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Cover illustration: Water potential distribution from the soil to the tip of a growing maize leaf. The growth zone at the base of the leaf has a water potential much lower than that of the protoxylem (X) running through it, providing evidence for a growth-induced water potential. Water potentials in the shoot during the day (orange) are lower than during the night (black) because of transpiration (blue). Adapted from Tang and Boyer (2002), see Boyer and Silk pp. 761–773.