***Farm Activities, Costs of Inputs and Labour: Production of Organic Pineapple***

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Farm Activity** | | **Date(s)** | **Costs of inputs** | | | | | **Family and hired labour** | | | | |
| No. | Description and operator |  | Input | Unit | Quantity | Price per unit  (GH¢) | Amount (GH¢) |  | Unit | Quantity | Value per unit  (GH¢) | Amount (GH¢) |
| **1.** | **Cutting of trees and stumping** | **16 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **200** | **200** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **2.** | **Clearing** | **16 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **200** | **200** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **3.** | **1st Ploughing with tractor** (At least 30 cm deep!) | **15 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **45** | **45** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **4.** | **Sowing of cover crops** | **12 weeks before planting** | **Mucuna seeds** | **50 kg bag** | **1** | **100** | **100** | Hired Labour or Services | **PD** | **5** | **4** | **20** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **5.** | **Incorporate cover crops (2nd ploughing)** (at least 30 cm deep!) | **3 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **45** | **45** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **6.** | **Organic solid fertilizer application** (Apply on wet ridges!) | **2 weeks before planting** | **Go Green (organic fertilizer)** | **25 kg bag** | **60** | **14** | **840** | Hired Labour or Services | **PD** | **5** | **4** | **20** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **7.** | **Harrowing** | **2 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **30** | **30** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **8.** | **Ridging** | **2 weeks before planting** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **45** | **45** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **9.** | **Plastic mulching** (Wait 2 weeks before planting!) | **2 weeks before planting** | **Plastic mulch** | **Roll** | **3** | **140** | **420** | Hired Labour or Services | **Contract** | **1** | **120** | **120** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **10.** | **Sucker picking and removing of basal leaves and roots** (let the suckers dry upside down for 10 days - at least 5 days of sun) | **2 weeks before planting** | Suckers |  | **26,000** |  | **Own production** | Hired Labour or Services | **PD** | **12** | **4** | **48** |
|  |  | Family Labour | Person-days |  |  |  |
| **11.** | **Sucker collection** | **3 days before planting** |  |  |  |  |  | Hired Labour or Services | **PD** | **12** | **4** | **48** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **12.** | **Sorting and grading of suckers** | **2 days before planting** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **13.** | **Sucker treatment** (dip in mixture of 200 ltr. of water with Fundamental Sulphur and Citric Acid) | **1 day before planting** | **Fundamental Sulphur  Citric Acid** | **kg** | **4** | **6** | **24** | Hired Labour or Services | **PD** | **4** | **4** | **16** |
| **Ltr.** | **0.2** | **15** | **3** | Family Labour | Person-days |  |  |  |
| **14.** | **Mark holes with rope and plant per grade!** (26,000 per acre) | **Day 0** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **120** | **120** |
|  |  | Family Labour | Person-days |  |  |  |
| **15.** | **Counting the number of plants** | **Day 1** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **16.** | **Neem extract application** (100 ml for 200 ltr of water) | **Day 3** | **Neem Extract** | **Ltr.** | **0.6** | **4** | **2.4** | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **17.** | **Weeding** (manually with a hoe!) | **Day 7 Day 30 Day 45** |  |  |  |  |  | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **18.** | **Weeding** (manually with a hoe!) | **Day 60 Day 75 Day 90** |  |  |  |  |  | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **Farm Activity** | | **Date(s)** | **Costs of inputs** | | | | | **Family and hired labour** | | | | |
| No. | Description and operator |  | Input | Unit | Quantity | Price per unit  (GH¢) | Amount (GH¢) |  | Unit | Quantity | Value per unit  (GH¢) | Amount (GH¢) |
| **19.** | **Leaves check: Weighing of D-Leaves** | **Day 91** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **20.** | **Weeding** (manually with a hoe!) | **Day 105 Day 120** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **21.** | **Leaves check: Weighing of D-Leaves** | **Day 121** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **22.** | **Neem extract application** (100 ml for 200 ltr of water) | **Day 122** | **Neem Extract** | **Ltr.** | **0.6** | **4** | **2.4** | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **23.** | **Foliar fertilizer spraying** (1 ltr for 200 ltr. of water) | **Day 130** | **Fontana (NPK + micro elements)** | **Ltr.** | **6.4** | **1** | **6.4** | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **24.** | **Weeding** (manually with a hoe!) | **Day 135 Day 150** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **25.** | **Leaves check: Weighing of D-Leaves** | **Day 151** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **26.** | **Weeding** (manually with a hoe!) | **Day 165 Day 180** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **27.** | **Leaves check: Weighing of D-Leaves** | **Day 181** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **28.** | **Counting the number of plants** | **Day 182** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **29.** | **Weeding** (manually with a hoe!) | **Day 195 Day 210** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **30.** | **Leaves check: Weighing of D-Leaves** | **Day 211** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **31.** | **Foliar fertilizer spraying** (1 ltr for 200 ltr. of water) | **Day 212** | **Fontana (NPK + micro elements)** | **Ltr.** | **6.4** | **1** | **6.4** | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **32.** | **Weeding** (manually with a hoe!) | **Day 225** |  |  |  |  |  | Hired Labour or Services | **PD** | **1** | **4** | **4** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **33.** | **Counting the number of plants** | **Day 235** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **34.** | **Weeding** (manually with a hoe!) | **Day 240** |  |  |  |  |  | Hired Labour or Services | **PD** | **1** | **4** | **4** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **35.** | **Leaves check: Weighing of D-Leaves** | **Day 241** |  |  |  |  |  | Hired Labour or Services |  |  |  |  |
|  |  |  |  | Family Labour | Person-days | **1** | **4** | **4** |
| **36.** | **Forcing (1st time)**  **When D-leaves average over 80g** | **Day 242** | **Ethylene**  **Charcoal** | **kg** | **0.4** | **120** | **48** | Hired Labour or Services | **PD** | **12** | **4** | **48** |
| **25 kg bag** | **0.12** | **6** | **0.72** | Family Labour | Person-days |  |  |  |
| **37.** | **Forcing (2nd time)** | **Day 243** | **Ethylene**  **Charcoal** | **kg** | **0.4** | **120** | **48** | Hired Labour or Services | **PD** | **12** | **4** | **48** |
| **25 kg bag** | **0.12** | **6** | **0.72** | Family Labour | Person-days |  |  |  |

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| **Farm Activity** | | **Date(s)** | **Costs of inputs** | | | | | **Family and hired labour** | | | | |
| No. | Description and operator |  | Input | Unit | Quantity | Price per unit  (GH¢) | Amount (GH¢) |  | Unit | Quantity | Value per unit  (GH¢) | Amount (GH¢) |
| **38.** | **Counting the number of plants** | **Day 244** |  |  |  |  |  | Hired Labour or Services | **PD** | **2** | **4** | **8** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **39.** | **Weeding** (manually with a hoe!) | **Day 255 Day 270 Day 285 Day 300** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **40.** | **Weeding** (manually with a hoe!) | **Day 315 Day 330 Day 345 Day 360** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **41.** | **Neem extract application** (100 ml for 200 ltr of water) | **Day 361** | **Neem Extract** | **Ltr.** | **0.3** | **4** | **1.2** | Hired Labour or Services | **PD** | **6** | **4** | **24** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **42.** | **Check the Brix (with refractometer) and the maturity** (Start to check maturity 130 days after forcing and then every day!) | **Day 370**  **Day 371**  **Day 372**  **Day 373**  **Day 374**  **Day 375**  **Day 376**  **Day 377**  **Day 378**  **Day 379**  **Day 380** |  |  |  |  |  | Hired Labour or Services | **PD** | **4** | **4** | **16** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **43.** | **Harvesting** | **Day 380** |  |  |  |  |  | Hired Labour or Services | **PD** | **40** | **4** | **160** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **44.** | **Transport to packhouse** | **Day 380** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **240** | **240** |
|  |  |  |  | Family Labour | Person-days |  |  |  |
| **45.** | **Cut the peduncle and dip it in mixture of 200 Ltr. of water with Fundamental Sulphur and Citric Acid** | **Day 380** | **Fundamental Sulphur**  **Citric Acid** | **kg** | **0.3** | **6** | **1.8** | Hired Labour or Services | **PD** | **8** | **4** | **32** |
| **Ltr.** | **0.1** | **15** | **1.5** | Family Labour | Person-days |  |  |  |
| **46.** | **Grading, packing in boxes, packing pallets, labelling, quality control** | **Day 380** | **Boxes** | **Box** | **1800** | **2.6** | **4680** | Hired Labour or Services | **PD** | **40** | **4** | **160** |
| **Wooden pallets** | **Pallet** | **26** | **14** | **364** | Family Labour | Person-days |  |  |  |
| **Strapping rolls** | **Roll** | **2** | **50** | **100** | Hired Labour or Services |  |  |  |  |
| **Strapping pins** | **Pack** | **1** | **30** | **30** | Family Labour | Person-days |  |  |  |
| **47.** | **Transport to port for shipment** | **Day 380** |  |  |  |  |  | Hired Labour or Services | **Contract** | **1** | **1 200** | **1 200** |
|  |  |  |  | Family Labour | Person-days |  |  |  |

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|  |  |  |  |  |  | Total Inputs (GH¢): | **6 680** | Hired Labour or Services | Total (PD): | **-** | Total (GH¢): | **3 173** |
| 1 PD (Person-day)  = 5 hours of work | |  |  | Family Labour | Total (PD): | **-** | Total (GH¢): | **24** |