# Cheatography

## **Terrestrial Biomes Cheat Sheet** by brro3 via cheatography.com/168620/cs/35263/

Tropical Rainforest	
Temper ature	No temperature variation - warm around 27.2C
Precip- itation	Above temp line - tons of water, no drought
Growing season	All months
Species	Most species of any terrestrial biome
Plants	<ul> <li>Warm, wet conditions speed</li> <li>the decomposition of detritus</li> <li>and the reabsorption of released</li> <li>nutrients by plants, so soils</li> <li>cannot support long-term agriculature</li> <li>C3 Photosynthesis: Present in</li> <li>most plants, not good at CO2 or</li> <li>H2O conservation but not</li> <li>needed because of plenty</li> <li>moisture in biome</li> <li>-Plants with drip tips to avoid</li> <li>fungal infection and rotting</li> <li>Large, thin leaves</li> </ul>
Animals	- Black and White Colobus Monkey - Dung Beetle

# E

Boreal Forest (Taiga)	
Temper ature	Cold until growing season, avg 3.6C
Precip- itation	Rain in growing season. Most precipitation falls as snow (severe winters) in other months.
Growing season	AMJJASO
Plants	<ul> <li>Poor and acidic soil</li> <li>Cold temperatures limit the decomposition of litter, so soils contain a great deal of organic matter</li> <li>Abundance of conifer trees like spruces, firs, and pines because they are shared like cones so can slough off heavy loads of snow to prevent damage</li> <li>Conifers have needles with thick waxy coatings and small surface area to resist cold conditions and minimize water loss</li> <li>Trees are evergreen because of a short growing season where there is not enough time to drop leaves and rebuild them every year</li> <li>Droughts trigger widespread canopy and soil fires that</li> </ul>

consume the abundant accumu-

lated organic matter.

#### Boreal Forest (Taiga) (cont)

- Animals - Lynx
  - Beaver - Haire
  - Elk

World's largest terrestrial biome. Special Most in Russia and Canada

### **Boreal Forest**



Tropical Savanna/Seasonal Forest	
Temper ature	Temperature varies little
Precip- itation	Wet/dry seasons. Dry season between May and October. Outside of May and October is wet
Growing season	All year
Plants	- Tree/grass codominance, often require disturbance to maintain - Dry season makes a "thorn forest" because of many succul- ents.



(off scale)

- Jaguar - Agouti

Andagoya, Colombia

Climate: Equatorial (I) **Elevation: 65 meters** 

Annual precipitation: 6,905 mm

Average temperature: 27.2 °C

J F M A M J J A S O N D Month Temperature °C — Precipitation (mm)

Tropical Rainforest

40

30

20

10

0

-10

-20

cheatography.com/brr03/

80

60

40

20

0

Published 6th November, 2022. Last updated 8th November, 2022. Page 1 of 3.

Sponsored by Readable.com Measure your website readability! https://readable.com

# Cheatography

## Terrestrial Biomes Cheat Sheet by brro3 via cheatography.com/168620/cs/35263/

Tropical Savanna/Seasonal Forest (cont)	
Animals	- Elefant - Giraffe - Gaselle - Eland
Desert	
Temper ature	Line above precip, avg of 21.9C
Precip- itation	Barely or none
Growing season	All months
Plants	<ul> <li>Plants can leave without water by metabolizing fat to obtain it</li> <li>Plants are thorny and adapted to conserve water (fleshy stems and leaves)</li> <li>Thick cuticles</li> <li>C4 (spatial separation of photosynthesis) and CAM</li> <li>Photosynthesis (temporal separation of photosynthesis)</li> </ul>
Animals	<ul> <li>No big mammal because of no shade or water.</li> <li>Dominant mammals are burrowers {{nl} - Anochetus ant</li> <li>Texas horned lizard - squirts</li> <li>blood from eyes to defend itself</li> <li>because blood taste foul to</li> <li>predators</li> <li>Fat sand rat</li> <li>Greater roadrunner</li> </ul>

#### Desert



Temperate Forest		
Temper ature	Avg temp 10.8C	
Precip- itation	- Summers are moist - Dinstict winter season with frost and snow	
Growing season	MAMJJASON	
Plants	- Soils are fertile and low acidity	
Animals	- Bobcat - Grizzly Bear	

- Squirrel

- Deer

#### **Temperate Forest**



## By **brr03** cheatography.com/brr03/

Published 6th November, 2022. Last updated 8th November, 2022. Page 2 of 3.

### Sponsored by Readable.com Measure your website readability! https://readable.com



Tundra	
3 Types	Artic, Antartica, Alpine Tundra
Temper ature	Cold, severe winters, avg - 11.9C
Precip- itation	Some rain but not much, similar to a desert. Cold air holds little moisture so most moisture is locked up as snow.
Growing season	JJAS - short growing season due to very severe winters

# Cheatography

# Terrestrial Biomes Cheat Sheet by brro3 via cheatography.com/168620/cs/35263/

Tundra (c	cont)	
Plants	<ul> <li>Almost no trees due to permafrost</li> <li>Permafrost is a massive carbon storage area: with global warming, tundra (which used to be a sink) is now a source of carbon and methane (green- house gases)</li> <li>Most plants low to ground</li> <li>Plants produce anti-freeze protein</li> <li>Lichens, moss, heath - Slow decomposition of organic matter, so soil is infertile and low in oxygen</li> </ul>	
Animals	<ul> <li>Migration of animals out in cold months and in during growing season</li> <li>species-poor</li> <li>Peary caribou</li> <li>Lemming (don't run off cliffs)</li> <li>Wolf</li> <li>Polar bear</li> </ul>	
Tundra		

#### Baker Lake, Canada Climate: Polar (IX) **Elevation: 4 meters** 40 80 30 60 20 40 10 20 0 0 -10 Annual precipitation: 208 mm Average temperature: -11.9 °C -20 FMAMJJASOND I Month Temperature °C — Precipitation (mm)

## Temperate Grassland/Shrubland

Temper ature	Temp line crosses precipitation line. Hot summers and cold winters
Precip- itation	Some precipitation
Growing season	MAMJJASON
Plants	- Few trees, dominated by grasses - May become forest without disturbances when precipitation is high
Animals	- Bison - Kangaroo - Cheetah - Prairie dogs

Temperate Grassland/Shrubland





## By brr03 cheatography.com/brr03/

Published 6th November, 2022. Last updated 8th November, 2022. Page 3 of 3.

### Sponsored by Readable.com Measure your website readability! https://readable.com

#### Patterns

