Appendix M
Silvical Information of Importance

I. Latin name and author(s)

II. Common, local, and trade names

III. Introduction
   A. Relative size of tree, also maximum height, diameter, and crown spread attained
   B. Special features (nonwood uses)—medicinal, poisonous, biomass, fodder, tannin, fruits, nuts, nitrogen fixation, green manure, ornamental, soil stabilization, windbreaks, drought and frost resistance
   C. Most important uses, wood specific gravity, color, figure, working characteristics, durability, natural resistance to insects and decay, preservative treatment and uses of treated products, other good and bad features

IV. Dendrology
   A. Drawings of leaves, twigs, bark, flowers, fruits, general shape of open-grown tree
   B. Map and verbal description of the geographic range, elevational range, latitude, and artificial extension of range

V. Habitat
   A. Temperature and rainfall, annual maxima and minima and seasonal variations
   B. Soil taxonomy if known; type of soil on which tree is most commonly found
   C. Soil conditions to which the tree is suited; e.g., pH, drainage, and texture
   D. Landscape settings; e.g., valley bottoms, rolling topography, steep side slopes, etc.; also tolerance to degraded (refractory) sites, salinity, flooding, drought, other desirable or undesirable species or site relationships, etc.
   E. Tolerance of shade and other factors not previously listed; associated trees and shrubs by name

VI. Life History
   A. Pollination, flowering, and fruiting
   B. Size of fruits and/or seeds, number of seeds or fruits per tree or flower cluster
   C. Age or size at which trees start and reach peak seed production; seed dispersal, durability, germination
   D. Conditions for natural regeneration; sites, shade, associates
   E. Silvical role in natural forests; occurrence, abundance, gregariousness, degree of dominance
   F. Growth in natural forests; relative to size, crown position and dimension, age, yields per unit of area and time
   G. Natural maturity, age, size, growth trends, mortality

VII. Silviculture
   A. Inducement of natural regeneration, early response to weeding and liberation
   B. Growth acceleration of established trees in response to treatment, rotations, potential yields
   C. Silvicultural systems for natural forests
   D. Seed technology, recommended conditions for storage, durability, germination pretreatment, germination percentage expected
   E. Nursery technology; bed conditions or containers; soil; sowing density; use of shade, water, fertilizers, and pesticides
   F. Recommended planting stock age, size, standards, preconditioning
   G. Planting technique, land preparation, spacing, depth, critical care
   H. Plantation responses to fertilization, pruning, and thinning
   I. Need for and control of insects, pathogens, and unwanted vegetative competition
   J. Growth and yields from plantations, rotation age
   K. Potentials as an associate with other crops
   L. Postharvest regeneration

VIII. Genetic races, varieties, hybrids, goals, and accomplishments to date

IX. Seed sources

X. Literature