Cheatography

Terrestrial Biomes Cheat Sheet by brr03 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	 Warm, wet conditions speed the decomposition of detritus and the reabsorption of released nutrients by plants, so soils cannot support long-term agricu- lture C3 Photosynthesis: Present in most plants, not good at CO2 or H2O conservation but not needed because of plenty moisture in biome -Plants with drip tips to avoid fungal infection and rotting Large, thin leaves
Animals	- Black and White Colobus Monkey - Dung Beetle

- Jaguar - Agouti

Andagoya, Colombia

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

Tropical Rainforest

40

30

20

10

0

(off scale)

-10

-20

Boreal For	rest (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	 Poor and acidic soil Cold temperatures limit the decomposition of litter, so soils contain a great deal of organic matter 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 Conifers have needles with thick waxy coatings and small surface area to resist cold conditions and minimize water loss Trees are evergreen because of a short growing season where there is not enough time to drop leaves and rebuild them every
	year - Droughts trigger widespread cappy and soil fires that

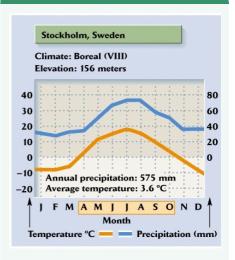
canopy and soil fires that consume the abundant accumulated organic matter.

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.

By brr03
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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)

80

60

40

20

0

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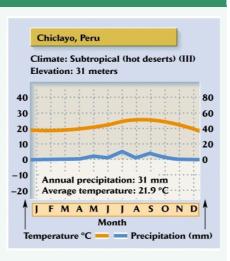
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Tropical Savanna/Seasonal Forest (cont)	
Animals	- Elefant - Giraffe - Gaselle - Eland
Desert	
Temper ature	Line above precip, avg of 21.9C
Precip- itation	Barely or none
Growing season	All months
Plants	 Plants can leave without water by metabolizing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

Desert

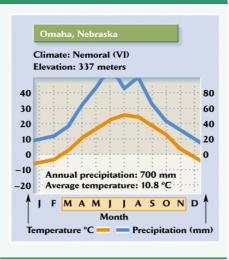




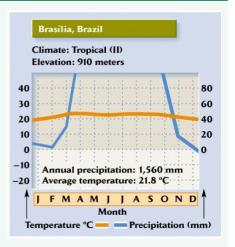


- Deer

Temperate Forest



Tropical Savanna/Seasonal



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

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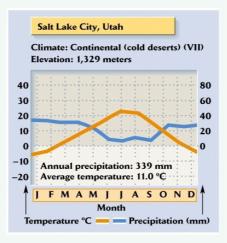
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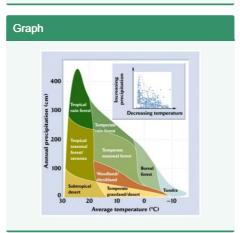
Tundra (cont)	
Plants	 Almost no trees due to permafrost Permafrost is a massive carbon storage area: with global warming, tundra (which used to be a sink) is now a source of carbon and methane (green- house gases) Most plants low to ground Plants produce anti-freeze protein Lichens, moss, heath - Slow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

Temperate Grassland/Shrubland

remperate	
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







FMAMJJASOND

Precipitation (mm)

Month

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Patterns

Annual precipitation: 208 mm Average temperature: -11.9 °C

Temperature °C =

Baker Lake, Canada

80

60

40

20

0

Climate: Polar (IX)

Elevation: 4 meters

Tundra

40

30

20

10

0

-10

-20

I

C