

TABLE OF CONTENTS

	Page
ACKNOWLEDGEMENTS	(iii)
EXECUTIVE SUMMARY	(iv)
LIST OF FIGURES	(xi)
LIST OF TABLES	(xii)
1. LITERATURE STUDY, RATIONALE AND AIMS	1
1.1 Introduction	1
1.2 Water Requirement	1
1.3 Evaporative Demand	1
1.4 Turf Grass Water use	2
1.5 Factors Affecting Water Use	2
1.6 Procedures in Measuring Water Use	4
1.7 Typical Water Requirement Levels	5
1.8 Rationale for the Study	6
1.9 Objectives of the Study	6
2. MATERIALS AND METHODS	7
3. RESULTS AND DISCUSSION	14
3.1 Background	14
3.2 Evapotranspiration of Numex Sahara Grass	15
3.3 Evapotranspiration of Creeping Bent Grass	18
3.4 Evapotranspiration of Kikuyu Grass	20
3.5 Evapotranspiration of Bayview Grass	23
3.6 Evapotranspiration of Speedy Royal Grass	26
3.7 Evapotranspiration of Florida Grass	28
3.8 Comparative Water Use of Turf Grasses	31
3.8.1 Constant Mowing Height	31
3.8.2 Mowing Height used in the Field	32
3.8.3 Influence of Mowing Height on Comparative Water Use	34
3.8.4 Influence of Fertilizer on Comparative Water use	35
4. SUMMARY AND CONCLUSIONS	37
4.1 Turf Grass Water Use	37
4.2 Effect of Mowing Height on Turf Grass Water Use	39
4.3 Effect of Fertilizer Application on Water Use of Turf Grass	40
4.4 Conclusions	40

4.5	Technology Transfer	41
4.6	Research Considerations	42
5.	REFERENCES	44
	APPENDIX A	
	Evapotranspiration Data	
	Crop Factors	
	Statistical Analysis	
	Treatment Differences	
	APPENDIX B	
	Climatological Data	