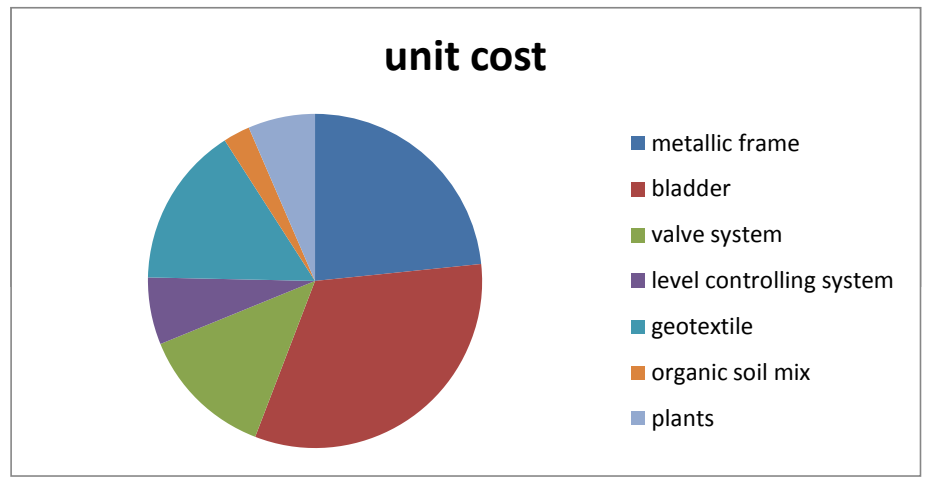


**unit cost**

	unit price	amount	price
metallic frame	1.5 \$/lb	24 ft	36 USD
bladder	50 \$/unit	1 -	50 USD
valve system	10 \$/unit	2 -	20 USD
level controlling system	10 \$/unit	1 -	10 USD
geotextile	3 \$/sf	8 sf	24 USD
organic soil mix	1 \$/cf	4 cf	4 USD
plants	2.5 \$/plant	4 plants	10 USD
<b>total unit cost</b>			<b>154 USD</b>



food production	unit price	total income
tomato	260 lb/year      0.5 \$/lb	130 \$/year
strawberry	37 lb/year      2.5 \$/lb	92.5 \$/year

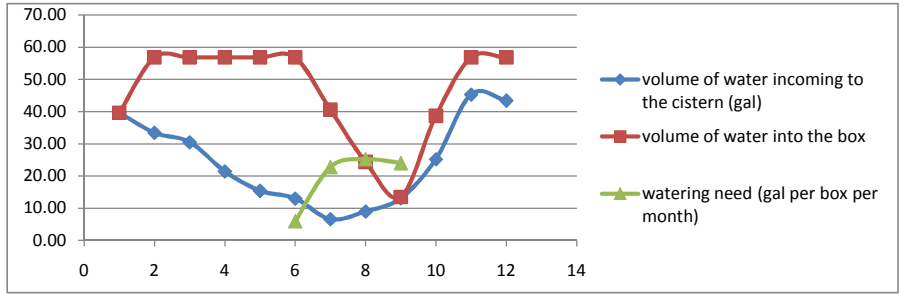
**assembly + combining cost**

	unit price	amount	price	spec
fastenings	0.5 \$/unit	12 -		strong stainless cage nut + screw

**maintaining cost**

dimensions of the box	
height	2 ft
length	2 ft
depth	2 ft
cistern volume	7.6 cft 56.85 gal

assumed rainfall area covered by the box: 12 sf



**watering need**

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
tomato plant													
day after transplanting					0	30	60	90	100				
watering need (gal per sf per day)						0.05	0.19	0.21	0.2				
watering need (gal per box per month)						6.00	22.80	25.20	24.00				78.00
rainfall in Auburn, WA													
Inch	5.3	4.47	4.08	2.87	2.06	1.74	0.88	1.2	1.75	3.37	6.06	5.81	39.59
volume of water incoming to the cistern (gal)	39.64	33.44	30.52	21.47	15.41	13.02	6.58	8.98	13.09	25.21	45.33	43.46	296.13
volume of water into the box	39.64	56.85	56.85	56.85	56.85	56.85	40.63	24.41	13.50	38.70	56.85	56.85	
volume of water outgoing from the box	0	16.23	30.52	21.47	15.41	7.02	0.00	0.00	0.00	0.00	27.18	43.46	161.29

## enviro wall as cisterns

water storage required

460,562.16 gal

	one box	block of 24 boxes
<i>water storage</i>	80 gal	1920 gal
<i>amount needed</i>	5757	240
<i>price per unit</i>	150	3600
<i>total price</i>	\$ 863,554	
<i>savings / year</i>	\$ 10,000	
<i>footprint</i>	23028 sf 11514 linear feet	11514 sf 5757 linear feet
<i>food production potential</i>		
one box - tomatoes/strawberries	50 \$/year	1200 \$/year
total food production potential	287,851.35 \$/year	