Table 1: Cross-section Regression Models explaining Crop Revenue per Acre

	Log(Corn Rev) Cross-section (1)	Log(Cotton Rev) Cross-section (2)	Log(Hay Rev) Cross-section (3)	Log(Wheat Rev) Cross-section (4)	Log(Soybean Rev Cross-section (5)
Avg. Temperature	-6.44***	-10.06***	-5.80***	0.52	-3.51***
	(0.65)	(2.50)	(0.79)	(0.54)	(0.64)
Avg. Temperature Squared	-0.34***	1.10***	-0.84***	-0.01	-0.49***
	(0.07)	(0.30)	(0.07)	(0.04)	(0.06)
Precipitation	-0.23	0.01	-1.51***	-0.23*	0.11
	(0.17)	(0.31)	(0.21)	(0.12)	(0.14)
Precipitation Squared	-0.09***	-0.07**	-0.26***	-0.18***	-0.09***
	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)
Latitude	-5.52***	-8.02***	-5.45***	3.15***	-1.96***
	(0.54)	(1.21)	(0.61)	(0.41)	(0.54)
Income per Capita	0.00***	0.00	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Population Density	-0.01***	-0.02***	-0.01**	-0.00	-0.01***
	(0.00)	(0.01)	(0.00)	(0.00)	(0.00)
Population Density Squared	0.00***	0.00***	0.00	0.00	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Water Capacity	2.69***	2.79***	4.28***	1.57***	3.88***
	(0.24)	(0.80)	(0.29)	(0.22)	(0.23)
Percent Clay	-0.16***	0.93***	-0.39***	0.28***	0.20***
	(0.06)	(0.10)	(0.07)	(0.04)	(0.05)
Minimum Permeability	2.20***	6.55***	-3.87***	1.62***	1.56***
	(0.41)	(1.66)	(0.47)	(0.34)	(0.41)
K-factor of Top Soil	-64.95***	9.21	-105.60***	12.65*	-99.77***
	(9.17)	(19.79)	(12.60)	(7.47)	(7.28)
Best Soil Class	0.32***	0.06	0.25***	0.10***	0.12***
	(0.02)	(0.05)	(0.03)	(0.02)	(0.02)
Weights	Acres	Acres	Acres	Acres	Acres
Fixed-effect	State	State	State	State	State
Observations	2,268	762	1,842	2,184	2,073
$\mathbb{R}^2$	0.30	0.41	0.40	0.33	0.33
Adjusted R <sup>2</sup>	0.29	0.40	0.40	0.33	0.32

Table 2: Cross-section Regression Models explaining Crop Revenue per Acre

	Log(Corn Rev) Cross-section (1)	Log(Cotton Rev) Cross-section (2)	Log(Hay Rev) Cross-section (3)	Log(Wheat Rev) Cross-section (4)	Log(Soybean Rev Cross-section (5)
Degree Days (10-30C)	-0.03***	-0.02	-0.04***	0.03***	0.00
	(0.00)	(0.02)	(0.01)	(0.00)	(0.00)
Degree Days (10-30C) Squared	-0.00*	0.00***	-0.00***	0.00	-0.00**
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Degree Days (30C)	-0.11**	-0.18***	0.04	-0.18***	-0.33***
	(0.05)	(0.07)	(0.05)	(0.03)	(0.04)
Precipitation	-0.41**	-0.52	-1.40***	-0.82***	-0.46***
	(0.19)	(0.36)	(0.23)	(0.15)	(0.16)
Precipitation Squared	-0.09***	-0.03	-0.28***	-0.18***	-0.12***
-	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)
Latitude	-5.45***	-6.72***	-5.74***	4.55***	-1.80***
	(0.51)	(1.32)	(0.59)	(0.41)	(0.51)
Income per Capita	0.00***	0.00	0.00***	0.00***	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Population Density	-0.01***	-0.02**	$-0.01^{*}$	-0.00**	-0.01***
	(0.00)	(0.01)	(0.00)	(0.00)	(0.00)
Population Density Squared	0.00***	0.00**	0.00	0.00	0.00***
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Water Capacity	2.74***	2.51***	4.28***	1.39***	3.84***
	(0.24)	(0.80)	(0.29)	(0.22)	(0.23)
Percent Clay	-0.14**	0.91***	-0.38***	0.23***	0.19***
	(0.06)	(0.10)	(0.07)	(0.04)	(0.05)
Minimum Permeability	2.23***	6.73***	-3.82***	1.64***	1.34***
	(0.41)	(1.66)	(0.47)	(0.34)	(0.41)
K-factor of Top Soil	-65.33***	13.67	-107.52***	16.37**	-104.46***
	(9.20)	(19.74)	(12.75)	(7.41)	(7.31)
Best Soil Class	0.32***	0.08	0.25***	0.12***	0.12***
	(0.02)	(0.05)	(0.03)	(0.02)	(0.02)
Veights	Acres	Acres	Acres	Acres	Acres
Fixed-effect	State	State	State	State	State
Observations	2,268	762	1,842	2,184	2,073
$\mathbb{R}^2$	0.30	0.42	0.39	0.35	0.33
Adjusted R <sup>2</sup>	0.29	0.40	0.39	0.35	0.33

Table 3: Cross-section Regression Models explaining Proportion of Acres by Crop

	Corn Acres Cross-section (1)	Cotton Acres Cross-section (2)	Hay Acres Cross-section (3)	Wheat Acres Cross-section (4)	Soybean Acre Cross-section (5)
Avg. Temperature	-0.34	1.13***	$-0.15^*$	0.87	1.17***
	(0.22)	(0.25)	(0.08)	(0.79)	(0.39)
Avg. Temperature Squared	0.06	-0.25***	0.03	-0.13	-0.31***
	(0.06)	(0.06)	(0.02)	(0.20)	(0.10)
Precipitation	0.03	0.02	0.01	0.14*	0.07*
	(0.02)	(0.03)	(0.01)	(0.08)	(0.04)
Precipitation Squared	0.00	0.01**	-0.00***	-0.01	0.01
	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)
Latitude	0.16	-0.10	0.01	-0.13	0.04
	(0.11)	(0.13)	(0.04)	(0.40)	(0.20)
Income per Capita	0.00	-0.00**	0.00	0.00	-0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Population Density	-0.00	0.00	0.00***	0.00	0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Population Density Squared	0.00	-0.00	0.00	0.00**	0.00
	(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
Water Capacity	0.04	-0.13***	-0.00	-0.03	0.05
	(0.04)	(0.05)	(0.02)	(0.16)	(0.08)
Percent Clay	-0.01	0.01	-0.00	0.02	0.02
	(0.01)	(0.01)	(0.00)	(0.03)	(0.02)
Minimum Permeability	0.03	0.01	$-0.03^*$	0.41***	0.02
	(0.04)	(0.05)	(0.02)	(0.15)	(0.07)
K-factor of Top Soil	-1.25	0.55	0.45	11.39***	-4.47**
	(1.17)	(1.29)	(0.44)	(4.13)	(2.06)
Best Soil Class	0.01**	0.02***	-0.00**	0.02	0.02**
	(0.00)	(0.00)	(0.00)	(0.01)	(0.01)
Weights	Total Acres	Total Acres	Total Acres	Total Acres	Total Acres
Fixed-effect	State	State	State	State	State
Observations	61	61	61	61	61
$\mathbb{R}^2$	0.42	0.63	0.66	0.42	0.41
Adjusted R <sup>2</sup>	0.26	0.53	0.57	0.26	0.24

Table 4: Cross-section Regression Models explaining Proportion of Acres by Crop

	Cross-section	Cross-section	Cross-section	Soybean Acres Cross-section
(1)	(2)	(3)	(4)	(5)
-0.00	0.01***	-0.00	-0.00	0.01***
(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
0.00	-0.00***	0.00	-0.00	-0.00***
(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
-0.02***	-0.01	-0.00	0.08***	-0.03**
(0.01)	(0.01)	(0.00)	(0.02)	(0.01)
0.01	0.01	0.01	0.21***	0.05
(0.02)	(0.03)	(0.01)	(0.08)	(0.04)
-0.00	0.01**	-0.00***	-0.01	0.01
(0.00)	(0.00)	(0.00)	(0.01)	(0.01)
0.18*	-0.14	0.02	-0.21	0.03
(0.10)	(0.12)	(0.04)	(0.34)	(0.19)
0.00	-0.00**	0.00	0.00	0.00
(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
-0.00	0.00	0.00***	0.00	0.00
(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
0.00**	-0.00	0.00	0.00	0.00**
(0.00)	(0.00)	(0.00)	(0.00)	(0.00)
0.02	-0.13**	-0.01	0.07	0.02
(0.04)	(0.05)	(0.02)	(0.14)	(0.08)
-0.02**	0.00	-0.01	0.07**	0.00
(0.01)	(0.01)	(0.00)	(0.03)	(0.02)
0.01	0.00	-0.03**	0.53***	-0.01
(0.04)	(0.05)	(0.02)	(0.14)	(0.07)
-0.65	0.89	0.48	8.75**	$-3.43^{*}$
(1.11)	(1.36)	(0.46)	(3.78)	(2.05)
0.01**	0.02***	-0.00**	0.02	0.02**
(0.00)	(0.00)	(0.00)	(0.01)	(0.01)
Acres	Acres	Acres	Acres	Acres
State	State	State	State	State
61	61	61	61	61
				$0.45 \\ 0.28$
	(0.00) 0.00 (0.00) -0.02*** (0.01) 0.01 (0.02) -0.00 (0.00) 0.18* (0.10) 0.00 (0.00) -0.00 (0.00) 0.00** (0.00) 0.02 (0.04) -0.02** (0.01) 0.01 (0.04) -0.65 (1.11) 0.01** (0.00) Acres State 61 0.50 0.36	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$