

Contents

Table of Contents

Page

Part I

Introduction.....	1
--------------------------	----------

Part II

Review of Literature.....	4
1- Origin.....	4
2- Geographical Distribution.....	4
3- Ecology.....	6
4- Taxonomy.....	9
5- Allelopathic Effects.....	16
6- Economic potentialities.....	17
7- Control Measurements.....	21

Part III

Materials and Methods.....	26
1- Field studies.....	26
1-1 Vegetation analysis.....	27
1-2 species Identification.....	28
2- Laboratory investigations.....	31
2-1 Soil analysis.....	31
2-2 Plant analysis.....	33
3- Herbarium works.....	35
4- Data analysis.....	35

Part IV

Study Area.....	36
1- Rainfall.....	36
2- Temperature.....	37
3- Relative humidity.....	37
4- Wind velocity	38

Part V

Results.....	43
1- Geographical distribution.....	43
2- Vegetation analysis.....	47
2-1 Floristic composition.....	47
2-2 Vegetation classification.....	54
2-3 Biomass production.....	63
2-4 Ecological Relationship.....	66
3- Soil characteristics.....	68
4- Habitat types.....	78
5- Morphological Characteristics.....	84

5-1 Description.....	84
5-2 Measurements.....	85
6- Phenology.....	94
7- Anatomical Characteristics	96
7-1 Leaves.....	96
7-2 Culms.....	102
7-3 Fiber length.....	105
8- Chemical constituents.....	114
8-1 Water contents	114
8-2 Crude fiber.....	114
8-3 Total Nitrogen.....	114
8-4 Crude Protein.....	115

Part VI

Discussion.....	119
------------------------	------------

Part VII

References.....	131
------------------------	------------

Summary.....	150
---------------------	------------

Appendix1.....	
-----------------------	--

Appendix2.....	
-----------------------	--

Arabic Summary.....	
----------------------------	--