

CONTENTS

	Page
INTRODUCTION.	1
REVIEW OF LITERATURE.	3
I- Effect of fertilization treatments on growth, yield and chemical content of forage plants.	3
II- Effect of different forage mixtures on growth, yield and chemical content of forage plants.	11
III- Effect of cutting dates on growth, yield and chemical content of forage plants.	16
MATERIALS AND METHODS.	22
RESULTS AND DISCUSSION.	28
FIRST STUDY: EFFECT OF FERTILIZATION TREATMENTS AND DIFFERENT FORAGE MIXTURES ON GROWTH, YIELD AND CHEMICAL CONTENT OF FORAGE MIXTURES.	
I- EFFECT OF FERTILIZATION TREATMENTS ON THE BOTANICAL COMPOSITION, GROWTH, YIELD AND CHEMICAL CONTENT OF FORAGE MIXTURES.	28
I-1. Effect of fertilization treatments on the botanical composition.	28
1. Meskawy clover %.	28
2. The second part of mixture %.	30
3. Weeds %.	31
I-2. Effect of fertilization treatments on growth characters and yield components of clover.	32
1. Plant height.	32
2. Number of branches/plant.	32
3. Number of leaves/plant.	34
4. Weight of different parts of plant.	34
5. Stems: leaves ratio.	34
6. Number of stems/m ²	35
7. Dry matter content of the obtained forage.	35
I-3. Effect of fertilization treatments on forage yields.	36
1. Green forage yield.	36
2. Dry forage yield.	39
I-4. Effect of fertilization treatments on the chemical content of the obtained forage.	41
1. N-content.	41
2. P-content.	44
3. K-content.	45
4. C F %.	45
5. Ash %.	46
II- EFFECT OF DIFFERENT FORAGE MIXTURES ON THE BOTANICAL COMPOSITION, GROWTH, YIELD AND CHEMICAL CONTENT OF FORAGE MIXTURES.	
II-1. Effect of different forage mixtures on the botanical composition.	48
1. Meskawy clover %.	48
2. The second part of mixture %.	51
3. Weeds %.	52

II-2.	Effect of different forage mixtures on growth characters and yield components of clover.	53
1.	Plant height.	53
2.	Number of branches/plant.	56
3.	Number of leaves/plant.	56
4.	Weight of different parts of plant.	57
5.	Stems: leaves ratio.	58
6.	Number of stems/m ²	58
7.	Dry matter content of the obtained forage.	59
II-3.	Effect of different forage mixtures on forage yields... ..	60
1.	Green forage yield.	60
2.	Dry forage yield.	65
II-4.	Effect of different forage mixtures on the chemical content of the obtained forage.	69
1.	N-content.	69
2.	P-content.	73
3.	K-content.	74
4.	CF%.	75
5.	Ash %.	76
III-	EFFECT OF THE INTERACTION OF FERTILIZATION TREATMENTS AND DIFFERENT FORAGE MIXTURES ON THE BOTANICAL COMPOSITION, GROWTH, YIELD AND CHEMICAL CONTENT OF FORAGE MIXTURES.	77
SECOND STUDY:	EFFECT OF N, P LEVELS AND CUTTING DATES ON GROWTH, YIELD AND CHEMICAL CONTENT OF CLOVER.	
I-	EFFECT OF N FERTILIZATION ON GROWTH CHARACTERS, YIELD AND CHEMICAL CONTENT OF CLOVER.	86
I-1.	Effect of N fertilization on growth characters and yield components of clover.	86
1.	Plant height.	86
2.	Number of branches/plant.	88
3.	Number of leaves/plant.	88
4.	Fresh weight of leaves/plant.	89
5.	Fresh weight of stems/plant.	89
6.	Total fresh weight/plant.	89
7.	Dry weight of leaves/plant.	90
8.	Dry weight of stems/plant.	90
9.	Total dry weight/plant.	90
10.	Stems: leaves ratio.	91
11.	Number of stems/m ²	91
12.	Dry matter content.	91
I-2.	Effect of N fertilization on forage yield of clover... ..	92
1.	Green forage yield.	92
2.	Dry forage yield.	94
I-3.	Effect of N fertilization on chemical content of clover.	95
1.	N-content.	95
2.	P-content.	97
3.	K-content.	98
4.	CF %.	99
5.	Ash %.	100