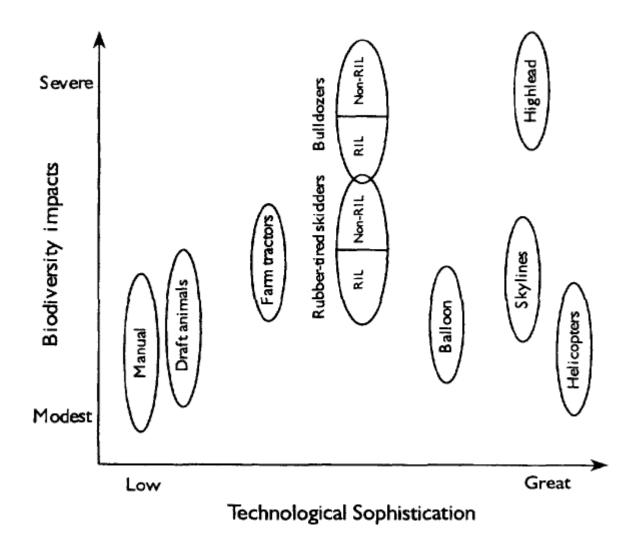
Biodiversity Conservation in the Context of Tropical Forest Management



**Figure 1** Logging intensities (m³/ha) for tropical forests. In most of these studies, as in most logging areas in the tropics, felling was with chainsaws and yarding with bulldozers or articulated skidders with rubber tires.

<1 m³/ha — 50 m³/ha — 100 m³/ha ----- 150 m 3/ha Bolivia Venezuela Indonesia Malaysia (Gullison and Hardner 1993) (Kammesheidt 1998) (Bertault and Sist 1997) (Pinard and Putz 1996) Costa Rica Suriname Philippines (Hendrison 1990) (Webb 1998) (Nicholson 1979)

> Venezuela (Mason 1996)

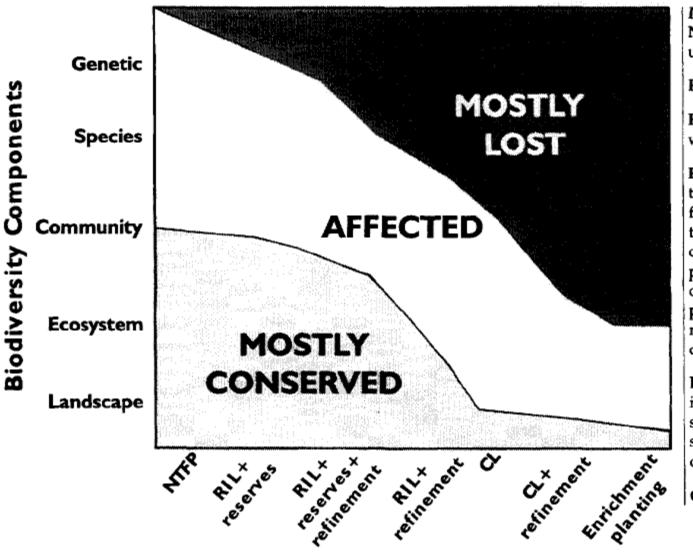
> > Australia (Crome et al. 1992)

Brazil Malaysia (Johns et al. 1996) (Pinard and Putz 1996)

Australia (Crome et al. 1997)

Uganda (Chapman and Chapman 1997)

Figure 4 Expected effects of a range of forest uses on the components of biodiversity



Legend:

NTFP = Non-timber forest products

RIL = Reduced-impact logging

**Reserves** = Protected areas within logged units

Refinement = Silvicultural treatments such as liberation of future crop trees from competition, which can substantially change the physiognomy, composition, and trophic structure of forest stands which are applied to increase volume increments and relative densities of commercial timber species

Enrichment planting = Increasing the stocking of commercial species by planting seedlings (or seeds) in logging gaps or along cleared lines

CL = Conventional logging

