

TABLE OF CONTENTS

LIST OF TABLES	vi
LIST OF FIGURES	vii
Chapter 1: Investigation of the Transmission of Tobacco Ringspot Virus	1
Introduction.....	1
Materials and Methods.....	2
Soil Fumigation Experiment.....	3
Time-of-Infection Experiments	3
Testing of Insect Species for the Ability to Transmit.....	9
Results.....	13
Soil Fumigation Experiment.....	13
Time-of-Infection Experiments	15
Insect Transmission Tests.....	16
Discussion.....	17
References	21
Chapter 2: New Indigenous Hosts of Tobacco Ringspot Virus and Nematode Transmission From Selected Species	24
Introduction.....	24
Materials and Methods.....	25
Determination of Weed and Crop Hosts.....	25
Comparison of Isolates	26
Nematode Transmission from Weed Hosts	29
Results.....	30
Weed and Crop Hosts of TRSV.....	30
Comparison of Serological Strains from a Single Tobacco Field.....	37
Discussion.....	39
References	40
Chapter 3: Transmission of Serological Strains of Tobacco Ringspot Virus by Xiphinema Americanum	42
Introduction.....	42
Materials and Methods.....	43
Results and Discussion	46
References.....	49
APPENDICES	52
Appendix A: Inoculation Procedures.....	53
Appendix B: Field Data for Insect Transmission Tests.....	55