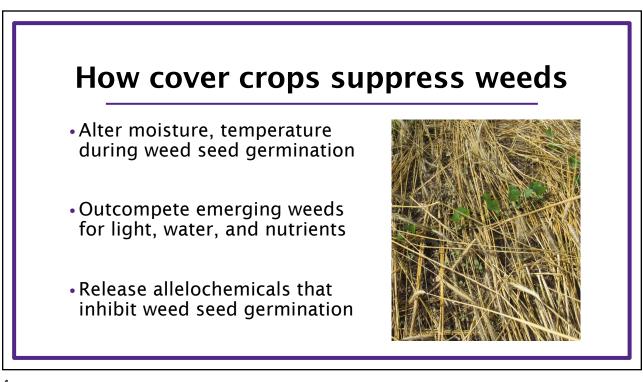
K-STATE Research and Extension



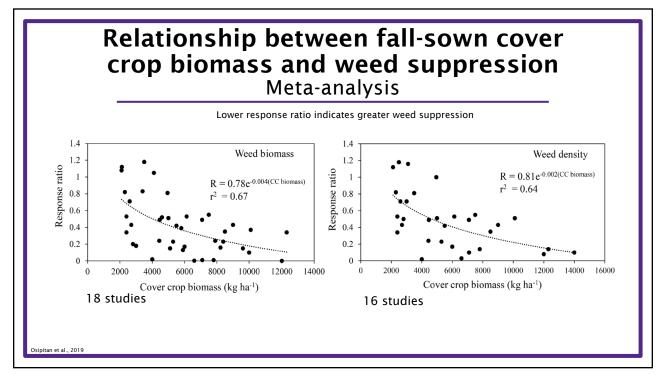
Sarah Lancaster Assistant Professor & Extension Specialist Kansas State University

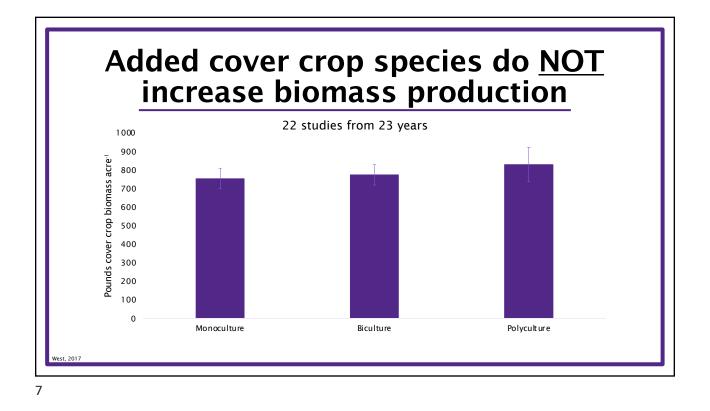
	Palmer amaranth	Waterhemp	Kochia
ALS inhibitors Group 2 (Classic, Harmony, Pursuit)	X	X	X
Plant growth regulators Group 4 (2,4-D, dicamba, Starane Ultra)	X		X
PSII inhibitors Group 5 (atrazine)	X	X	X
EPSPS inhibitor Group 9 (glyphosate)	X	X	X
Glutamine synthetase inhibitor Group 10 (glufosinate)	S		
PPO inhibitors Group 14 (Cobra, Reflex)	<, s	X	
HPPD inhibitors Group 27 (Armezon, Callisto, Laudis)	X		
Multiple resistance	3- & 5-way	2-way	2- & 4-way

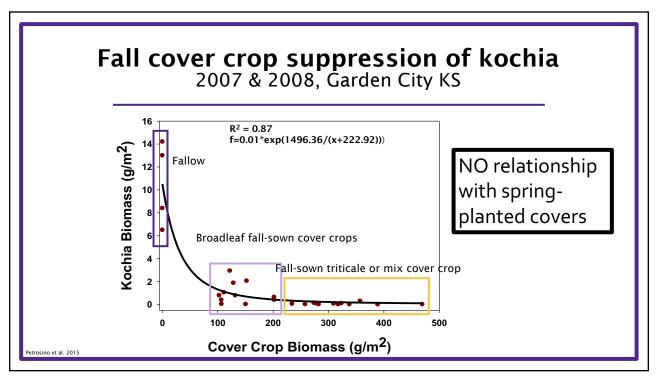


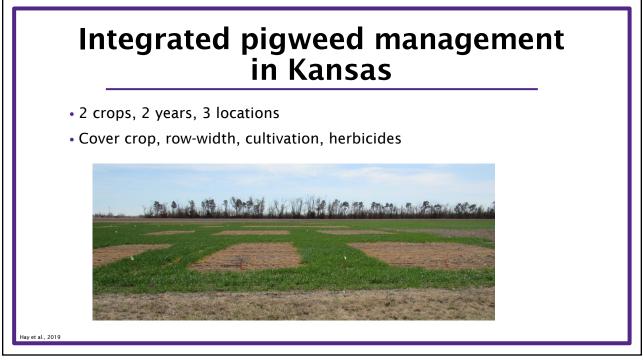


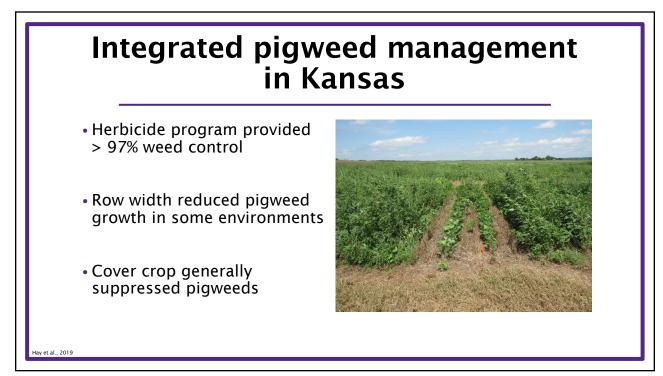


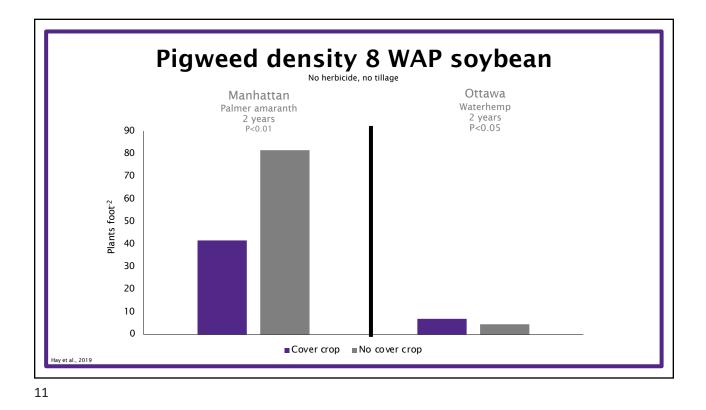


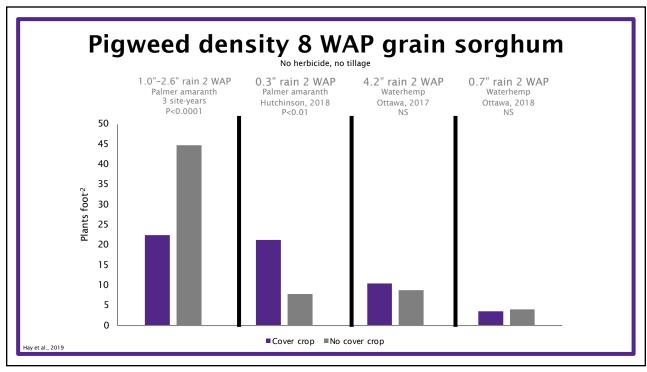


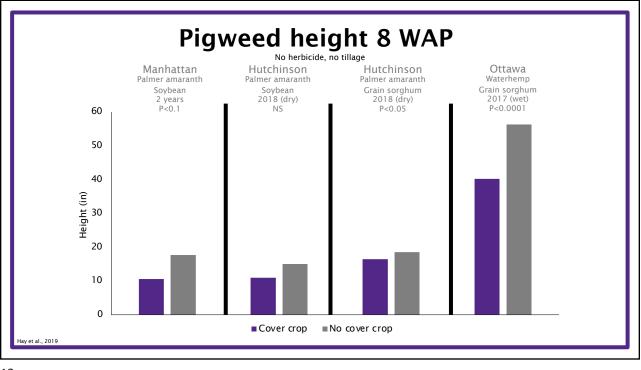




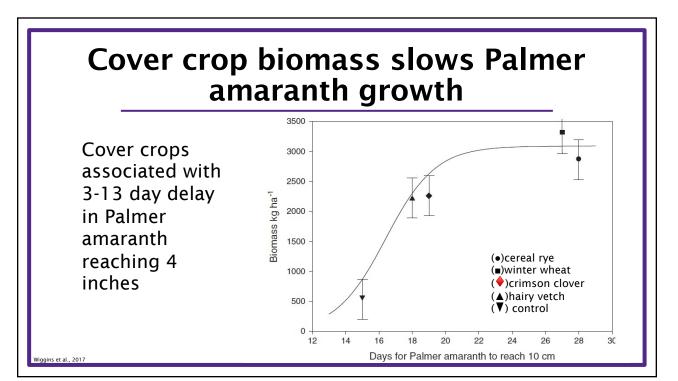












Cover crop management for weed suppression

Species selection

• Proportion of cereals or other 'aggressive' species in mix is key for weed suppression

Planting date
Sufficient cover crop biomass before key weeds emerge

- Termination
 - Closer to production crop planting increases weed suppression
 - Method less important

