

CONTENTS

	Page
ACKNOWLEDGMENT	-
INTRODUCTION	1
REVIEW OF LITERATURE	3
MATERIALS AND METHODS	16
RESULTS AND DISCUSSION	20
I. Nitrogen Fertilization Experiment	20
I.A. Effect of Foliar Application of Nitrogen on the Vegetative growth and Chemical Contents of Nicotiana sp.	20
a. Vegetative Growth	20
1.a. <i>Nicotiana rustica</i>	20
2.a. <i>Nicotiana alata</i>	31
b. Chemical Analysis	41
1.b. <i>Nicotiana rustica</i>	41
2.b. <i>Nicotiana alata</i>	44
I.B. Effect of Soil Application of Nitrogen on the Vegetative Growth and Chemical Contents of Nicotiana sp.	48
a. Vegetative Growth	48
1.a. <i>Nicotiana rustica</i>	48
2.a. <i>Nicotiana alata</i>	56
b. Chemical Analysis	64
1.b. <i>Nicotiana rustics</i>	64
2.b. <i>Nicotiana alata</i>	67

	Page
Topping Experiment	71
II. Effect of Topping on Vegetative Growth and Chemical	
Contents of <i>Nicotiana</i> sp.	71
1. <i>Nicotiana rustica</i>	71
1.a. Vegetative Growth	
1.b. Chemical Analysis	78
2. <i>Nicotiana alata</i>	81
2.a. Vegetative Growth	81
2.b. Chemical Analysis	89
SUMMARY	93
CONCLUSION	100
LITERATURE CITED	101
ARABIC SUMMARY	