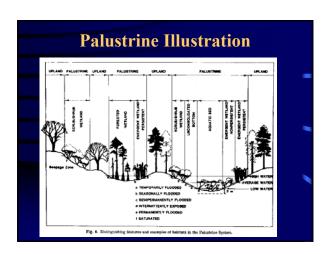
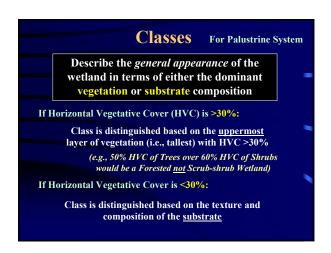


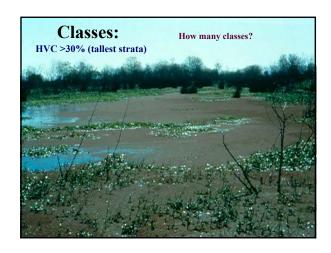


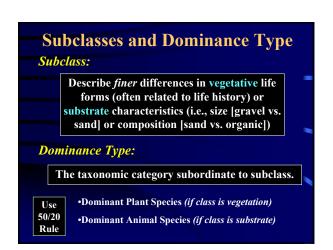
All freshwater wetlands dominated (>30% coverage) by trees, shrubs, persistent emergents, or emergent mosses and lichens *Non-tidal or tidal Also, all wetlands lacking above vegetation (or dominated by non-persistent emergents) having all these 4 characteristics: 1) <8 ha. in size 2) No active wave formed shoreline 3) Depth <2 m 4) Salinity <0.5ppt So subsystem!!





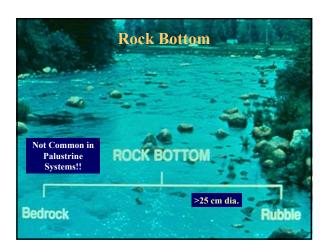




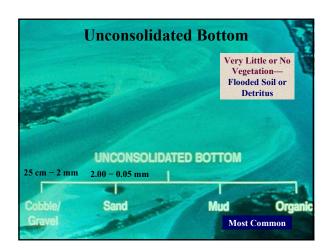


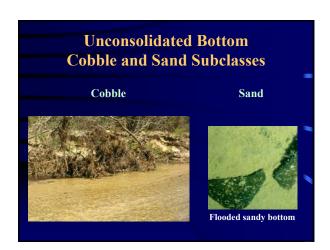


Types of Palustrine Classes, Subclasses, and Dominance Types 1) Rock Bottom: •>75% HC of stones, bolders, or bedrock •<30% HVC Usually high-energy wetlands with well-aerated water. A) Bedrock: >75% bedrock substrate B) Rubble: <75% bedrock; >75% bedrock+bolders+stones Dominance Types: Ephemeralla, Procambarus, Spongilla, and Lymnaea (pond snail)



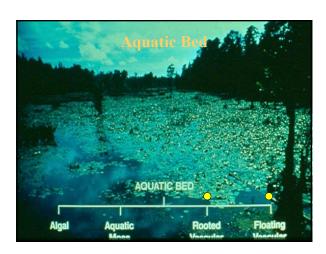
Types of Palustrine Classes, Subclasses, and Dominance Types
2) Unconsolidated Bottom:
•>25% HC of soil particles smaller than stones
•<30% HVC
Usually low-energy wetlands that are flooded more permanently.
A) <u>Cobble-gravel</u> : >50% c/g *C) <u>Mud</u> : >50% silt & clay B) <u>Sand</u> : >50% sand *D) <u>Organic</u> : >50% <u>dead</u> or live organic matter
Dominance Types: Gammarus (scuds), Physa (snail), Tubifex, and Canthocamptus (copepod)



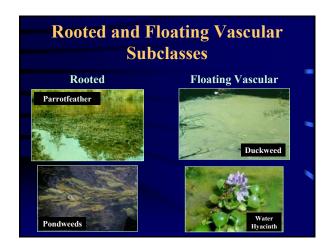


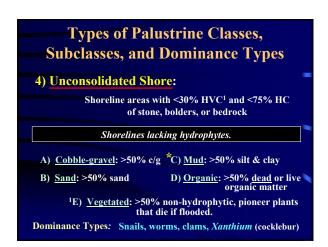


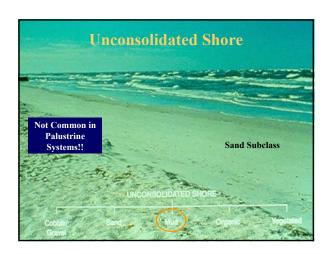
Types of Palustrine Classes, Subclasses, and Dominance Types 3) Aquatic Bed: >30% HVC of plants that grow on or below the surface of the water; <30% HVC "taller" plants. Usually low-energy habitats that are flooded permanently. A) Algal: >50% algae *C) Rooted Vascular: >50% RV B) Aquatic moss: >50% moss D) Floating Vascular: >50% FV Dominance Types: Chara, Fontinalis, Vallisneria, Ruppia, Nuphar, Lemna, and Eichhornia

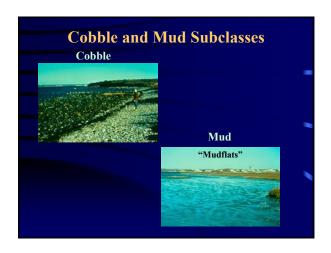




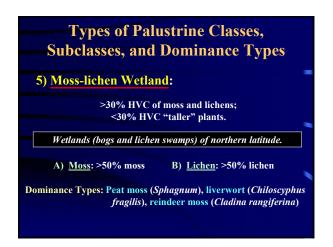




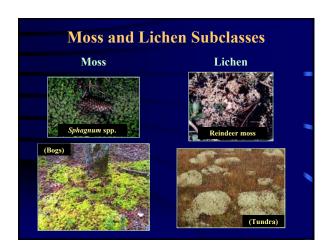






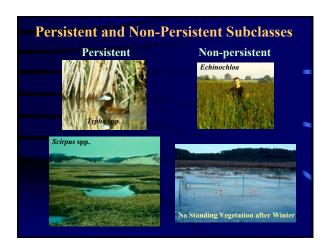


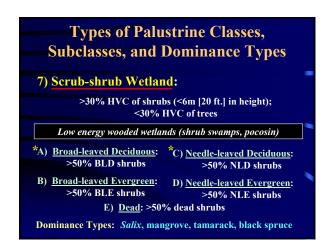


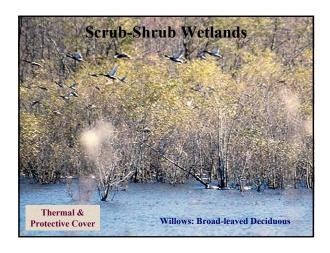


Types of Palustrine Classes, Subclasses, and Dominance Types
6) Emergent Wetland:
>30% HVC of erect, rooted hydrophytes, excluding mosses and lichens; <30% HVC "taller" plants.
Low energy wetlands (marshes, playas, prairie potholes)
A) Persistent: >50% HC of plants that remain standing at least until the beginning of the next growing season.
B) Nonpersistent: >50% HC of plants which fall to the surface of the substrate or water at the end of the growing season.
Dominance Types: Cattail (<i>Typha</i>), bulrush (<i>Scirpus</i>), wild millet (<i>Echinochloa</i>), wild rice (<i>Zizania</i>), <i>Panicums</i>



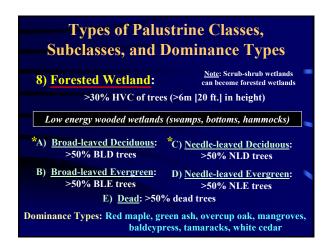












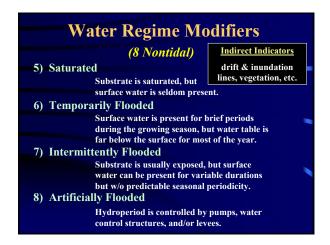


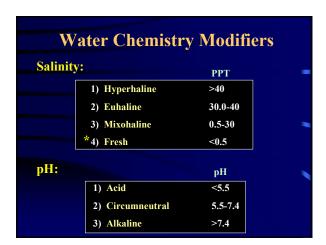


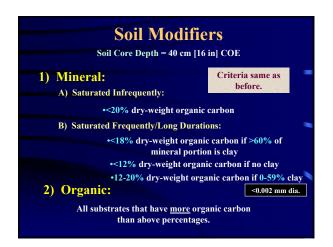




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(8 Nontidal)	Criteria not as quantitative as
1) Permanently Flooded	USACE zones.
Water covers substrate in a	ıll years.
2) Intermittently Exposed	
Water covers substrate in a during drought.	ll years, except
3) Semi-permanently Flooded	
Water covers substrate three	
growing season in most yea	rs.
4) Seasonally Flooded	







Special Modifiers		
1) Excavated	Excavated basin or channel.	
2) Impounded	Structure (dam) prevents outflow.	
3) Diked	Structure (levee) prevents inflow.	
4) Partly Drained	Water level has been artificially lowered, but hydrophytes and/or hydric soils present.	
5) Farmed	Soil is mechanically disturbed, but hydrophytes will reestablish if farming ceases.	
6) Artificial	Non-natural substrate. e.g., dredge spoil, automobiles, concrete	

