



Temperate Broadleaf Forest

BIOL 1100

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Distribution

- Primarily located in midlatitudes of the Northern Hemisphere
- Smaller areas found in:
 - Chile
 - South Africa
 - Australia
 - New Zealand



(Taylor et al., 2018, p. 1156)



Precipitation

- Annual precipitation ranges from 70 to over 200 cm
- Significant rainfall occurs in all seasons, including summer
- Some forests experience winter snowfall



Plants



- Mature temperate broadleaf forests have four distinct vertical layers:
 - Closed canopy
 - One or two strata of understory trees
 - Shrub layer
 - Herb layer
- Few epiphytes are present
- In Northern hemisphere, dominant plants are deciduous trees that drop their leaves before winter
 - Low temperatures reduce photosynthesis and make water uptake from frozen soil



(Taylor et al., 2018, p. 1156)



Animals



Many bird species migrate to warmer climates during the colder winter months

In the Northern Hemisphere, many animals hibernate during winter



Mammals, birds, and insects utilize all vertical layers of the forest





Human Impact



1

Temperate broadleaf forests have been extensively settled on all continents

2

Logging and land clearing for agriculture and urban development have significantly impacted these forests

3

Nearly all original deciduous forests in North America have been destroyed

4

These forests are recovering and regrowing in many areas due to their ability to regenerate

(Taylor et al., 2018, p. 1156)



APA Works Cited

Taylor, M. R., Simon, E. J., Dickey, J., Hogan, K. A., & Reece, J. B. (2018). *Campbell biology: Concepts & connections* (9th ed.). Pearson.

