

ECONOMICS OF THE PRODUCTION

Leaf lettuce result per harvest

Growing period: 10 days seedlings preparation + 28 days growing in the hydroponics system

Conversion rate: 1USD = 21,9CZK (Dec2020)

System size: 25 plants with distance 15cm (5 stories, 5 plants per story)

COSTS - OPTIMUM SCENARIO

N.O.	Material	Work	Specification	Unit	Unit cost CZK	Quantity	Cost CZK	Cost USD
1	Electricity		14hrs/day	1 kWh	5	68,13	341	15,8
2	Water			1 m3	89,66	0,07	6	0,3
3	Fertilizer		Terra Aquatica Bio Thrive Grow 500ml	each	249	0,14	35	1,6
4	Substrate		Rockwool cube 3,6 x 3,6cm	each	2	25	50	2,3
5	Seeds		Leaf lettuce Dubáček "Gagarin"	each	1	25	25	1,2
TOTAL COST:							457	21,25
COST PER PIECE:							18	0,85

COSTS - LOW COST SCENARIO

N.O.	Material	Work	Specification	Unit	Unit cost CZK	Quantity	Cost CZK	Cost USD
1	Electricity		14hrs/day	1 kWh	5	68,13	341	15,8
2	Water			1 m3	89,66	0,07	6	0,3
3	Fertilizer		Terra Aquatica Bio Thrive Grow 500ml	each	249	0,14	35	1,6
4	Substrate		Rockwool cube 2 x 2cm	each	1	25	25	1,2
5	Seeds		Lettuce (dubáček, casini)	each	0,1	25	3	0,1
TOTAL COST:							409	19,0
COST PER PIECE:							16	0,76

COMMENTS

- 1) Low cost scenario counts with smaller Rockwool cubes which shall not have any impact on quality
- 2) Low cost seeds are simillar to those you can buy in hobby market in packet. The quality is notably lower, but still acceptable, you may fail few times before you find the right product.
Make sure to buy fresh seeds.