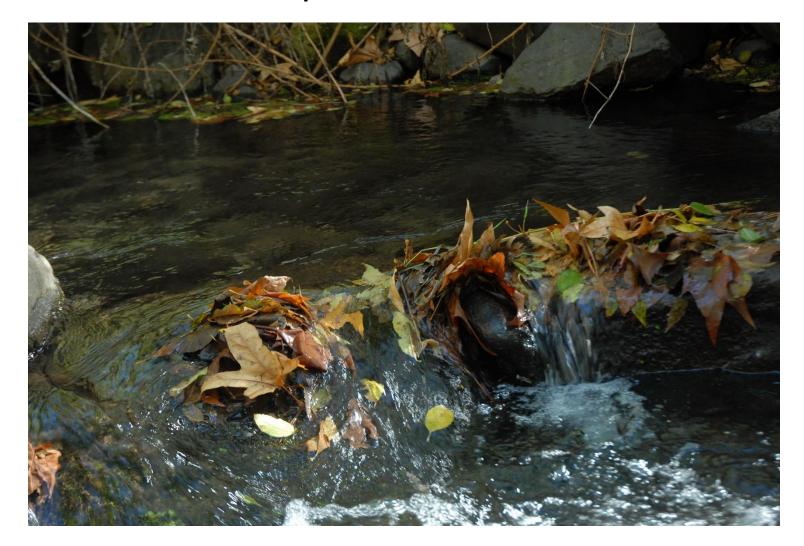
Natural leaf litter "packs" in a riffle





Leaves retained in a pool due to low velocity



Greenhouse



Leaf pack creation and deployment



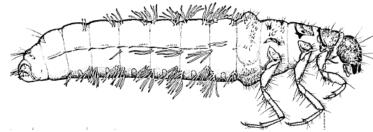


Insects



Hesperophylax magnus





Drawing from Parker and Wiggins 1985

Community players Collectors

Midge Chironomidae (2 mm)



Mayfly Baetis sp. (3 mm)



Torpedo shaped

Mayfly Tricorythodes sp. (4 mm)



Community players Filterers

Simuliidae (2 mm)



Net-spinning Caddisfly Hydropsyche sp. Sclerite plates on all three thoracic segments

Fringed gills on abdomen

Community players Filterers

segments



Capture net. Genera can spin different mesh sizes to catch various particle sizes and partition niches. Net-spinning Caddisfly Hydropsyche sp. Sclerite plates on all (15 mm) three thoracic

Fringed gills on abdomen

Community players Scraper



Moth larva Petrophila sp. (15 mm)

Community players Shredder

Micro-caddisfly Micrasema sp. (4 mm)



Predatory caddisfly Atopsyche sp. (13 mm) Only occurs in AZ in the US!

Community players Predators

Dragonfly Oplonaeshna armata (25 mm) Only occurs in AZ!



Video

Oplonaeshna armata

Eating a large caddisfly



Other insects in Oak Creek

Caddisflies

Glossosomatidae – shredder (dome-shaped case)

Phyloicus mexicana – shredder (woody case)

Helicopsychidae – collector



Other insects in Oak Creek

Beetles

Dytiscidae – Predator





Elmidae – Collector

