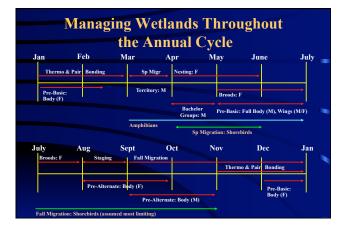
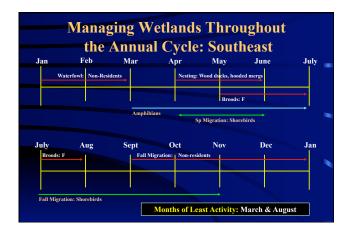


### Lecture Structure

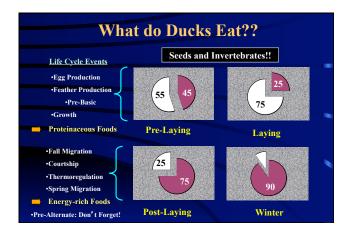
- I. Annual Cycle
- II. Waterfowl Diet & Management Complex
- III. Moist-soil Management
- IV. Agriculture Management







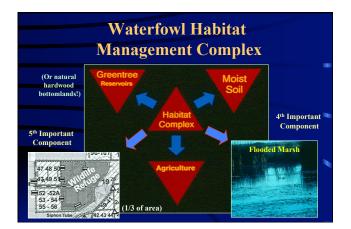












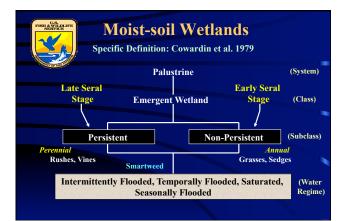


### Moist-soil Wetlands General Definition

Intermittently to seasonally flooded wetlands that are dominated by annual and/or perennial herbaceous hydrophytes.









### Hydrologic Management (Fredrickson and Taylor 1982)

Spring Drawdown:			Multiple
Duration		Date	Combinations Good!
•Fast (2-3 d	ays)	•Early (April)	Good:
•Slow (2-3 v	veeks)	•Late (July)	
Plant	Diversity and Foods	Annuals & Bro	eeding
Irrigation:	•Flooded sha •Offset droug	llowly (e.g., <10 cm) tht 2-3 Weeks	Eco. Trap
Winter Flooding:		2-4 weeks) & Sequer w (e.g., 10-20 cm)	ntial Sept.





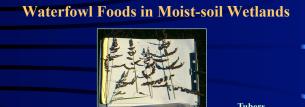












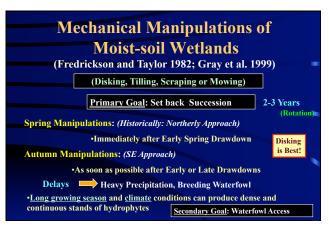






"Tongue-and-Groove"

Hydrol	ogic Manage	ement
www.crisafulli.com	Moving Water	www.gator-pump.com
Gravity (reservoirs, rivers)	Diesel or P	TO-Pumps & Wells
Cheapest!		
Towable PTO-Pumps	Crisafulli® & Gator®	Electric Pump & Wells
	64-1	





### Why Forego Mechanical Manipulations until Autumn?



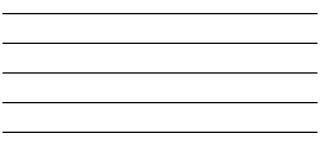


## **Mechanical Manipulations**









## **Mechanical Manipulations**

How many Disk Passes are Necessary?

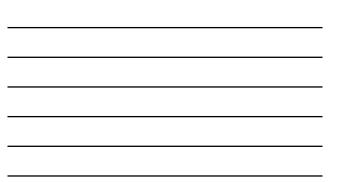


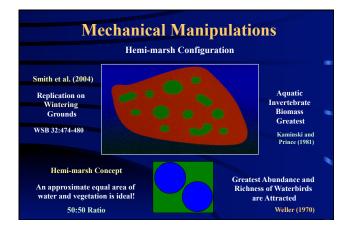












### Natural Manipulations of Moist-soil Wetlands



## Natural Manipulations of Moist-soil Wetlands Rockefeller State Refuge





## Other Manipulations of Moist-soil Wetlands



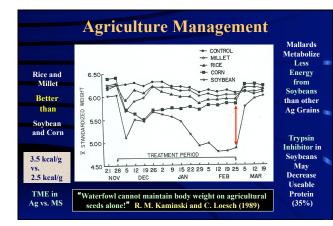
Agriculture •Ag. Var. Hydrophytes •Higher Elevations •Mid-June •40 kg/ha; \$150/ha



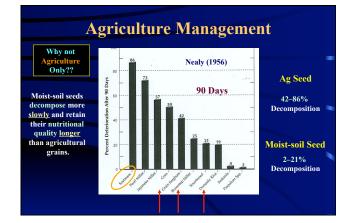






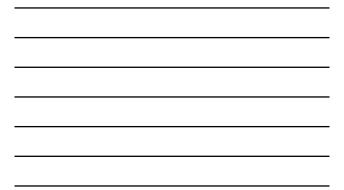






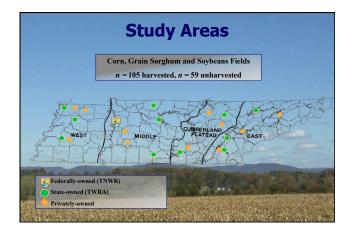


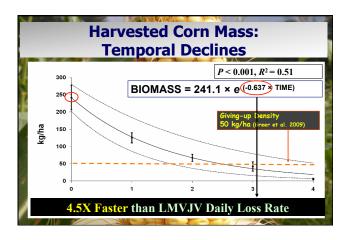
71%, 79-99	% Decrease in Seed Availability
271 kg/ha Post Harv	vest 78 kg/ha Late Autumn
Less Food (DED) Available	(Near 50 kg/ha Threshold; !! Greer et al. 2009)
140 kg/ha	
The second second second	Germinated 8% Decompose



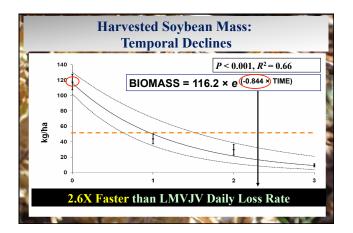


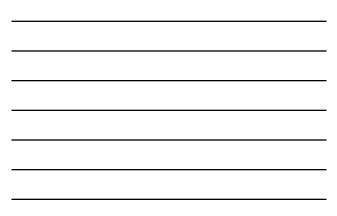


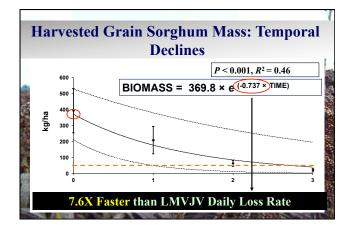














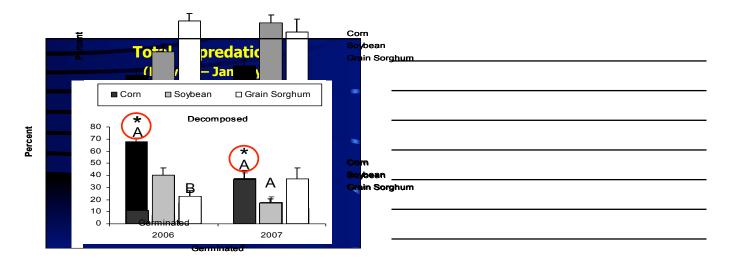
5	December Estimates: Harvested Fields				
1. 2-1.		Bioma	SS (kg/ha)	DED	/ha
Сгор	n	x	SE	x	SE
Corn	47	75	14	522	160
Soybean	48	45	8	164	55
Grain Sorghum	9	156	83	1381	970
			Moist-	soil = 5000 DE	D/ha
Previous estimate : (Iverson et al. 1985		a		<b>28</b>	(Artimita)
Photo: M. Wickens					

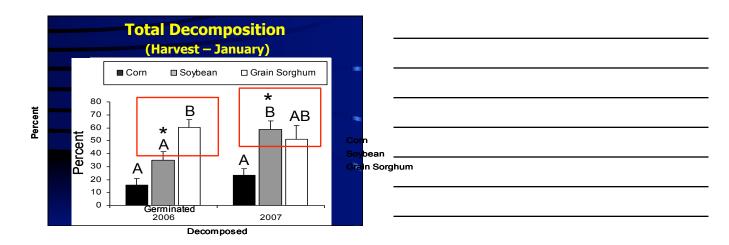
-	

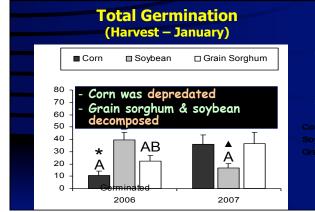
		Biomass (kg/ha) DED		)/ha	
Crop	n	x	SE	x	SE
Corn	39	6,260	591	78,079	7,416
Soybean	16	2,190	439	19,423	3,987
Grain Sorghum	4	3,051	601	35,874	7,183
A. YAX		征が高く	Moist- 0-1300 L	-soil = 5000 DE	D/ha

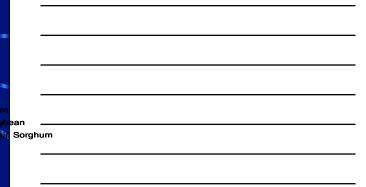












Percent





# **Create Hunting Access**





