

Mini-Quiz 3

BIOL 4350/6350

Ecophysiology

1 Can an individual plant be sun and shade adapted? Explain your answer.

2 Why do C4 plants tend to have faster rates of photosynthesis at high light than C3 plants?

3 How might transpiration and leaf respiration change across a light gradient?

4 The light saturation point is the light level at which photosynthesis is saturated. In what locations on Earth would you expect short-statured (<2 meters) individuals to have light saturation points at low light levels? In what locations would you expect this point to be high for short-statured plants? Explain your answer.