



The Guyana Mangrove
Action Project

MANGROVES

Mangroves Protect
us from the Sea.
Let us Protect
them!

Understanding the Basics!





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Mangroves are:

Smelly, always wet and muddy.

Places with lots of mosquitoes.

Bushes that block the sea breeze and the view of the ocean.

Grow in places where we also want to live.



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Mangroves are:

Important wetlands which provide many benefits and uses for humans, for other animal life and for the environment.

Mostly swampy or wet. A third of the life of a mangrove tree is spent under flooded saltwater conditions.

Protectors - they help to fight the effects of climate change and rising sea levels.



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Mangroves are:

PROTECTED by law. "Protected Trees" 17. (1)
"No bullet-wood tree or red, black or white mangrove trees shall be felled without first obtaining the permission in writing of an authorized forest officer not below the rank of an Assistant Commissioner of Forests"



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Designed by C. Chin. 2010

Mangroves are Cool!



Parts of the Black Mangrove

Above: the tree

Above right: leaf and flower

Below right: seed



7 different types of mangrove trees; 3 most common types include the Red, Black and White Mangroves.



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Parts of Red Mangrove

Left: tree and root system

Right top: pre-germinated seeds

Right bottom: flower

Seven different types of mangrove trees; three most common types include the Red, Black and White Mangroves.

Right bottom: flower
Left: tree and root system



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Parts of the White Mangrove tree

Right top: flower

Right middle: leaves with glands

Right bottom: pegged roots which are similar to pneumatophores but are more stout.

7 different types of mangrove trees; 3 most common types include the Red, Black and White Mangroves.



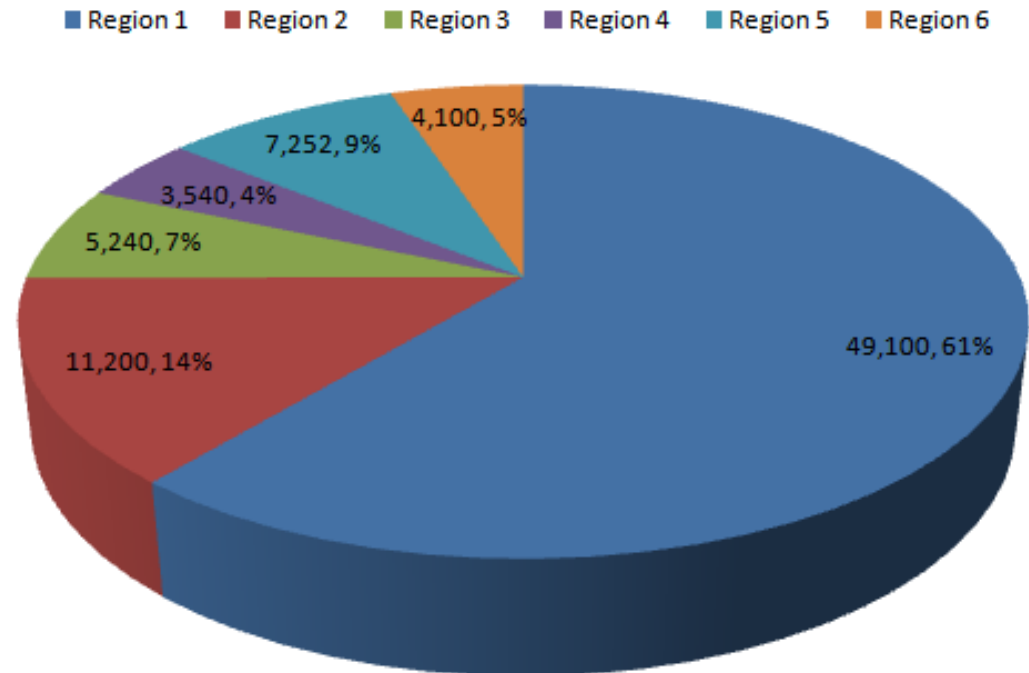
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Size matters!

Estimated Area (ha.) of Mangrove Forest among the Coastal Administrative Regions of Guyana (GFC 2001)





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Why grow here?

- ❖ Mangroves love tropical climates
- ❖ Depend on mudflats and they have a natural cycle of movement along the coast.
- ❖ Grow in areas with large tidal ranges where the effect of wave action is generally not as strong compared to other areas.
- ❖ With variation in tides, the amount of salt in the water and on land . They need a salty environment to grow.
- ❖ Rainfall influences water temperature, the amount of salt on the surface and in the ground.

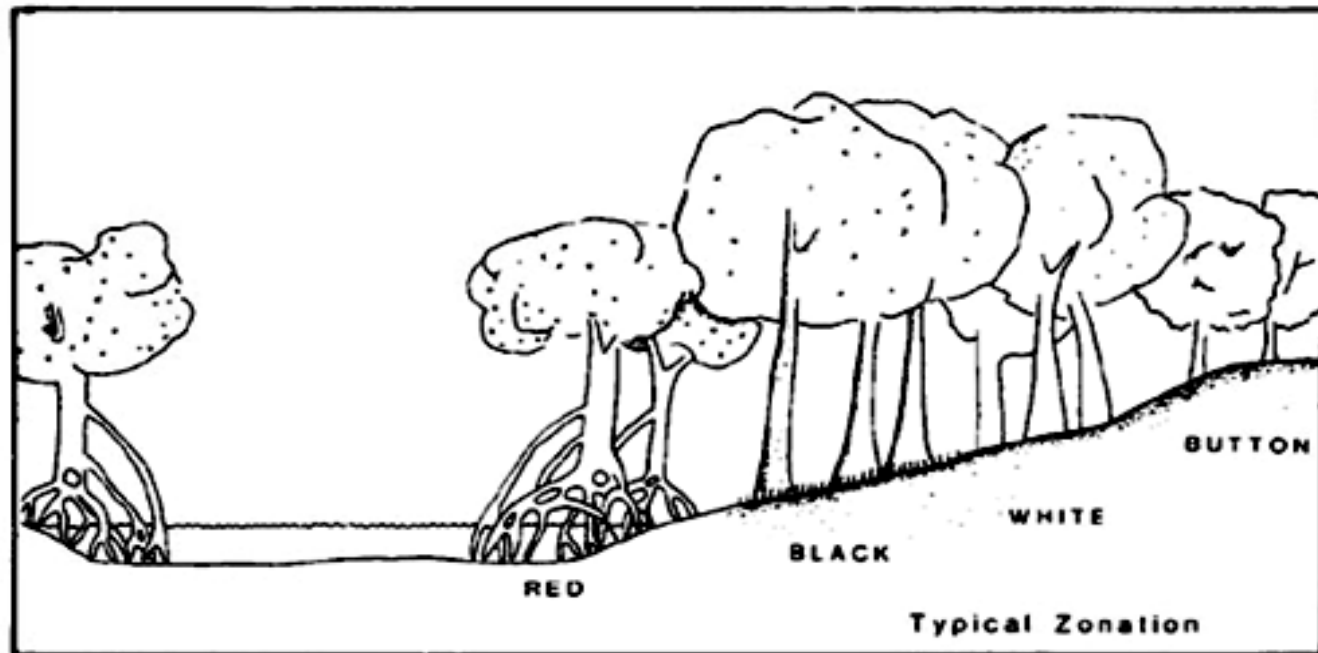


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Turf Issues!





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In Summary

We will learned about:

- ❖ What is a mangrove and the types of mangroves that are found within Guyana.
- ❖ Learn about the unique adaptations and features used to identify the most common species.
- ❖ Why and how they grow where they grow?