

Contents

Preface.....vii

About the Editor.....ix

Contributorsxi

Chapter 1 Woody Plant Structure 1

Todd P. West

Chapter 2 Plant Growth and Development 15

Bryan J. Peterson and Renae E. Moran

Chapter 3 Photosynthesis and Respiration in Woody Plants49

Wenhao Dai and Qi Zhang

Chapter 4 Plant Growth Regulation.....69

Yoo Gyeong Park, Abinaya Manivannan, Prabhakaran Soundararajan, and Byoung Ryong Jeong

Chapter 5 Plant Response to Drought Stress93

Rakefet David-Schwartz, Hanan Stein, Eran Raveh, David Granot, Nir Carmi, and Tamir Klein

Chapter 6 Plant Response to Mineral Nutrient Deficiency 133

Danqiong Huang and Wenhao Dai

Chapter 7 Plant Response to Salinity Stress 155

Qi Zhang and Wenhao Dai

Chapter 8 Plant Response to Low Temperature..... 175

Guo-Qing Song

Chapter 9 Plant Response to Oxidative Stress 193

Rolston St. Hilaire

Chapter 10 Plants Response to Heavy Metal Stress203

Raj Narayan Roy and Bidyut Saha

Chapter 11 Plant Response to Multiple Stresses.....259

Da-Gang Hu and Yu-Jin Hao

Index.....279