

What Would Happen to the Photosynthesis Process, and the Plant as a Whole If...

1. The temperature around a C3 plant was raised to 40 °C for one hour, and then increased again to 60 °C for three hours?
2. A C3 plant was exposed to an atmosphere with 78 % oxygen, and 22 % Carbon Dioxide?
3. All of the stomata on a C4 plant closed during the day?
4. Photosystem II was denatured, and its pigments were damaged?
5. Plastoquinone was damaged, and only pumped 2 H⁺ for every two electrons, rather than 4 H⁺?
6. NADP⁺ Reductase was removed from all of the thylakoid membranes in a plant?
7. The plant was not given water for 1.5 weeks.
8. The light intensity was constantly increased past the light saturation point.
9. The carbon dioxide level was increased past the saturation point.