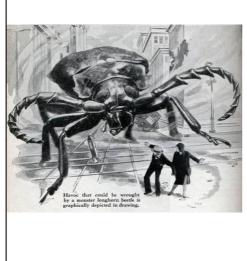


## What Prevents Insects from being the Size we see in the Horror Movies?



- Insects rely upon passive diffusion and physical activity for the movement of gases within the tracheal system.
- Diffusion of O<sub>2</sub> and CO<sub>2</sub> through the air in the tracheal tubes is fast enough only for distances less than 1cm for the body surface. This limits the size/radius of the insect's body.
- Larger organisms use a blood circulatory system (blood vessels) to over come this limitation.

