



Contents

Unit 1

Tree identification and measurement P1

Text A Tree identification P2

Text B Measurement of tree diameter P17

Unit 2

The value of trees P21

Text A Non-timber products from trees and forests P22

Text B Some commercially important trees P36

Unit 3

Forest ecology P41

Text A Physical elements of the forest ecosystem P43

Text B Interactions between soil conditions and tree growth P55

Unit 4

History of forestry development P59

Text A The history of tree planting and planted forests before 1900 P60

Text B Forestland tenure reform in China P73

Unit 5

Pest control P77

Text A Forest tree diseases P78

Text B Forest tree insects and methods of insect control P95

Unit 6

Forest protection P99

Text A Forest damage by animals P100

Text B Historic significance of wildfires P117

Unit 7

Genetic breeding of trees P121

Text A Seed development and harvest P123

Text B The seed that slept for 1,200 years P134

Unit 8

Modern forestry technology P139

Text A Are genetically modified trees a threat to forests? P141

Text B The polymerase chain reaction (PCR) P153