Price	15,000.00	5,500.00	5,500.00	1,500.00	1,400.00	1,500.00	1,800.00	4,000.00	1,800.00	1,400.00	2,000.00			
	Total	30,000.00	22,000.00	22,000.00	4,500.00	700.00	4,500.00	5,400.00	4,000.00	48,600.00	28,000.00	8,000.00	177,700.00		710,800.00
Grand Total		160,625.00	121,000.00	121,000.00	27,000.00	4,200.00	27,000.00	32,400.00	22,000.00	223,200.00	128,800.00	54,000.00	921,225.00	40	6,274,150.00



# Irrigated Horticulture (20Ha Block A) 2015

Irrigated Horticulture (20Ha Block A) 2015

Enterprise		Land Clearing	Ploughing	Harrowing	Ridging	Herbicide Appl	Planting	Agrochem Spray	Weeding	Harvest & Grade	Transport	Sub-Total	Ha	Sub-Total
Tomatoes	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	20	27	15	180	12		9	
	Price	1,500.00	20,000.00	12,000.00	15,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	15,000.00			
	Total	22,500.00	20,000.00	12,000.00	15,000.00	4,500.00	30,000.00	40,500.00	22,500.00	270,000.00	180,000.00	617,000.00		5,553,000.00
Onions	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	50	27	50	60	12		9	
	Price	15,000.00	20,000.00	12,000.00	15,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1.00	15,000.00			
	Total	225,000.00	20,000.00	12,000.00	15,000.00	4,500.00	75,000.00	40,500.00	75,000.00	60.00	180,000.00	647,060.00		5,823,540.00
Cabbage	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	20	18	15	15	8		6	
	Price	1,500.00	20,000.00	12,000.00	15,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	15,000.00			
	Total	22,500.00	20,000.00	12,000.00	15,000.00	4,500.00	30,000.00	27,000.00	22,500.00	22,500.00	120,000.00	296,000.00		1,776,000.00
Lettuce	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	25	18	15	20	8		6	
	Price	1,500.00	20,000.00	12,000.00	15,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	15,000.00			
	Total	22,500.00	20,000.00	12,000.00	15,000.00	4,500.00	37,500.00	27,000.00	22,500.00	30,000.00	120,000.00	311,000.00		1,866,000.00
Sweet Corn	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	8	6	15	25	5		6	
	Price	1,500.00	20,000.00	12,000.00	15,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	15,000.00			
	Total	22,500.00	20,000.00	12,000.00	15,000.00	4,500.00	12,000.00	9,000.00	22,500.00	37,500.00	75,000.00	230,000.00		1,380,000.00
pepper	Unit	M/Days	Ha	Ha	Ha	Lits	M/Days	Lits	M/Days	M/Days	Tons			
	Qty	15	1	1	1	3	20	27	15	180	12		4	
	Price	1,500.00	20,000.00	12,000.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	15,000.00			
	Total	22,500.00	20,000.00	12,000.00	1,500.00	4,500.00	30,000.00	40,500.00	22,500.00	270,000.00	180,000.00	603,500.00		2,414,000.00
Grand Total		337,500.00	120,000.00	72,000.00	76,500.00	27,000.00	214,500.00	184,500.00	187,500.00	630,060.00	855,000.00	2,704,560.00	40	18,812,540.00

## Operating Profit & ROI for Horticulture, Maize & Soya

Operating Profit Calculation for Horticulture, Maize & Soya 2014 to 2015								
Enterprise		Ha	Rev/Ha	Revenue (NGN)	Op Exp/Unit	Total Op Expense (NGN)	Op Margin (NGN)	Op Margin (%)
Irrigated Horticulture	Tomato	9	3,000,000.00	27,000,000.00	794,702.00	7,152,318.00	19,847,682.00	74%
	Onion	9	3,200,000.00	28,800,000.00	836,702.00	7,530,318.00	21,269,682.00	74%
	Pepper	4	3,000,000.00	12,000,000.00	785,702.00	3,142,808.00	8,857,192.00	74%
	Cabbage	6	1,500,000.00	9,000,000.00	450,302.00	2,701,812.00	6,298,188.00	70%
	Lettuce	6	2,600,000.00	15,600,000.00	477,800.00	2,866,800.00	12,733,200.00	82%
	Sweet Corn	6	375,000.00	2,250,000.00	285,027.00	1,710,162.00	539,838.00	24%
Subtotal				94,650,000.00		25,104,218.00	69,545,782.00	73%
Greenhouse	Tomato	0.086		5,040,000.00	499,500.00	499,500.00	4,540,500.00	90%
	Pepper	0.029		2,764,800.00	91,200.00	91,200.00	2,673,600.00	97%
Subtotal				7,804,800.00		590,700.00	7,214,100.00	92%
Field Crop	Red Maize	60	250,000.00	15,000,000.00	164,000.00	9,840,000.00	5,160,000.00	34%
	Soya Beans	60	280,000.00	16,800,000.00	162,000.00	9,720,000.00	7,080,000.00	42%
Subtotal				31,800,000.00		19,560,000.00	12,240,000.00	38%
Grand Total				134,254,800.00		45,254,918.00	88,999,882.00	66%
Cost of Greenhouse & Irrigation Equipment							73,365,000.00	
Payback Period (ROI) inLess than One Year								



# Crops Under Drip Irrigation



# Pictures of Greenhouses





# Poultry Production

A total number of 10000 layers will be reared (from 17 week old juveniles) where 350 layers will be kept for production of eggs for the hatchery. Four incubators will be employed with two on full production, one is on standby while the fourth is kept as an emergency spare. The 350 birds will be selected from the best layers and will produce 42 one-day chicks per day for 18 months.

At **75%**, the layers produce a total 6,862 eggs per day. 168 eggs that are not suitable for hatching will be added to the eggs for sales to total to 7,030 per day.



# Cost of Material & Inputs for Egg & Chick Prod.

## Budget for Poultry Farming for Egg & Day-Old Chick Production

### Equipment Required for Layers and Hatchery

Ref	Description of Items	Unit	Qty	Rate	Amount	
1	Layers Housing- Cage (40xm 10m x 3m)	Set	2	3,000,000.00	6,000,000.00	
2	Layers Record room & Egg room (5X4m)	Unit	1	1,500,000.00	1,500,000.00	
3	Changing Rooms ( 2m x 4m)	Unit	2	150,000.00	300,000.00	
4	Isolation Pen House (4m x10m x 2m)	Unit	1	600,000.00	600,000.00	
5	Battery cages	Set	1	10,000,000.00	10,000,000.00	
6	Delivery van	Unit	1	4,000,000.00	4,000,000.00	
7	Incubators (400 Eggs capacity)	Set	4	280,000.00	1,120,000.00	
8	Rearing Equipments	Lot	1	3,600,000.00	3,600,000.00	Capital Costs
9	Day Old Chick Holding Area	Unit	1	1,000,000.00	1,000,000.00	28,120,000.00
10	Protective Equipment	Lot	1	300,000.00	300,000.00	
11	17 week old chicks[ layers]	Unit	10000	1,200.00	12,000,000.00	Operating Costs
12	Feeds for Layers	Bags	24000	2,300.00	55,200,000.00	
13	Other Expenses	L/S	1	2,700,000.00	2,700,000.00	
14	Labour	12	Man/Day	20,000.00	2,880,000.00	73,080,000.00
Subtotal A					101,200,000.00	

# Operating Profit for 18 months for Poultry Production

Total No of Birds Purchased (17 Wk Old)		10,000.00				
Mortality Rate	5%	500.00				
Birds left for Laying		9,500.00				
Birds kept aside for day-old-chick production		350.00				
Birds for Egg Production		9,150.00				
%age of Eggs Laid	75%	6,862.50				
Gross Operating profit for Poultry Farming for Egg & Day-Old Chick Production: 18 Months						
INCOME:	Item	Qty	No. of Trays	Unit Price	Units per year	Total
Anticipated Prod.	Egg prod.	6,862.5	228.75	600	125,241	75,144,375.00
	Chicks Prod.	42.0	1.40	160	22,995	3,679,200.00
	Spent chicken	9,500.0		800		7,600,000.00
	A. Gross Revenue					86,423,575.00
OPERATING COSTS	Item Description			Quantity	Rate	Total
	Protective Equipment			Lot	300,000.00	300,000.00
	17 week old chicks[ layers]			10000	1,200.00	12,000,000.00
	Feeds for Layers			24000	2,300.00	55,200,000.00
	Labour			8 Man/Day	160,000.00	2,880,000.00
	Vet Professional Costs			18	50,000.00	900,000.00
	Antibiotics & Vitamins			18	50,000.00	900,000.00
	General Medicines, Drugs & Chemicals			18	25,000.00	450,000.00
	Other			18	25,000.00	450,000.00
	Total Operating Cost					73,080,000.00
B. Total Operating Costs						73,080,000.00
C. Gross Operating Profit						13,343,575.00
E. Investment Cost						28,120,000.00
F. Payback Period in Years is:						2.11

# Bee Keeping (Apiary)

Bees are beneficial insects and are essential for cross pollination of horticultural crops. The Bee keeping enterprise will add farm income through selling the bee honey and other products

The honey will be branded and sold at Oakwood one stop shopping complex.

The payback period of investment is one year as explained in next slide.





## Gross Margin Analysis for Apiculture Farming -Bee keeping

Item	Details	Qty	Unit Cost	Amount for	Amount for	Amount for
<b>Cost</b>	<b>No. of Kits</b>			<b>1</b>	<b>4</b>	<b>10</b>
Cost of Kit	10 Hive Kit	1	600,000.00	600,000.00	2,400,000.00	6,000,000.00
Cost of Installation						
Wood, BarbedWire, Wires, Nails		1	20,000.00	20,000.00	80,000.00	200,000.00
Labour	Casual Labour for 2 Days/Kit	4	3,000.00	12,000.00	48,000.00	120,000.00
	Equals 4 Man Days/Kit					
<b>Total Cost of Kit &amp; Installation</b>				<b>632,000.00</b>	<b>2,528,000.00</b>	<b>6,320,000.00</b>
Cost of Operator/Site Manager	1 Operator/(1 to 5 Kits)	1	15,000.00	195,000.00	195,000.00	
Monthly Salary of Operator	School Leaver	2	15,000.00			390,000.00
	Operator/(6 to 10 Kits)			<b>827,000.00</b>	<b>2,723,000.00</b>	<b>6,710,000.00</b>
Sales & Marketing Costs	5% of Revenue			45,000.00	180,000.00	450,000.00
<b>Total Cash Outflow Year 1</b>				<b>872,000.00</b>	<b>2,903,000.00</b>	<b>7,160,000.00</b>
Total Annual Cost Year 1	Annual Costs of Hives + Installation			62,000.00	250,000.00	615,000.00
	Salary of Operator			195,000.00	195,000.00	390,000.00
	Total Cost/Year - Kit & Operation			257,000.00	445,000.00	1,005,000.00
Revenue Estimates						
Yield of Honey (Qty) Kg	10Kg/Hive x 10 Hives/Kit x 6 Harvests/Yr	1	600.00	600.00	2,400.00	6,000.00
Sale Value/Year	Price 1500/Kg	1	1,500.00	900,000.00	3,600,000.00	9,000,000.00
Gross Margin/Year				643,000.00	3,155,000.00	7,995,000.00
Gross Margin %age/Year				74%	109%	112%
Payback Period = Beehive Cost/Gross Margin per Year				11 Months	11 Months	11 Months

# Fish Production



## **Paddock Method of Fish Pond using Dam**


In commercial cat fish rearing, earth or concrete ponds are built but for this purpose the dam will be used to grow the fish. This involves partitioning the lower & shallower end of the dam using nets of various sizes and fish is introduced into each partition (called a paddock).

A total of 6000 fish will be introduced in each pond and will be reared for 4 month before maturity.

At maturity the fish can weigh between 2-3kg and is sold at 500 per kg, but for the purpose of this calculation, 1Kg is used as the weight for the mature fish as at four months. The will be sold whole for the fresh market.

# Capital Expenditure & Net Operating profit for Fish

## Gross Operating Profit Analysis for Production Using Paddock Method of Fish Pond

INCOME:	Item	Quantity	Rate	Price	Total	No. of Ponds 5
Anticipated Yield 	Fish	6,000.00	1kg/Fish	500.0	2,400,000.00	12,000,000.00
	Harvested @ premium size 80%	4,800.00				
	A. Gross Income/Pond					2,400,000.00
OPERATING COSTS:	Item Description	Quantity	Rate	Price	Total	
Fish & Feed	Cost of Juvenile Size Fish	6,000.00	Fish	40.00	240,000.00	4,762,500.00
	Fish Feed	105.00	50kg bag	4,500.00	472,500.00	
	Jumbo size fish	1,000.00	Fish	60.00	60,000.00	
	Casual Labour	120.00	Mandays	1,500.00	180,000.00	
Other Costs				15.00%	142,875.00	714,375.00
B. Total Operating Costs					1,095,375.00	5,476,875.00
C. Gross Operating Profit/Pond				54%	1,304,625.00	6,523,125.00

## Capital Expenditure for Paddock Method of Fish Pond using the Dam

A.	Materials	Qty	Unit	Amount	Total
1	Galvanize wire for partitioning (20m X 4Ft)	20.00	Roll	6,500.00	130,000.00
2	Binding wire	20.00	Roll	3,000.00	60,000.00
3	Steel poles	110.00	Pcs	1,500.00	165,000.00
4	Netting of pond (150sqM)	10.00	Roll	10,000.00	100,000.00
5	Pond construction labour	150.00	M/Days	2,000.00	300,000.00
6	Harvesting Grading containers	8.00	Pcs	5,000.00	40,000.00
7	Harvesting nets	8.00	pcs	2,500.00	20,000.00
8	Packing containers	8.00	pcs	2,500.00	20,000.00
9	Others		Lumpsum	20%	137,000.00
10	Transport	2.00	Lumpsum	10,000.00	20,000.00
Total					992,000.00
Nett Profit					5,531,125.00

**Oakwood Rye Agro Allied Farms Limited**  
**Executive Summary of All Enterprises**

Enterprise I	Crops	Capital Expenditure	Operating Profit
Iriigated Horticulture	Tomatoes: <i>Lycopersicon esculentum</i>	7,152,318.00	19,847,682.00
	Dry Bulb Onions: <i>Allum cepa</i>	7,530,318.00	21,269,682.00
	Lettuce: <i>Lactuca sativa</i>	3,142,808.00	8,857,192.00
	Cabbage: <i>Brassica oleracea</i>	2,701,812.00	6,298,188.00
	Capsicum (Sweet or Bell Pepper): <i>Capsicum spp</i>	2,866,800.00	12,733,200.00
	Sweet Corn: <i>Zea mays</i>	1,710,162.00	539,838.00
<b>Subtotal</b>		25,104,218.00	69,545,782.00
Green House	Tomatoes: <i>Lycopersicon esculentum</i>	499,500.00	4,540,500.00
	Capsicum (Sweet or Bell Pepper): <i>Capsicum spp</i>	91,200.00	2,673,600.00
<b>Subtotal</b>			
Field Crops	Red maize	499,500.00	4,540,500.00
	Soya Beans	91,200.00	2,673,600.00

	Other Enterprises	Capital Expenditure	Operating Profit
Poultry			
	Eggs & Chick production	28,120,000.00	13,343,575.00
<b>Subtotal</b>			
Fish Production	Fish		
		992,000.00	6,523,125.00
<b>Subtotal</b>			
Bee Keeping			
	Honey Production	1,083,000.00	9,000,000.00