bigFan_data

Big Fan Dashboard

Control_Comparison_TreeHeight_0cm

● Open Canyon ● SemiClosed Canyon ● Closed Canyon
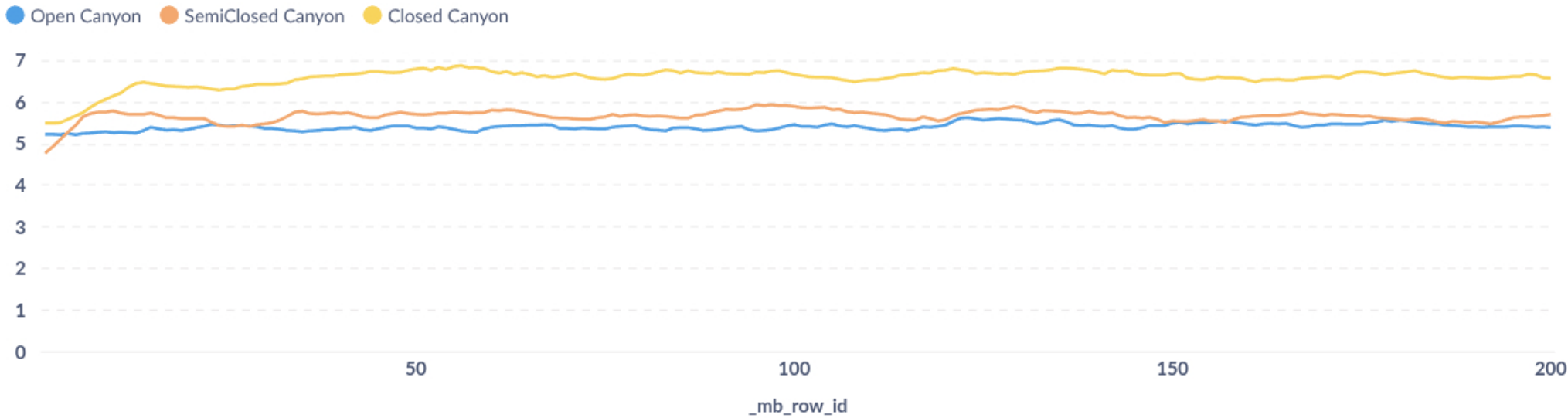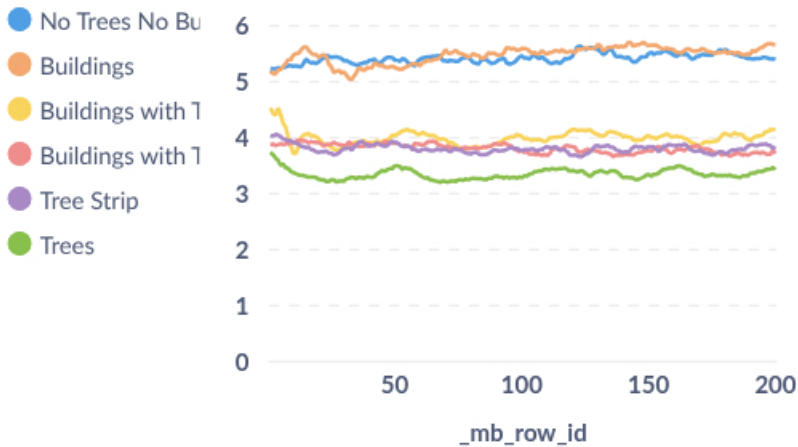

In the control dataset, we see that wind speed is accelerated as the canyon width reduces.

Wind Speed through the different Canyons with Various Obstacles

BigFan_OpenCanyon_0cm

● No Trees No Bu
● Buildings
● Buildings with T
● Buildings with T
● Tree Strip
● Trees

BigFan_SemiClosedCanyon_0cm

● No Buildings No Trees ● Buildings ● Buildings and Trees ● Trees

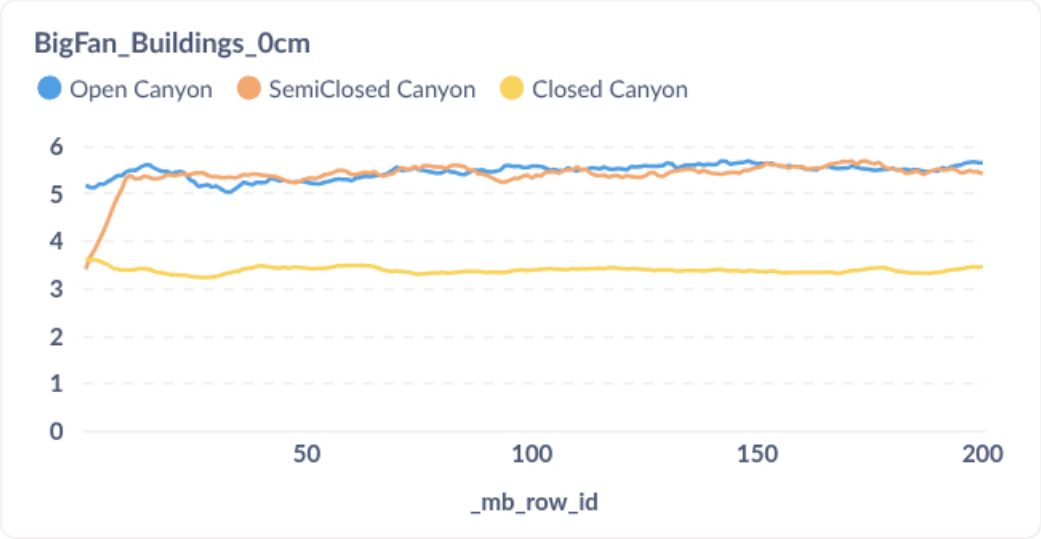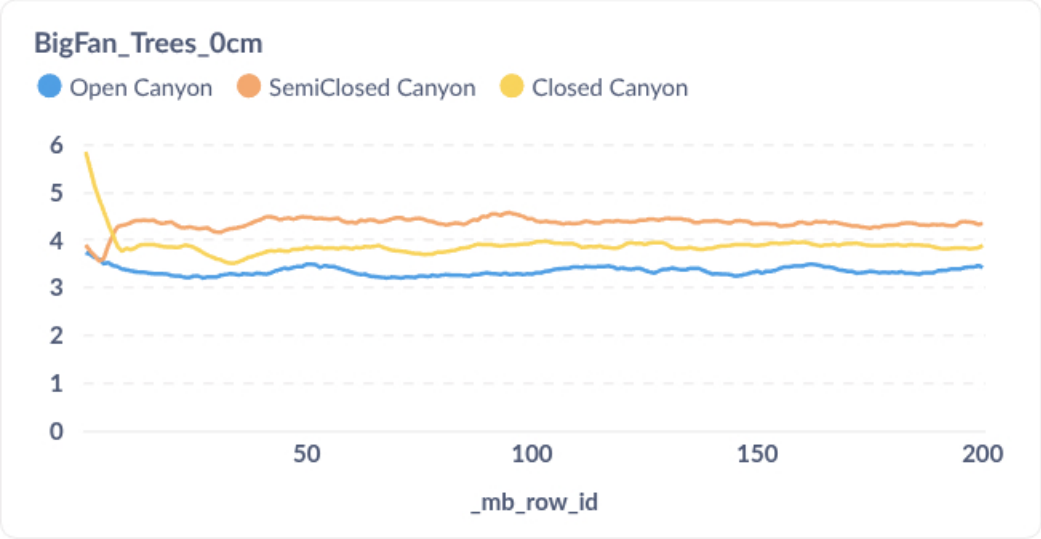
BigFan_ClosedCanyon_0cm

● No Buildings No Trees ● Trees ● Buildings

In a closed Canyon Scenario, we see any addition of turbulent obstacles can reduce the wind channeling effect.

How Simple Obstacles Drastically Effect Wind Speed

BigFan_Trees_0cm

● Open Canyon ● SemiClosed Canyon ● Closed Canyon

BigFan_Buildings_0cm

● Open Canyon ● SemiClosed Canyon ● Closed Canyon

Wind blowing through the trees has a significant effect on wind speed. However, the Semi-Closed Canyon still allowed more wind to pass through, in comparison to the Closed Canyon.

The buildings had a minimal effect on the wind speed. However when the Canyon was fully closed, the Wind Speed dropped considerably as there was not enough space for the wind to flow.

BigFan_Open at 0cm vs 5cm

● 0cm ● 5cm

BigFan_SemiClosed at 0cm vs 5cm

● 0cm ● 5cm

BigFan_Closed at 0cm vs 5cm

● 0cm ● 5cm