FINAL REPORT

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Feedback Limitations of Photosynthesis

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The interaction between photosynthetic CO₂ assimilation and starch and sucrose synthesis was studied. Photosynthesis can be limited by feedback from starch and sucrose synthesis, especially at high CO₂. The steps in the feedback chain and the consequences of feedback on the maximum rate of photosynthesis were explored. The feedback chain is shown below

WHEN THE CAPACITY TO MAKE TRIOSE PHOSPHATE EXCEEDS THE CAPACITY TO USE TRIOSE PHOSPHATE

The steps in the feedback chain were described in peer reviewed publications published over the course of this research.

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