

(A3)

(A4, A5)

N, P in Tissue (leaf, root, sap, store)

Allocation

N and P Demand and Photosynthesis limitation $f(N_{leaf}, P_{leaf})$

N and P Uptake $f(C_{root}, C:N:P \text{ ratio})$

Vegetation

Litter C, N and P

— CNP Fluxes
— N Fluxes
— P Fluxes

Surface Structural and Metabolic Pools

Fine Woody Debris

Coarse Woody Debris

Surface Humus

Surface Microbial

Deposition, Fixation

Slow Pool

Microbial Pool

Available N

Available P

Immobilization/Mineralization

Passive Pool

Sorbed P

Weathering (A6 - 8), Deposition

S. Sorbed P

Decomposition $f(\text{temperature, moisture, soil lignin content, neg. avail. N, neg. avail. P})$

Soil

