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| --- | --- | --- | --- |
| Tipo de logging | Duração do efeito | Higher mortality among damaged trees | Pinnard & Putz 1996 |
|  |  | Biomas loss | Pinnard & Putz 1996 |
|  |  | Reduced canopy cover | Nepstad et al 1998 |
|  |  | Increased light availability | Nepstad et al 1998 |
|  |  | Increased debris | Nepstad et al 1998 |
| Seletivo (1-4 tree/ha) | Pelo menos 10 anos | Bird assemblages impover. | Thiollay et al. 1992 |
|  | Pelo menos 10 anos | Forest structure/damage | Thiollay et al. 1992 |
|  | Several years following logging | Tree mortality after operations (wind disturbance) | Thiollay et al. 1992 |
|  |  | Soil compaction | Thiollay et al. 1992 |
| Intenso 50-60% adult stems | Mais de 50-100 anos | Invasão biológica plants | Brown & Gurevitch 2004 |
|  | Mais de 50-100 anos | Woody plant assemblages | Brown & Gurevitch 2004 |
|  | Mais de 50-100 anos | DBH stem distribution |  |
| Six trees in average (38 m 3 ha- 1) |  | Tree damage and gaps | Verissimo et al. 1992 |
| Selective logging | 12 year after logging | Bird composition | Aleixo 1999 |
|  |  | Forest structure (several tables) all layers | Aleixo 1999 |
| Not specified |  | Logging expansion | Gaveau et 2014 |
| Selective (10 trees per ha) | 15-25 yr after logging | Rare mammal species | Well et al 2007 |
| Selective (10 trees per ha) | 15-25 yr after logging | Rare mammal species | Well et al 2007 |
| Selective (8 trees per ha, 35 m3) | 4-10 yr after logging | Ant community, forest structure and litter | Vasconcelos et al 2000 |
| Selective logging > 40 cm (140 m3) | 5 years after | Soil microbiology | TRIPATHI et al 2016 |
| 14 trees ha possibly | 5 yr after | Butterfly assemblages | Hill et al 1995 |
|  |  | Forest structure | Hill et al 1995 |
| 14-21 m3; 3-9 trees ha | Logging in 1969 | Forest structure | Struhsacker et al 1996 |
|  |  | Damage by elephants | Struhsacker et al 1996 |
|  | Land use change 2000-2010 | Logging dynamics and the future of concessions | Gaveau et al 2013 |
| 1 stem per ha (highly selective) | 6 mo to 18 years | Forest structure | Hall et 2003 |
|  |  | Tree assemblages | Hall et 2003 |
| 19-80 m3 ha | Since 1942 multiple cicles | Primates | Plumptre & Raynolds 1994 |
| Not informed | During logging operation | Soil sediments | Sidle et al 2004 |
|  |  | Track length | Sidle et al 2004 |
| 18 trees ha | 5-6 yr after | Tree assemblages | John 1985 |
|  | During operatiom | Forest structure | John 1985 |
| Not informed | Not informed | Avian throphic structure | John 1985 |
| 90 m3 | 8 yrs after the first logging | Bird community | Lambert 1992 |
|  | During logging operations | Forest structure | Lambert 1992 |
| Moderate-logging | 17 years | Carnivores | Gerber et al 2012 |
|  | 17 years | Forest structure | Gerber et al 2012 |
| Review | Review | Review | Zimmerman & Kormos 2012 |
| Review | Review | Fire in Australia | Lindenmayer et al. 2020 |
|  |  | Legislation in Camdodja | Le Billon 2002 |
| Review | Review | Fire | Lindenmayer et al 2009 |
| Review | Review | Roads impact | Kleinschroth &Healey 2017 |
|  |  | Loggind and fire dynamics | Matricardi et al 2010 |
| 11-41 trees ha | 24 years | Forest recovery | Gourlet-Fleury et al. 2013 |
|  |  | Stock recovery |  |
| 3.9 m3 ha−1, equivalent to only 1.1 trees ha−1 | 16 months | Vertebrate response | Bicknel & Peres 2010 |
| (2.6–6.4 felled trees ha | 3.5 yrs | Canopy gaps | Asner et al. 2004 |
|  |  | Logging intensity |  |
|  |  | Damage maps |  |
| 75 m3 ha-’16 trees 45 cm dbh. | 13-18 yrs | Forest recovery | Silva et 1995 |
| 35-69 m3 | 5-9 yr | Forest structure | Gerwing 2002 |
|  |  | Debris |  |
|  |  | Biomass |  |
|  |  | Tree species richness |  |
|  |  | Lianas |  |
|  |  | Regeneração |  |
| 38.9 and 37.4 m3 ha1 | 16 yrs | Biomass recovery | West et al 2014 |
| 23 m3 ha | 2-3 yr | Canopy cover | Pereira et al 2002 |
|  |  | Ground damage |  |
|  |  | Logging intensity |  |
| 4.35 trees/ha and 12.1 m3 /ha | During opperation | Forest structure  Road damage | Jackson et al 2002/Review |
|  |  | Tree damage |  |
|  |  | Fire damage in logged forests/forest structure | Woods 1989 |
|  |  | Grass invasion |  |
|  |  | Tree mortality/canopy open |  |
|  | 7-8 yrs | Volume | Magnusoon et al 1999 |
|  |  | Species richness |  |
|  |  | Tree composition |  |
| y 0.82 trees (8.11 m3 ) | Early after | Forest structure | Medjibe et al 2011 |
|  |  | Logging intensity and damage |  |
|  |  | Biomasss |  |
| 17 m3 ha1 (approximately 4 trees ha1 ), | 11 years | Seedling performance | Darrigo et al 2017 |
|  |  | Focal tree species response |  |
|  |  | Canopy opness |  |
|  |  | Soil response (phosporous) |  |
| Review | Review | Bird response | Barlow et al 2006 |
| 18 m3 ha–1 | 20–42 months | Bat response | Presley et al 2008 |
|  |  | Rare species |  |
|  |  | Functional groups |  |
| Review | Review | Logging practices | Putz et al. 2000 |
| Selective logging | 15-25 yr | Tree species composition | Slick et al 2002 |
|  |  | Seedling and saplings |  |
|  |  | Canopy openness |  |
| Mahogany logging |  | Forest damage | Whitman et al 1997 |
| t (18.7 m3/ha), | 2-42 meses | Bird response | Wunderle et al. 2006 |
|  |  | Forest structure |  |
| Review | Review | Biodiversity persistance and forest trajectory | Edwards & Laurance 2013 |
| Intensive logging | 1-2 yrs | Butterflies | Lewis 2001 |
|  |  | Light availability |  |
| g 78 + 7 0m3 ha-' | 2, 5 and 12 years | Deer | Heydon & Bulloh 1997 |
|  |  | Forest structure |  |
|  |  | Fruit availability |  |
|  |  | Ficus density |  |
| Meta-analysis (26 papers) | Meta-analysis across the tropics | Bird response | Burivalova et al 2015 |
|  |  | Functional groups |  |
|  |  | Response models |  |
| 23-50 m3 4-8 trees ha | During logging opperation | Forest structure | Uhl & Vieira 1989 |
|  |  | Forest damage |  |
|  |  | Profitability |  |
| Review & Policy |  | Logging emissions | Elly et al 2019 |
| 3–7% of trees > 60 dbh 70 m3 /ha 12-15 trees per ha | 6-yrs | Moth response | Willott et al 1999 |
| on average 3.04 (1.59) trees ha | 1-12 years | Birds | Thiollay et al. 1997 |
| 43% of pre-cut total basal area | 6 mo, 1- 8 years | Forest structure/damage | Cannon et al 1994 |
|  |  | Tree species abundance |  |
| Mohagani logging (1–4 trees/ha | 10 yr | Bat community | Peters et al 2006 |
| Review | Review | NTFP | Rist et al 2012 |
| 15 % trees > 35 cm DBH | 10-36 meses | Biomass and recovery | Figueira et al 2008 |
|  |  | Tree growth and mortality |  |
|  |  | Forest structure |  |
|  |  | NPP |  |
| 1-15 trees (16–94 m3 ha | 20-yrs | Functional profile of tree | Baraloto et al 2012 |
|  |  |  | Pereira et al |
| Multiple sites | 1-5 yr | Bird response | Marsden 1998 |
| 10–15 m3 ha−1; 5–7% of total standing volume harvested | Early-after | Forest structure via lidar | Andersen et al. 2014 |
|  |  | Biomass |  |
| 21.3 m3 há; 16.3 trees ha1 | 2-8 yrs | Large trees | Sist et al 2014 |
|  |  | Tree density and biomass |  |
|  |  | Structure |  |
|  |  | List of studies |  |
| 22.7 to 270.0 m3 /ha (mean = 92.4, | 18 years | Tree species richness | Berry et al 2008 |
|  |  | Alfa, beta e gama diversity |  |
|  |  | Forest structure |  |
|  |  | Ecological composition |  |
| Meta-analysis | Meta analysis | Biomass and carbon | Martin et al 2015 |
| n 10 m3 per ha | 10-yr | Small rodents | Ganzhorn et al 1990 |
|  |  | Forest structure |  |
| Low and intensive | Response to 1 and two cicles | Exploited species /simulated responses | Degen et al 2006 |
|  |  | Demographic and genetic |  |
| Review 4-38 trees ha | 20-30 yrs | Forest structure and composition | Gatti et al 2015 |
|  |  | Biomass |  |
| 2.9 to 7.3 trees/ha were authorized for harvest, or 5.8 to 14.2 m3/ha | 1-5 yr | Understorey birds | Mason 1999 |
| Simulation |  | Carbon & Biomass | Huang & Asner 2010 |
|  |  | Logging intensity (map) |  |
|  |  | Produtividade |  |
|  |  | Carbono no solo |  |
|  |  | Emissão de gases |  |
| 73 m3 ha | 15 yr | Butterflies | Dunbrell & Hill 2005 |
|  |  | Narrow-range species |  |
|  |  | Forest structure |  |
|  |  | Pioneer tree species |  |
| 118 m3 ha | 2-5-12 yr | Small carnivores (civets) | Heydon & Bulloh 1996 |
| 113 m3 ha | 9-12 yr | Microclimate | Senior et al 2017 |
|  |  | Forest structure |  |
| 32.5 to 53.4 m3 ha | 11 yr | Biomass/forest structure | Rutishauser et al 2016 |
| Review | Review | Forest disturbance/intact forest (%) | Putz et al 2019 |
| 118 m3 ha | 8±9 years ago | Butterfly species | Hill 1999 |
|  |  | Forest structure |  |
| 100 m3 ha | 5 yr | Suspended sediment | Chapell et al 2004 |
| 19.5 trees or approximately 57 m3 ha | 2-6 anos | Amphibians response | Ernest et al 2006 |
|  |  | Functional composition/diversity |  |
| Review | Review | Logg and deforestation | Asner et al 2009 |
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