TABLE OF CONTENTS

Page

Page

Page

Page

Page

LIST OF TABLES

LIST OF FIGURES

Figure **Page**

LIST OF APPENDIX TABLES

Page

ACRONYMS, ABBREVIATIONS AND DEFINITIONS

OM	Organic matter
N , P , K	Nitrogen , Phosphorus , Potassium
% N	Total nitrogen in plant (%)
^{15}N	Isotope Nitrogen 15
%Ndfa	Percent nitrogen derived from atmosphere
%Ndff	Percent nitrogen derived from fertilizer
%Ndfs	Percent nitrogen derived from soil
fNdfa	Fraction of nitrogen in plant derived from air
fNdff	Fraction of nitrogen in plant derived from fertilizer
fNdfs	Fraction of nitrogen in plant derived from soil
$\%^{15}N$ abundance	Number of ^{15}N atoms present in 100 atoms of all isotopes of N (which are normally ^{14}N and ^{15}N) in the material.
^{15}N natural abundance (normally expressed as atom %)	Number of ^{15}N atoms naturally present in 100 atoms of all isotopes of N in a material. This value is usually referred to as 0.3660 atom %.
$\%^{15}N$ atom excess	The difference between % ^{15}N abundance of the material and the % ^{15}N natural abundance
$\%^{15}N$ enrichment	Has the same meaning as "% ^{15}N atom excess"
DAP	Day after planting

RGR (Relative growth rate)	A measurement of the productivity of a plant, defined as the increase in dry mass per unit of plant mass over a specified period of time.
FUE (Fertilizer use efficiency)	Fertilizer recovery in crop production systems can be computed using many different methods.