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	6.63***	-50.91***	26.14***	0.83	14.81***
	(2.48)	(12.94)	(2.45)	(1.45)	(2.17)
Avg. Temperature Squared	-0.35***	1.10***	-0.86***	-0.01	-0.49***
	(0.07)	(0.30)	(0.07)	(0.04)	(0.06)
Precipitation	4.55***	3.72**	13.06***	9.81***	5.18***
	(0.92)	(1.47)	(1.23)	(0.59)	(0.72)
Precipitation Squared	-0.09***	-0.07**	-0.27***	-0.18***	-0.09***
	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)
Latitude	-5.57***	-7.99***	-5.51***	3.18***	-1.96***
	(0.53)	(1.20)	(0.60)	(0.40)	(0.53)
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***	-0.00	-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***	2.76***	4.34***	1.56***	3.89***
	(0.23)	(0.79)	(0.29)	(0.22)	(0.23)
Percent Clay	-0.15**	0.92***	-0.33***	0.28***	0.20***
	(0.06)	(0.10)	(0.07)	(0.04)	(0.05)
Minimum Permeability	2.22***	6.55***	-3.57***	1.60***	1.55***
	(0.39)	(1.65)	(0.44)	(0.34)	(0.41)
K-factor of Top Soil	-64.87^{***}	8.71	-104.04***	12.28*	-99.83***
	(8.89)	(19.72)	(12.15)	(7.40)	(7.23)
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	2,324	767	1,895	2,215	2,108
\mathbb{R}^2	0.29	0.41	0.40	0.33	0.32
Adjusted R^2	0.29	0.40	0.39	0.33	0.32

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

	Log(Corn Rev)	Log(Cotton Rev) Cross-section	Log(Hay Rev) Cross-section	Log(Wheat Rev) Cross-section	Log(Soybean Rev Cross-section
	Cross-section				
	(1)	(2)	(3)	(4)	(5)
Degree Days (10-30C)	-0.03***	0.01	-0.02***	0.03***	0.01
	(0.00)	(0.01)	(0.01)	(0.00)	(0.00)
Degree Days (30C)	-0.13***	-0.21***	-0.05	-0.18***	-0.34***
	(0.05)	(0.06)	(0.05)	(0.03)	(0.04)
Precipitation	4.74***	0.91	15.91***	9.14***	6.63***
•	(0.91)	(1.71)	(1.28)	(0.56)	(0.66)
Precipitation Squared	-0.09***	-0.03	-0.32***	-0.18***	-0.13***
	(0.02)	(0.03)	(0.02)	(0.01)	(0.01)
Latitude	-5.46***	-8.12***	-5.54***	4.63***	-1.77***
	(0.50)	(1.24)	(0.59)	(0.40)	(0.50)
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***	-0.01*	-0.00	-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	2.77***	2.11***	4.26***	1.38***	3.88***
	(0.23)	(0.79)	(0.30)	(0.22)	(0.23)
Percent Clay	-0.11*	0.89***	-0.29***	0.23***	0.20***
	(0.06)	(0.10)	(0.07)	(0.04)	(0.05)
Minimum Permeability	2.32***	7.55***	-3.22***	1.61***	1.32***
	(0.39)	(1.64)	(0.46)	(0.33)	(0.41)
K-factor of Top Soil	-63.81***	25.85	-96.21***	15.29**	-103.05***
	(8.88)	(19.35)	(12.59)	(7.31)	(7.24)
Best Soil Class	0.32***	0.10**	0.27***	0.12***	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	2,324	767	1,895	2,215	2,108
\mathbb{R}^2	0.29	0.41	0.35	0.35	0.33
Adjusted R ²	0.29	0.40	0.35	0.35	0.32

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	Soybean Acres Cross-section (5)
				(4)	
Avg. Temperature	-2.49 (2.30)	10.38*** (2.55)	-1.32 (0.87)	5.87 (8.13)	12.61*** (4.05)
Avg. Temperature Squared	0.06 (0.06)	-0.25*** (0.06)	0.03 (0.02)	-0.13 (0.20)	-0.31*** (0.10)
Precipitation	0.00 (0.17)	-0.39** (0.19)	0.21*** (0.06)	0.90 (0.60)	-0.21 (0.30)
Precipitation Squared	0.00 (0.00)	0.01** (0.00)	-0.00*** (0.00)	-0.01 (0.01)	0.01 (0.01)
Latitude	0.16 (0.11)	-0.10 (0.13)	0.01 (0.04)	-0.13 (0.40)	0.04 (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)	-0.01** (0.01)	-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	$0.04 \\ (0.04)$	-0.13^{***} (0.05)	-0.00 (0.02)	-0.03 (0.16)	$0.05 \\ (0.08)$
Percent Clay	-0.01 (0.01)	0.01 (0.01)	-0.00 (0.00)	0.02 (0.03)	0.02 (0.02)
Minimum Permeability	0.03 (0.04)	0.01 (0.05)	-0.03* (0.02)	0.41*** (0.15)	0.02 (0.07)
K-factor of Top Soil	-1.25 (1.17)	0.55 (1.29)	0.45 (0.44)	11.39*** (4.13)	-4.47^{**} (2.06)
Best Soil Class	0.01** (0.00)	0.02*** (0.00)	-0.00** (0.00)	0.02 (0.01)	0.02** (0.01)
Weights Fixed-effect Observations R^2 Adjusted R^2	Total Acres State 61 0.42 0.26	Total Acres State 61 0.63 0.53	Total Acres State 61 0.66 0.57	Total Acres State 61 0.42 0.26	Total Acres State 61 0.41 0.24

Table 4: 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 Acres Cross-section (5)
Degree Days (10-30C)	0.00 (0.00)	0.00* (0.00)	-0.00 (0.00)	-0.00* (0.00)	0.00** (0.00)
Degree Days (30C)	-0.02^{***} (0.01)	-0.01 (0.01)	-0.00 (0.00)	0.07*** (0.02)	$-0.03** \\ (0.01)$
Precipitation	-0.03 (0.16)	-0.30 (0.22)	0.19*** (0.07)	1.02* (0.54)	-0.12 (0.31)
Precipitation Squared	0.00 (0.00)	0.00 (0.00)	-0.00^{***} (0.00)	-0.02 (0.01)	$0.00 \\ (0.01)$
Latitude	0.15 (0.10)	-0.06 (0.14)	$0.01 \\ (0.04)$	-0.13 (0.34)	0.12 (0.19)
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^{***} (0.00)	0.00 (0.00)	-0.00 (0.00)	-0.01 (0.01)	-0.01^* (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	$0.02 \\ (0.04)$	-0.12** (0.06)	-0.01 (0.02)	0.07 (0.14)	0.03 (0.08)
Percent Clay	-0.02** (0.01)	$0.00 \\ (0.01)$	-0.01 (0.00)	0.08** (0.03)	$0.00 \\ (0.02)$
Minimum Permeability	$0.00 \\ (0.04)$	0.01 (0.06)	-0.03** (0.02)	0.53*** (0.14)	-0.01 (0.08)
K-factor of Top Soil	-0.99 (1.11)	1.86 (1.49)	0.36 (0.45)	9.75*** (3.74)	-2.36 (2.13)
Best Soil Class	0.01** (0.00)	0.02*** (0.00)	-0.00^* (0.00)	0.02 (0.01)	0.02** (0.01)
Weights Fixed-effect Observations R^2 Adjusted R^2	Acres State 61 0.48 0.34	Acres State 61 0.51 0.38	Acres State 61 0.64 0.54	Acres State 61 0.52 0.40	Acres State 61 0.36 0.19