

Appendix 2. Cost of sweetpotato vine cuttings

	Activity	Units	Amount	Number of times	Unit price	Number of times per week	Total (using river diversion)	Total (using treadle pump)	Total (using motorised pump)
1	Land clearing	Mandays	3	1	273		819	819	819
2	Harrowing	Mandays	8	1	273		2184	2184	2184
3	Bed making	Mandays	4	1	273		1092	1092	1092
4	Irrigation								
	1. River diversion (man days)	Mandays	1	8	273	3	6552		
	2. Treadle Pump	Mandays	2	8	273	3		13104	
	3. Motorised pump (labour)	Mandays	1	8	273	2			4368
	Fuel	Litres	3	8	240	2			11520
5	Planting+fertilising	Mandays	4	1	273		1092	1092	1092
6	Fertiliser	Kg	9	1	120		1080	1080	1080
7	Vines	50Kg bag	20	1	300		6000	6000	6000
8	Weeding	Mandays	3	2	273		1638	1638	1638
	First vine harvest				Sub-totals		20457	27009	29793
9	Fertilizer	kg	9	1	120		1080	1080	1080
10	Fertilizer application	mandays	1	1	273		273	273	273
11	Weeding	mandays	3	2	273		1638	1638	1638
12	Watering								
	1. River diversion	mandays	1	8	273	3	6552		
	2. Treadle pump	mandays	2	8	273	3		13104	
	3. Motorised pump (labour)	mandays	1	8	273	2			4368
	Fuel	litres	3	8	240	2			11520
	Second vine harvest				Sub-totals		9543	16095	18879
					Sub-totals for 2 harvests		30000	43104	48672
13	Fertilizer	kg	9	1	120		1080	1080	1080
14	Fertilizer application	mandays	1	1	273		273	273	273
15	Weeding	mandays	3	2	273		1638	1638	1638
16	Watering								
	1. River diversion	mandays	1	8	273	3	6552		
	2. Treadle pump	mandays	2	8	273	3		13104	

3. Motorised pump (labour)	mandays	1	8	273	2			4368
Fuel	litres	3	8	240	2			11520
Third vine harvest				Sub-totals		9543	16095	18879
				Grand total for 3 harve		39543	59199	67551
Expected harvest from 1x20m bed	50kg bag (Volume)	13	1		10	130		
Expected harvest from 1x20m bed	kg	117	1		10	1170		
Break-even price per 50kg bag (volume) at first harvest						157.36	207.76	229.18
Break-even price per 50kg bag (volume) at second harvest						115.38	165.78	187.20
Break-even price per 50kg bag (volume) at third harvest						101.39	151.79	173.21
Assuming the 50 kg bag volume weighs 9kg:								
Break-even price per kg at first harvest						17.48	23.08	25.46
Break-even price per kg at second harvest						12.82	18.42	20.80
Break-even price per kg at third harvest						11.27	16.87	19.25