

Detailed Crop Cost Calculations

**USAID - ADVANCE Project,
June 2012**

*The table below indicates the estimated costs per hectare and acres for **RICE** production in Northern Ghana in the 2012 cultivation season*

Estimated Average Costs of Production for Rain-fed Rice Crop in 2012 Season in Northern Region				
Activity Cost	Price per Acre Correctly Grown	Price per Acre Actually Grown	Price per Hectare Correctly Grown	Price per Hectare Actually Grown
Cost of Land				
Cost of plowing (range Ghc 30-50) average Ghc 35.00	35	35	86.45	86.45
Cost of land preparation (double harrowing)	35		86.45	0
Cost of land preparation (using power tiller) irrigation	70		172.9	0
Cost of Certified Seed (40kg at .875 Ghc/kg)	35	35	86.45	86.45
Cost of labor for sowing (10 people / day)	20	20	49.4	49.4
Cost of SRI transplanting-irrigation	100		247	
Cost of Weedicide chemical (second application)	13	13	32.11	32.11
Cost of Fertilizer (2 bags NPK at Ghc 39 each + Urea 1 bag Ghc 35)	113	113	279.11	279.11
Scaring	60	20	148.2	49.4
Cost of Weedicides (1 liter per acre Ghc 6 each)	6	6	14.82	14.82
Cost of Services (spraying/advisory/information) spraying Ghc 5-8 / acre x 2	10	10	24.7	24.7
Cost of harvesting at the field (combine)	120	120	296.4	296.4

Cost of Sacks (Ghc 3 per bag)	60	30	148.2	74.1
Cost of Harvesting/Gathering (manual Labor - 10 people) - 60 if a combine is not used				
Cost of threshing (manual labor) - 60 if a combine is not used				
Transportation Cost (from farm to house) Ghc 1.5 per bag	30	15	74.1	37.05
Total Cost of Production	707	417	1,746.29	1,029.99
Yield per acre (with proper practices yield of 6-18 x 100 kg bags per acre)	20	10	32	24.7
Income from Sales (Ghc 50 per 85 kg bag at harvest and stays stable throughout selling period)	1,000.00	500	1,600.00	1,235.00
Gross profit	1,000.00	500	1,600.00	1,235.00
Net profit	293	83	-146.29	205.01

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*The table below indicates the estimated costs per hectare and acres for **SOYBEAN** production in Northern Ghana in the 2012 cultivation season*

Estimated Average Costs of Production for Soybean Crop in 2012 Season in NORTHERN REGION				
Activity Cost	Price per Acre Correctly Grown	Price per Acre Actually Grown	Price Per Hectare Correctly Grown	Price per Hectare Actually Grown
Cost of Land				
Cost of plowing (range Ghc 30-40) average Ghc 35.00	35	35	86.45	86.45
Cost of land preparation (harrowing)	17.5		43.23	
Cost of Certified Seed (Subsidized) (Ghc 1 per kg at 18kg)	18	10	44.46	24.7
Cost of labor for sowing (range of Ghc 15-30) depending on number of people hired and whether ropes are used for planting in rows (labor costs 1 person Ghc 3 per day on average) Averaging cost of use of dibbler/manual planters	30	25	74.1	61.75
Cost of labor for weeding (1 st , 2 nd) (labor costs 1 person Ghc 3 per day on average) approx. Ghc 15 per acre	30	15	74.1	37.05
Cost of Fertilizer (1 bag NPK at Ghc 39 each)	39		96.33	
Cost of Weedicides (1 liter per acre each; Ghc 7 post emergence, Ghc 16 pre-emergence)	23	7	56.81	17.29

Cost of Inoculants (Ghc 7.50 per 200 gms pack) 1/2 pack used per 20 kg seed per acre	3.75	3.75	9.26	9.26
Cost of Services (spraying/advisory/information) spraying Ghc 5-8 / acre x 2 (or one time)	12	5	29.64	12.35
Cost of harvesting at the field (labor)	20	20	49.4	49.4
Cost of Jute Sacks (Ghc 2.5 per bag)	35	20	86.45	49.4
Cost of mechanical processing (threshing equipment)	25		61.75	
Transportation Cost (from farm to house) Ghc 1-3 per bag, average Ghc 2 per bag	28	16	69.16	39.52
Total Cost of Production	316.25	156.75	781.14	387.17
Yield per acre (with proper practices yield of 6-18 x 100 kg bags per acre)	14	8	23	18
Income from Sales (Ghc 35-100 per 100 kg bag at harvest and stays stable throughout selling period)	770	440	1,265.00	990
Gross profit	770	440	1,265.00	990
Net profit	453.75	283.25	483.86	602.83

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June 2012**

*The table below indicates the estimated costs per hectare and acres for **MAIZE** production in Northern Ghana in the 2012 cultivation season*

Estimated Average Costs of Production for Maize Crop in 2012 Season in NORTHER REGION				
Activity Cost	Price per Acre Correctly Grown	Price per Acre Actually Grown	Price Per Hectare Correctly Grown	Price per Hectare Actually Grown
Cost of Land				
Cost of plowing (range Ghc 30-50) average Ghc 35.00	30	35	74.1	86.45
Cost of land preparation (harrowing)	30		74.1	
Cost of Certified Seed (Ghc 1 subsidized seed per 1kg seed) - 9 kgs used	9	9	22.23	22.23
Cost of labor for sowing (range of Ghc 15-30) depending on number of people hired and whether ropes are used for planting in rows (labor costs 1 person Ghc 3 per day on average) Averaging cost of use of dibbler/manual planters	25	25	61.75	61.75
Cost of labor for weeding (1 st , 2 nd) (labor costs 1 person Ghc 4.5 per day on average) approx. Ghc 15 per acre	22.5	22.5	55.58	55.58
Weed twice per season	20		49.4	
Cost of Fertilizer (1 bag sulphate ammonium – Ghc 39, 2 bags NPK at Ghc 39 each)	117	74	288.99	182.78

Cost of Weedicides (1 liter per acre Ghc 15 per acre) x two applications	30	15	74.1	37.05
Cost of Services (spraying/advisory/information) spraying Ghc 5-8 / acre x 2	20	10	49.4	24.7
Cost of harvesting at the field (labor)	30	30	74.1	74.1
Cost of Jute Sacks (Ghc 2.5 per bag)	25	25	61.75	61.75
Cost of mechanical processing (threshing equipment)	30	30	74.1	74.1
Transportation Cost (from farm to house) Ghc 1 per bag	15	10	37.05	24.7
Total Cost of Production	403.5	285.5	996.65	705.19
Yields per acre (with proper practices yield of 10-18 acre)	15	10	23	18
Income from Sales (Ghc 35-60 per 100 kg bag at harvest and stays stable throughout selling period) if all sold (and maize is used for HH consumption)	750	400	1,035.00	630
Gross profit	750	400	1,650.00	880
Net profit	346.5	114.5	762.3	251.9