

HSSU 201 – Plants and People
Study Guide - Chapter 4 – Plant Physiology

Transpiration

General Movement of Water

Root hairs

Osmosis

Xylem

Evaporation

Water molecule polarity

Cohesion of water molecules

Adhesion to xylem walls

Transpiration-Cohesion Theory

Tension

Stomatal control

Guard cells

Translocation of sugars

Source

Supply area

Sink –

Metabolism or storage area

Pressure Flow Hypothesis (Mass Flow)

Phloem loading

Phloem unloading

Active transport

Photosynthesis

Formula

Light Reaction

Chlorophyll

Chloroplast

Calvin Cycle

C3 plants

C4 plants

CAM

Respiration

Glycolysis

Krebs Cycle

Electron Transport