

**POSTHARVEST TRAINING ASSIGNMENT 6**

**TITLE:**

<b>Polythene sheet</b>	<b>10m</b>	<b>100</b>	<b>1,000</b>
<b>Packaging materials</b>	<b>5pkts</b>	<b>100</b>	<b>200</b>
<b>Sealer</b>	<b>1</b>	<b>3,000</b>	<b>3,000</b>
<b>Charcoal</b>	<b>1bag</b>	<b>1,000</b>	<b>1,000</b>
<b>Salt</b>	<b>1 50g pack</b>	<b>30</b>	<b>30</b>
<b>Wooden Cooking spoons</b>	<b>2</b>	<b>50</b>	<b>100</b>
<b>Fuel</b>	<b>30 liters</b>		

**Table 2: COST BENEFIT WORKSHEET FOR AFRICAN NIGHT SHADE**

<b>Assume harvest 1000 kg</b>	<b>Current Practice</b>	<b>New Practice</b>
Describe:	<b>No drying</b>	<b>Blanching and Drying using solar drier</b>
Costs		
Purchase of solar drier		7,000 ksh.
Blanching 1000kg vegetable		3,000 ksh.
Purchase of four cooking pans		4,000 ksh.
Purchase of two charcoal stoves		2,000 ksh.
Purchase of packaging materials and sealer		3,500 ksh.
Relative cost		19,500 ksh.
EXPECTED BENEFITS		Reduced perishability, improved shelf life, reduced transport costs due to reduced bulkiness of the produce, more vegetable quantities packed in smaller packages and increased value as dried vegetables will fetch a higher price.
% losses	10 %	0 %
Amount for sale	<b>900 kg</b>	<b>1,000 kg fresh</b>
<b>7kg of fresh vegetable are required to make one kg of dry vegetables.</b>		<b>143 kg dry</b>
Value/kg	<b>40 Ksh/ kg</b> <b>40 Ksh x 900 kg = 36,000</b>	<b>400 Ksh/kg</b> <b>400 Ksh x 143 kg = 57,200</b>
Total market value	<b>36,000 Ksh</b>	<b>57,200 Ksh</b>
<b>Value - Costs</b>		<b>57,200 – 19,500 = 37,700ksh</b>
<b>Relative profit</b>		<b>1,700 Ksh profit on the first load of 1000kg. The first use pays for all the equipment (solar dryer, cooking pans, stoves, sealer).</b>  <b>Each future batch of 1000 kg will provide additional profits since 57,200- 6000 = 51,200.</b>  <b>51,200-36,000 = 15,200 Ksh</b>