

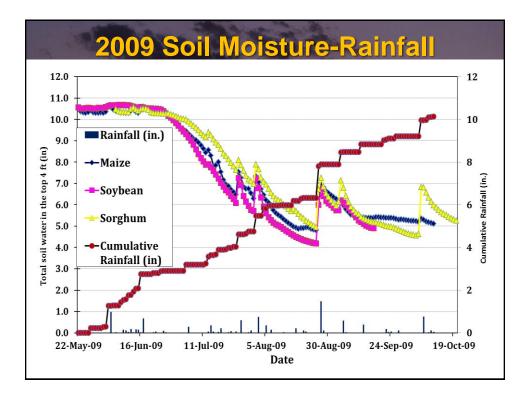
Nebrasika Lincoln EXTENSION Know how. Know now.						
Field Experimental Design						
Datalogger (8 soil	Сгор	Replication				
sensors/datalogger)	Sorghum					
4 sensors/crop	Corn	1				
Soil matric potential	Soybeans					
measured every ft. up to 4 ft.	Corn					
Matric potential and the second se	Soybeans	2				
converted to soil water	Sorghum					
in inch/ft using soil	Soybeans					
water retention curve.	Corn	3				
	Sorghum					

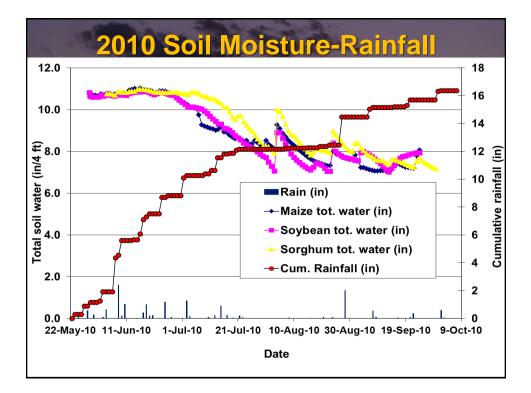


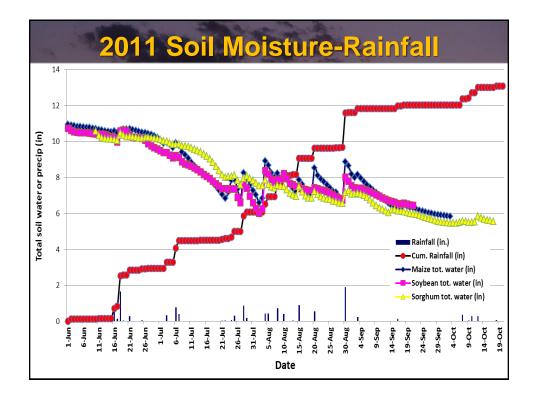
Nebraska Lincoln EXTENSION Know how. Know now.							
2009 Management Practices							
		LAWRENCE					
Parameter	Corn	Soybean	Sorghum				
Planting date	May 7	May 8	May 19				
Emergence date	May 16	May 16	May 23				
Maturity day/group	113-day	2.6	Medium- long				
"Full" maturity date	Oct 5	Sept 15	Oct 6				
Planting population (ppa)	20,000	135,000	65,000				
Hybrid/variety	33T57	92M61	85Y40				
Row spacing/planted rows	30"/12r	30"/12r	30"/12r				

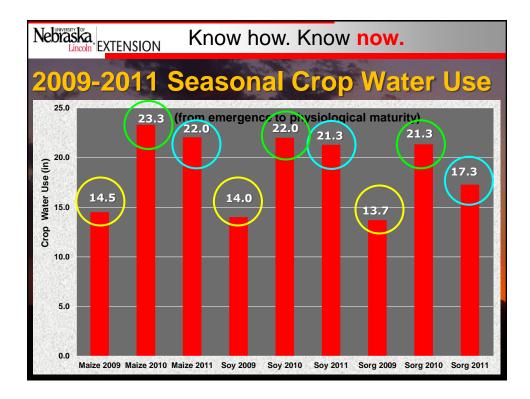
Nebraska Lincol EXTENSION Know how. Know now.							
2010 Management Practices							
		LAWRENCE					
Parameter	Corn	Soybean	Sorghum				
Planting date	May 7	May 7	May 28				
Emergence date	May 17	May 17	June 4				
Maturity day/group	113-day	2.6	Medium- long				
"Full" maturity date	Sept. 12	Aug. 30	Oct. 4				
Planting population (ppa)	20,000	135,000	65,000				
Hybrid/variety	33T57	92M61	85Y40				
Row spacing/planted rows	30"/12r	30"/12r	30"/12r				

Nebraska. Lincoln EXTENSION Know how. Know now.						
2011 Management Practices						
	LAWRENCE					
Parameter	Corn	Soybean	Sorghum			
Planting date	May 5	May 5	May 23			
Emergence date	June 3					
Maturity day/group	113-day	2.6	Medium- long			
"Full" maturity date	Sept. 16	Sept. 9	Oct. 8			
Planting population (ppa)	20,000	135,000	65,000			
Hybrid/variety	33T57	92M61	85Y40			
Row spacing/planted rows	30"/12r	30"/12 r	30"/12 r			



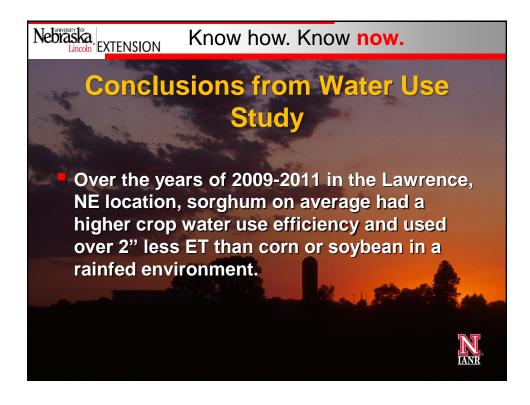






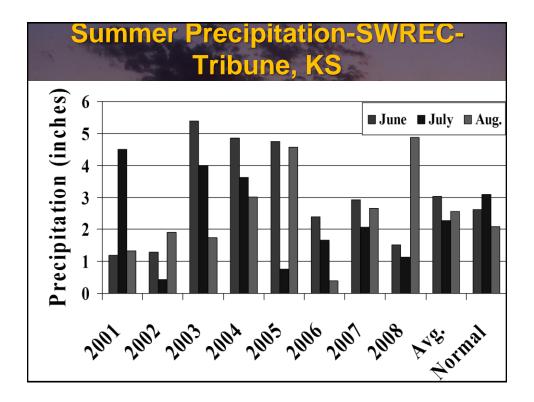
Nebraska Lincoln	Nebraska Lincoln EXTENSION Know how. Know now.								
	Crop Water Use Efficiency 2009-2011								
	2011 2011 2011 2010 2010 2010 2009 2009								
Corn					101.2	4.3	14.5	97.5	6.7
Soybean	21.3	61.3	2.9	22.0	44.0	2.0	14	33.4	2.4
Sorghum	17.3	138.9	8.0	21.3	118.0	5.5	13.7	77.4	5.6
		$\mathbf{\nabla}$							IANR.

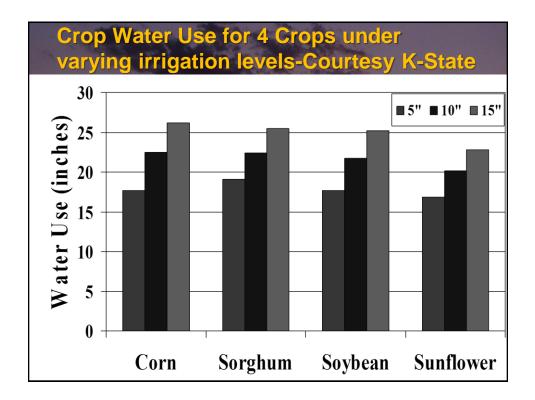
Averages for 2009-2011						
Crop	2009-2011 Avg Etc (in)	2009-2011 Avg Yield (bu/acre)	2009-2011 Avg CWUE (bu/in)			
Corn	19.9	108.6	5.6			
Soybean	19.1	42.3	2.4			
Sorghum	17.4	111.4	6.4			

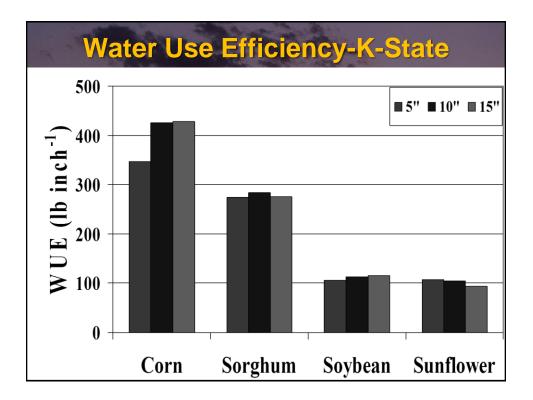




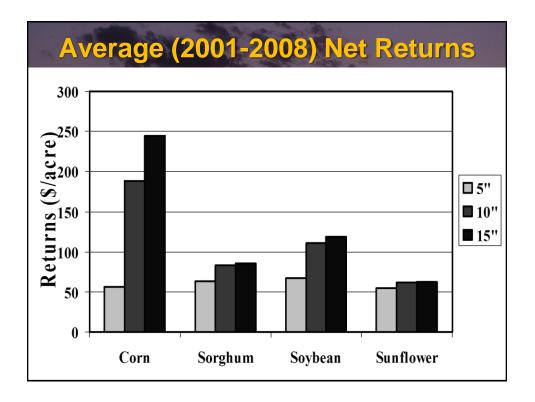


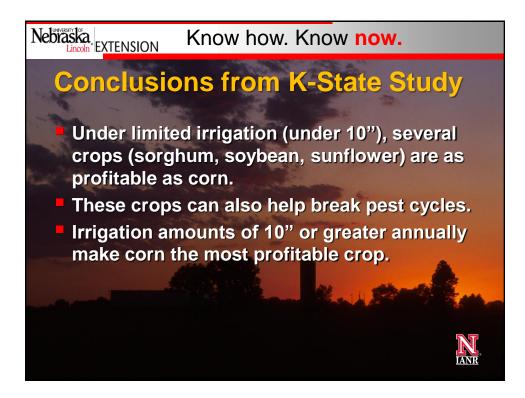






Average Grain Yield (2001-2008)- SWREC-Tribune, KS						
Irrigation Amt (acre/in)	Corn Yield (bu/acre)	Grain Sorghum Yield (bu/acre)	Soybean Yield (bu/acre)	Sunflower Yield (Ib/acre)		
5	113	94	31	1800		
10	172	111	42	2080		
15	201	123	47	2160		





## Texas Alliance for Water Conservation (2005-2011)

Crop	Yield/ acre	Inch/ acre	Yield/ inch	Profit/ acre	Profit/ inch
Sorghum	114.8	7.9	14.5	\$248.30	\$31.40
Corn	213.6	17.4	12.3	<b>\$479.40</b>	\$27.60
Cotton	1275	12.8	99.6	\$336. <b>50</b>	\$26.30

