

GROWTH AND YIELD OF LETTUCES
(*Lactuca sativa* L) AS INFLUENCED BY
CHARCOAL, SAW DUST AND REFUSED
TEA WITH COW DUNG



BY

DIVYA SHRI.VIVEGANANTHAN



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DEPARTMENT OF BIOSYSTEMS TECHNOLOGY

FACULTY OF TECHNOLOGY

EASTERN UNIVERSITY

SRI LANKA

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ABSTRACT

This experiment was conducted to study the influence of refused tea, charcoal and saw dust on growth and yield of lettuce (*Lactuca sativa* L.) is a leafy vegetable. It was arranged in a randomized complete block design (RCBD) with eight treatments contained various concentrations of organic materials and each treatment had 6 replications. Potting mixtures were soil: cow dung: organic material in different ratios as treatments. Seeds were sown in nursery trays and then healthy plants were transplanted to each polybag. Observation was made every week. Growth parameters were taken in regular interval and lettuce yield was calculated based on fresh weight of plant. The results showed that addition of refused tea and saw dust to the potting mixture positively influenced and improved the plant growth characteristics such as plant height, number of leaves, length and width of leaves, leaf area and also fresh and dry weights of shoot and root. Low results were observed in the treatment contained charcoal than refused tea and saw dust. At the harvest, treatment T4 and T7 which had refuse tea in the potting mixture and treatments T5 and T8 which had saw dust in their potting mixture attained positive result than other treatments. The highest yield of lettuces was obtained with the influence of refused tea (1.9 ton/ha in T4 and 1.61 ton/ha in T7) and saw dust (1.18 ton/ha in T4 and 1.35 ton/ha in T8). The highest value of overall acceptability was noted in treatments T7 followed by T5, T4 and T3. The T7 treatment had better overall acceptability than other treatments based on the sensory evaluation.

TABLE OF CONTENT

ABSTRACT.....	i
ACKNOWLEDGEMENT	ii
TABLE OF CONTENT	iii
LIST OF TABLES	viii
LIST OF FIGURES	ix
CHAPTER 01	1
INTRODUCTION.....	1
CHAPTER 02	5
2.0 LITERATURE REVIEW.....	5
2.1. Lettuces.....	5
2.1.1. Scientific classification	5
2.1.2. Origin and distribution of <i>Lactuca sativa</i> L.	6
2.1.3. Climatic requirements.....	6
2.1.4. Varieties of lettuces.....	7
□ Crisphead	7
□ Butter head	7
□ Cos or Romaine.....	8
□ Loose Leaf	8

2.1.5. Nutrition values of lettuces	9
2.1.6 Uses of lettuces	10
□ Medicinal	10
□ Calorie yielding nutrients.....	10
2.1.7 Harvesting and marketing.....	10
2.1.8 Pest and diseases	11
2.1.9 Postharvest handling.....	11
2.2 Organic plant waste material as fertilizer	12
2.3 Refused tea	12
2.3.1 Initial properties of refused tea	13
2.4 Saw dust.....	15
2.4.1. Nutrients available on saw dust	15
2.5 Charcoal.....	17
2.5.1. Nutrient available in Charcoal	18
CHAPTER 03	19
3.0 MATERIALS AND METHODS	19
3.1 Experimental site.....	19
3.2 Preparation of the poly bags	19
3.3 Collection of seeds.....	20
3.4 Collection of raw materials.....	20

3.5 The treatment in this experiment was as follows:	20
3.6 Experimental design	21
3.7 Preparation of polybag mixtures.....	22
3.8 Agronomic practices.....	22
3.8.1 Seeding.....	22
3.8.2 Land preparation	22
3.8.3 Transplanting	22
3.8.4 Irrigation	22
3.8.5 Fertilizer application	23
3.8.6 Weeding	23
3.8.7 Pest and disease management	23
3.8.8 Harvesting	23
3.9 Measurements.....	23
3.9.1 Germination percentage.....	23
3.9.2 Growth parameters.....	24
3.9.2.1 Height of plant.....	24
3.9.2.2 Number of leaves	24
3.9.3 Yield parameters	24
3.9.3.1 Length of stem.....	24
3.9.3.2 Length of root.....	24

3.9.3.3 Number of leaves	24
3.9.3.4 Length of leaf	25
3.9.3.5 Width of leaf.....	25
3.9.3.6 Leaf area.....	25
3.9.3.7 Fresh weight of plant.....	25
3.9.3.8 Fresh weight of shoot	25
3.9.3.9 Fresh weight of root	25
3.9.3.10 Air dry weight of plant.....	25
3.9.4 Sensory evaluation test	26
3.10 Statistical analysis.....	26
CHAPTER 04	27
4.0 RESULTS AND DISCUSSION	27
4.1 Germination percentage.....	27
4.2. Height of the plant	27
4.3. Number of leaves.....	30
4.3 Leaf length and width.....	33
4.4 Leaf area	34
4.5. Lengths of stem and root	35
4.6 Fresh weights of shoot and root.....	37
4.7 Fresh and dry weights of plant	38

4.10 Average lettuce yield	41
4.9 Sensory evaluation.....	45
CHAPTER 5	48
CONCLUSION	49
Recommendations	50
REFERENCES.....	51

LIST OF TABLES

Table 3. 1: Treatments in the experiment	20
Table 4. 1 : Influence of saw dust, refused tea and charcoal on height of plant(cm) per plant <i>Lactuca sativa</i> (L) at 4 th , 8 th and 10 th weeks after transplanting.....	28
Table 4.2: Influence of saw dust, refused tea and charcoal on number of leaves per plant <i>Lactuca sativa</i> (L) at 4th, 8th and 10th weeks after transplanting.	31
Table 4. 3: Influence of saw dust, refused tea and charcoal on average width, length and area of leaves of <i>Lactuca sativa</i> L after harvesting (after 10 th week).....	34
Table 4. 4: Effect of saw dust, refused tea and charcoal on average lengths of stem and root of <i>Lactuca sativa</i> (L) after harvesting.....	36
Table 4. 5: Influence of saw dust, refused tea and charcoal on average shoot and root weights of <i>Lactuca sativa</i> L after harvesting.....	38
Table 4. 6: Influence of saw dust, refused tea and charcoal on average fresh and air-dry weights of <i>Lactuca sativa</i> (L) after harvesting.	40
Table 4. 7: Influence of saw dust, refused tea and charcoal on average fresh weight of plant per m ² of <i>Lactuca sativa</i> (L) after harvesting.	42
Table 4. 8: Influence of saw dust, refused tea and charcoal on attributes (scale 1-6) of sensory evaluation of <i>Lactuca sativa</i> .L after harvesting (at 10 th week).	47

LIST OF FIGURES

Figure 3. 1: Poly bag used in the experiment.....	19
Figure 3. 3: Field layout.....	21
Figure 4. 1: The average yield of lettuces in tons per hectares influenced by refused tea saw dust and charcoal after harvesting.....	43
Figure 4.2: Figure 4.2: Overall result of Sensory evaluation of <i>Lactuca sativa</i> (L).	48