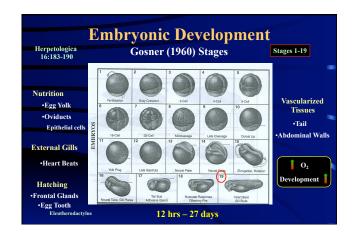
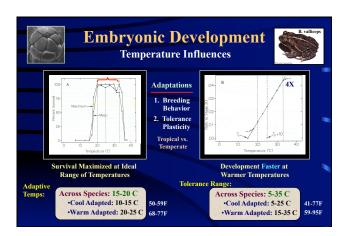
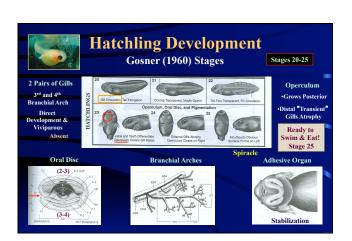
Tadpole Development, Ecology, and Metamorphosis Matthew J. Gray, Ph.D. College of Agricultural Sciences and Natural Resources University of Tennessee-Knoxville Goal of the Lecture

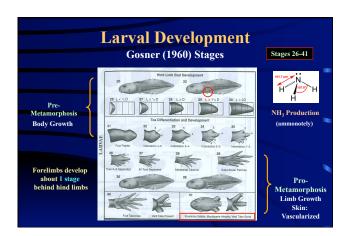
Goal of the Lecture	
To familiarize students with tadpole development and ecology, including	
metamorphosis.	
Reading Assignments:	
 See Website: Wells (2007) Altig et al. (2007): Freshwater Biology 52:386-395 (Req: website) Petranka and Kennedy: Oecologia 120:621-631 (Suppl: website) 	
o) Tetrama and recinces. Occorogia 120.021-001 (Suppl. Website)	

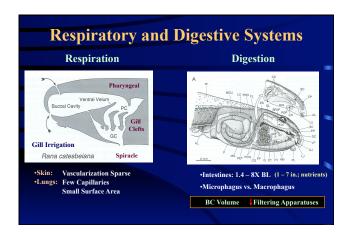
Lecture Structure	
I. Embryonic Development	
II. Hatchling Development	
III. Larval Development & Ecology	
IV. Metamorphosis	

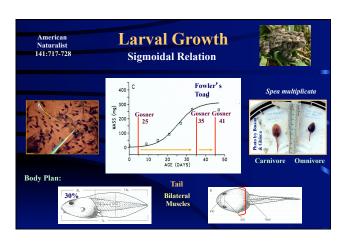




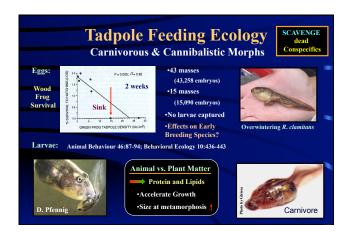


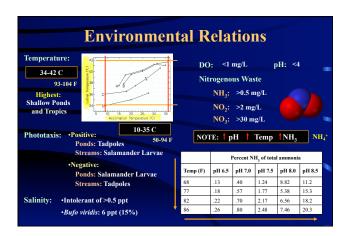


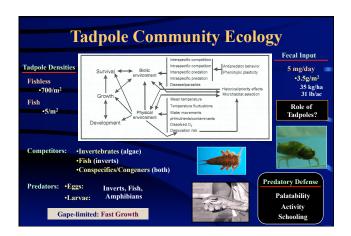


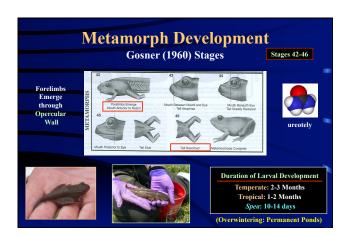


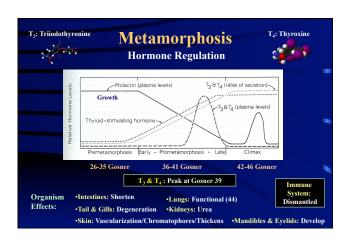












	Factors Trigg	ering Metamo	rphosis
F	Factors: •Density of Con •Competition •Cannibalism	specifics and Congeners	Ecology 63:905-911, Ecology 71:2313-2322, Ecology 79:1859-1872
		increases eases in presence	
	•Water Charact tality vs. Growth ner (1986, 1988) •Water volume		
Rov	we and Ludwig (1990, 1991) Vo	lume and Proximity to Water Surf	ace
	oScience 42(9):671-678	onary capability to exhibit different depending on environmental condit Developmental Plasticity	
	•1	Polyphenism (carnivorous vs omniv	orous)