

What is dynamic equilibrium? Water follows path of least resistance Erodes where sediment is soft Deposits when water is slowed down Equilibrium is dynamic – responds to environmental factors

Habitat Creation



- Erosion & Deposition = Habitat Formation
- Different processes form different habitat patches
- Lack of equilibrium results in reduced habitat
- Rehabilitation helps conserve freshwater biodiversity



Point Bars



- Occurs on inside bend
- Slowed water deposits sediment
- · Point bar extends
- Good area of marginal habitat



Point Bars

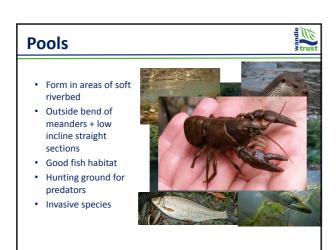


- · Become colonised
- Water cress & burr reeds
- Seeds transported in river and by birds
- Roots secure the point bar
- Flies climb up reeds
- Birds nest in the vegetation



Mid-channel Bars Form during low discharge Obstacle to flow - site of deposition Colonised by hardy grasses Trap sediment Home to rich variety insect life Good hunting ground for birds

What benefits do plants offer freshwater ecosystems? Fish Nests BankStability Food Insects PredatorCover SedimentCapture Habitat WShade



Riffles



- Form in areas of hard riverbed
- Where incline is steep
- Wide range of invertebrates
- Small fishes bullhead



Backwaters

- Areas of slack water offchannel
- Old river channels
- Pike spawning habitat
- Nursery ground for fish fry
- Many insect species



Diversity is key!





RIVER MODIFICATIONS	e vandle vandle
1. ABSTRACTION	
Rivers are a source of freshwater which we n drinking, washing, cooking and sewage treat	
ABSTRACTION WATER	R LEVEL
Whether from the river directly or groundwater over abstraction can cause rivers to "dry up". The loss has negative effects on freshwater will	nis habitat

