

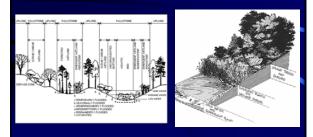




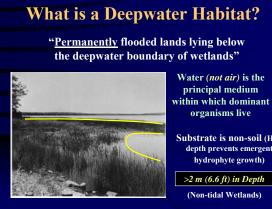


Wetlands: Ecotones between **Upland and Aquatic Systems**

Share characteristics of upland and aquatic systems, especially near margins, yet have unique characteristics (jurisdictional criteria)







Water (not air) is the within which dominant

> Substrate is non-soil (H₂O depth prevents emergent

What are l	Hydrophytes?
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USACE Definition

"...macrophytic plant life that occurs in areas where the frequency and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a <u>controlling influence</u> on the plant species present."

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Obligate Wetland	OBL	>99%	cattail, lilies, buttonbush
Facultative Wetland	FACW	68-99%	smartweed, green ash
Facultative	FAC	33-67%	millet, cottonwood
Facultative Upland	FACU	1-32%	cocklebur, red oak
Obligate Upland	UPL	<1%	Indian grass, pines



Measuring Dominance

>50% dominance of OBL, FACW, or FAC across ALL Vegetation Strata, not including FAC-

1) Herb –	All herbaceous (non-woody) plants and woody plants <3.2 ft tall
2) Sapling/shrub –	Woody plants > 3.2 ft tall, <3.0 inches DBH
3) Tree – Woody	plants >3.0 inches DBH, regardless of height

4) Woody vine – Woody climbing plants >3.2 ft in height

Possible Dominance Response Variables:

Relative Occurrence, Percent Horizontal Cover, Density

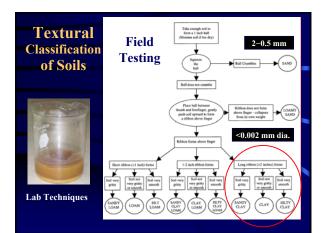










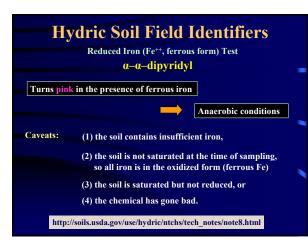


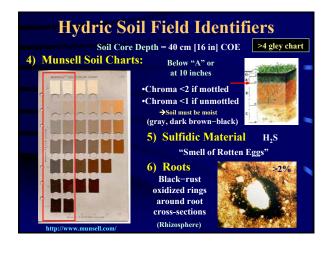


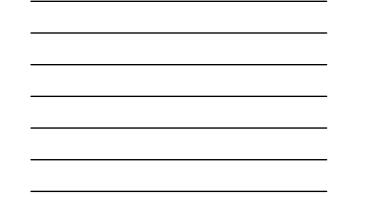
Types of Hydric Organic Soils				
	NRCS Definition			
 > ½ Dec Feels G 2) Fibrist: (Pea > ½ Pla < ½ Dec Feel Fib 	ct) ntifiable Plant Fibers composed Plants reasy, Hands Dirty (t)	ow much identifiable Plant Material?		
•> ¹ / ₃ - ² / ₃ Plant Fibers •> ¹ / ₃ - ² / ₃ Decomposed	Peaty Muck •> ¾ Fiber Mucky Peat •> ¾ Fiber	rs Destroyed after Rubbing rs Remain after Rubbing		

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Wetla	und H	yd	rology	<i>i</i>
ι	ISACE De	efiniti	on	T -
"all hydrolog periodically <u>inundate</u> at some tim	ed or have s	soils <u>s</u>		
Water influence USACE Requirement: (in	s vegetatio	n & s	oils - Anaerol Reducin	
Flooded (or saturated) (above biologi Hydrologic Zones: (growin	cal zero ⇒>	5 C or	41 F at 20 inche	
I Permanently inundated II Semi-permanently III Regularly	100% 76-99% 26-75%	IV	Seasonally Irregularly Intermittingly	12.6-25% 5-12.5% <5%







