

Appendix

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1 Data

1.1 Explanation

We have district-level panel data for the 11 districts (Merz) of Armenia from the years 2004 to 2023. It consists of variables from aggregated household surveys, variables on detailed agricultural output and drought-related variables. Every variable represents the average level in a particular year in a particular district.

1.1.1 Variable Names & Units

- In Armenian Dram (currency):
 - income: Household income
 - agric_income: Household agriculture income
 - fdcons: Household food consumption
 - fdpurch: Household food purchases
 - exp: Household expenditures
 - agric_output: Gross Agriculture output **real?**
- In Percentage:
 - poverty: Rate of households in poverty
 - urban: Rate of households living in an urban area
 - share: Share of observations of SPEI above +1
 - agric_stress: Percentage of arable areas with a VHI (Vegetable Health Index) value below 35%
- Dummies:
 - drought_dummy1:
 - drought_dummy2:
- Tons (1000kg)
 - grains_harvest: Tons of grains and leguminous plants harvested
 - vegetables_harvest: Tons of vegetables harvested
 - fruits_harvest: Tons of fruits and berries harvested
 - potatoes_harvest: Tons of potatoes harvested
 - watermelon_harvest: Tons of watermelons harvested
 - grapes_harvest: Tons of grapes harvested
- Hectare (1000km²)
 - grains_area: Hectares used for harvesting grains and leguminous plants
 - vegetables_area: Hectares used for harvesting vegetables
 - fruits_area: Hectares used for harvesting fruits and berries
 - potatoes_area: Hectares used for harvesting potatoes
 - watermelon_area: Hectares used for harvesting watermelons
 - grapes_area: Hectares used for harvesting grapes
- Tons per hectare (1000kg / 1000km²)
 - output_per_field_grains: Grains harvested divided by area
 - output_per_field_vegetables: Vegetables harvested divided by area
 - output_per_field_fruits: Fruits harvested divided by area
 - output_per_field_potatoes: Potatoes harvested divided by area
 - output_per_field_grapes: Grapes harvested divided by area
- Other:

- spei: SPEI measures deviation of the water balance from the long term mean. A value of 0 means we are at the long term mean, while +1 is a moderate drought that happens once or twice in 10 years. Note that we took the official SPEI and multiplied it by (-1) in order to adjust the coefficient sign interpretation in the regressions. Positive values indicate harsher conditions.
- temperature: CRU land-based measure of average surface temperature in celsius

2 Descriptive Evidence

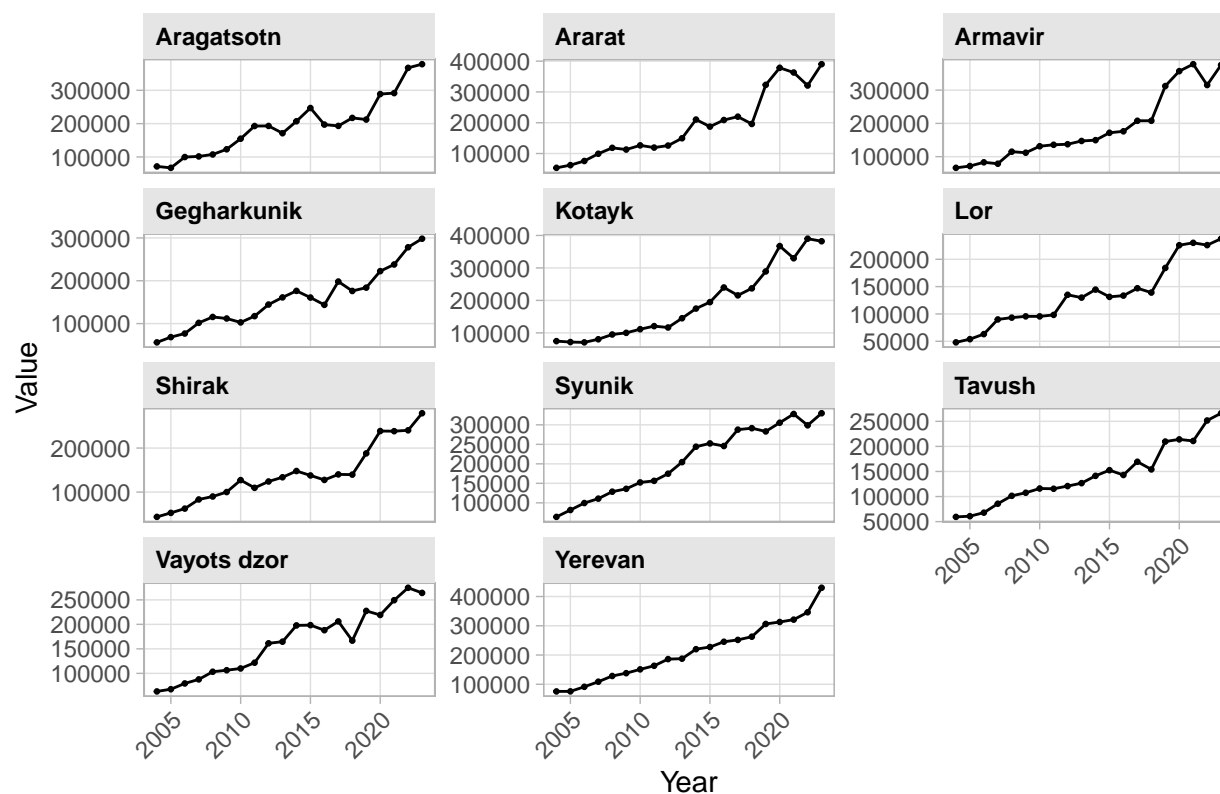
2.1 Summary Statistics

Table 1: Summary Statistics

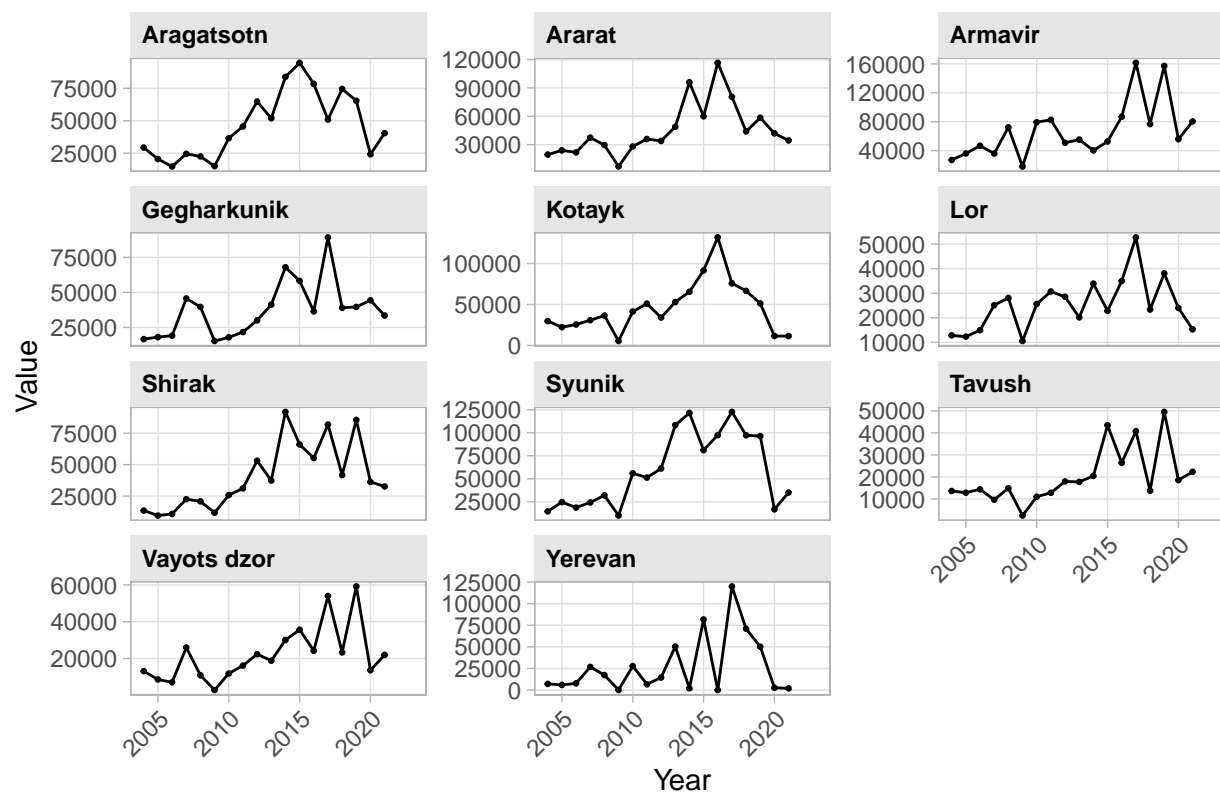
| Variable | Mean | SD | Median | Min | Max |
|-------------------------|-----------|----------|-----------|----------|-----------|
| agric_income | 39837.36 | 30467.86 | 30956.55 | 0.00 | 161496.48 |
| agric_output | 75.97 | 47.23 | 69.05 | 4.90 | 225.10 |
| agric_stress | 0.06 | 0.12 | 0.01 | 0.00 | 0.78 |
| fdcons | 13102.63 | 6403.40 | 12615.93 | 1931.74 | 40376.19 |
| income | 174691.18 | 87785.61 | 151666.73 | 43655.19 | 429931.04 |
| output_per_field_fruits | 6.53 | 4.19 | 5.08 | 0.41 | 18.16 |
| output_per_field_grains | 2.55 | 0.98 | 2.55 | 0.00 | 4.87 |
| poverty | 0.24 | 0.09 | 0.24 | 0.02 | 0.43 |
| share | 0.19 | 0.16 | 0.15 | 0.00 | 0.64 |
| spei | 0.06 | 0.51 | 0.05 | -1.03 | 1.31 |
| urban | 0.59 | 0.22 | 0.50 | 0.31 | 1.00 |

2.2 Raw Data Graphs

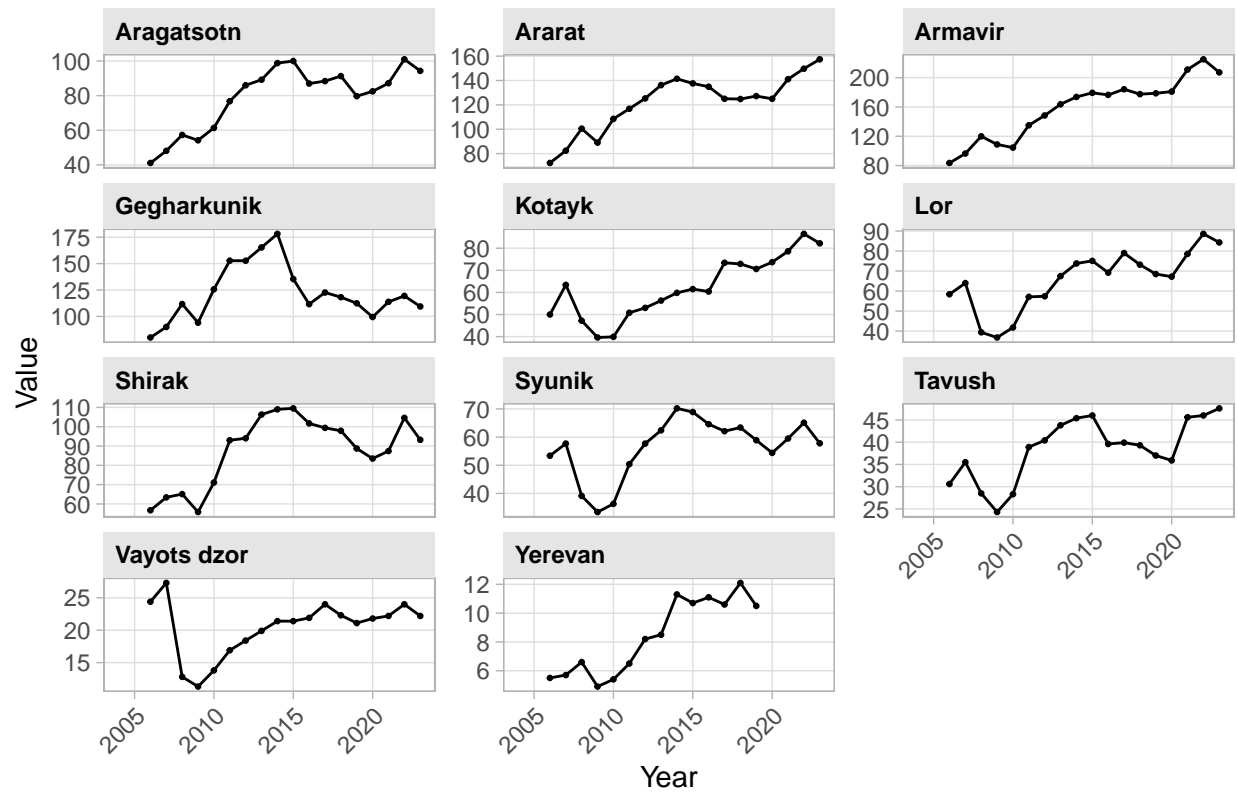
Evolution of: Household Income



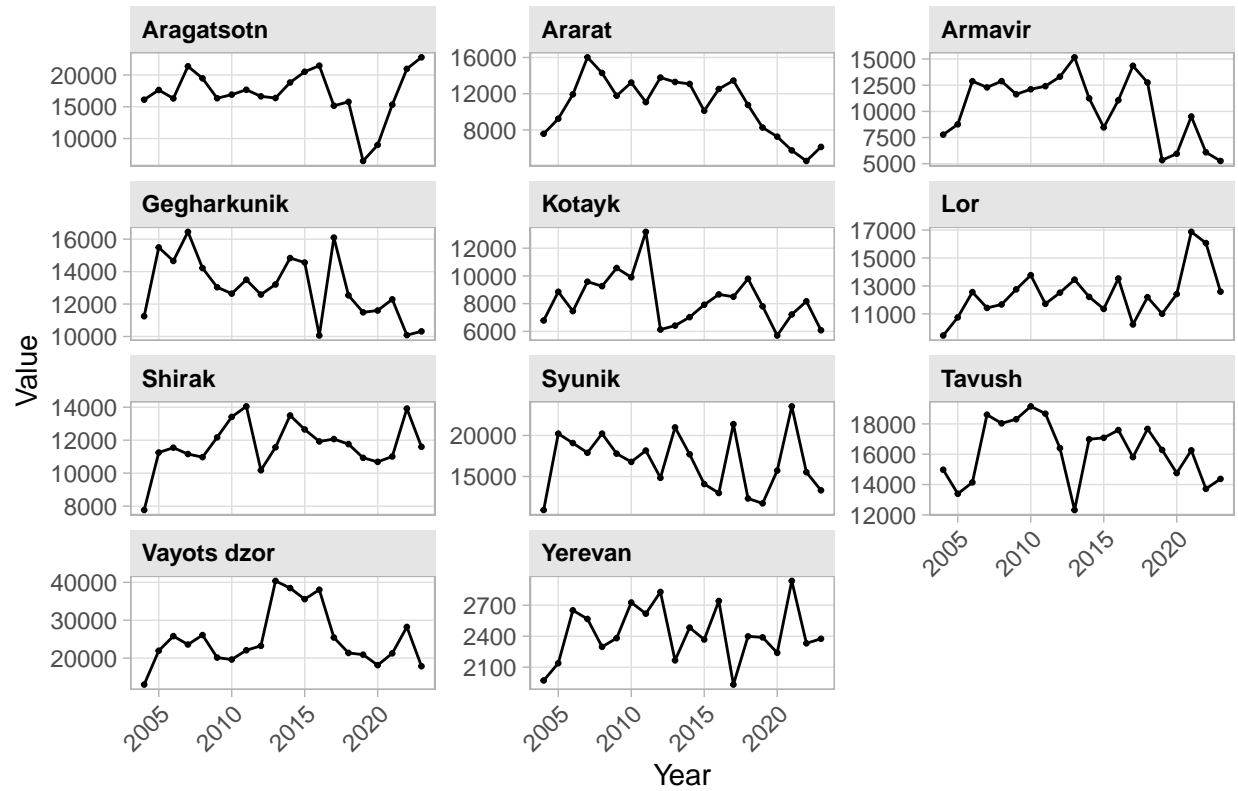
Evolution of: Household Agricultural Income



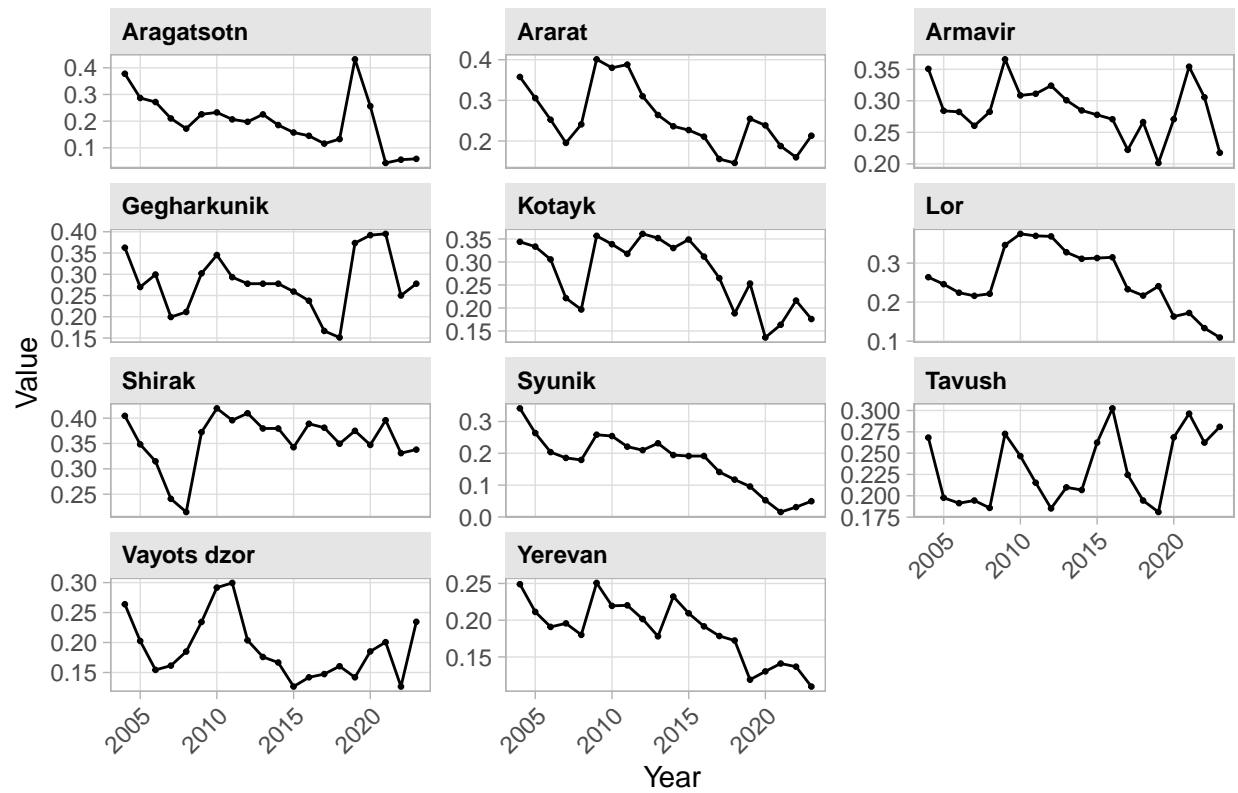
Evolution of: Gross Agricultural Output



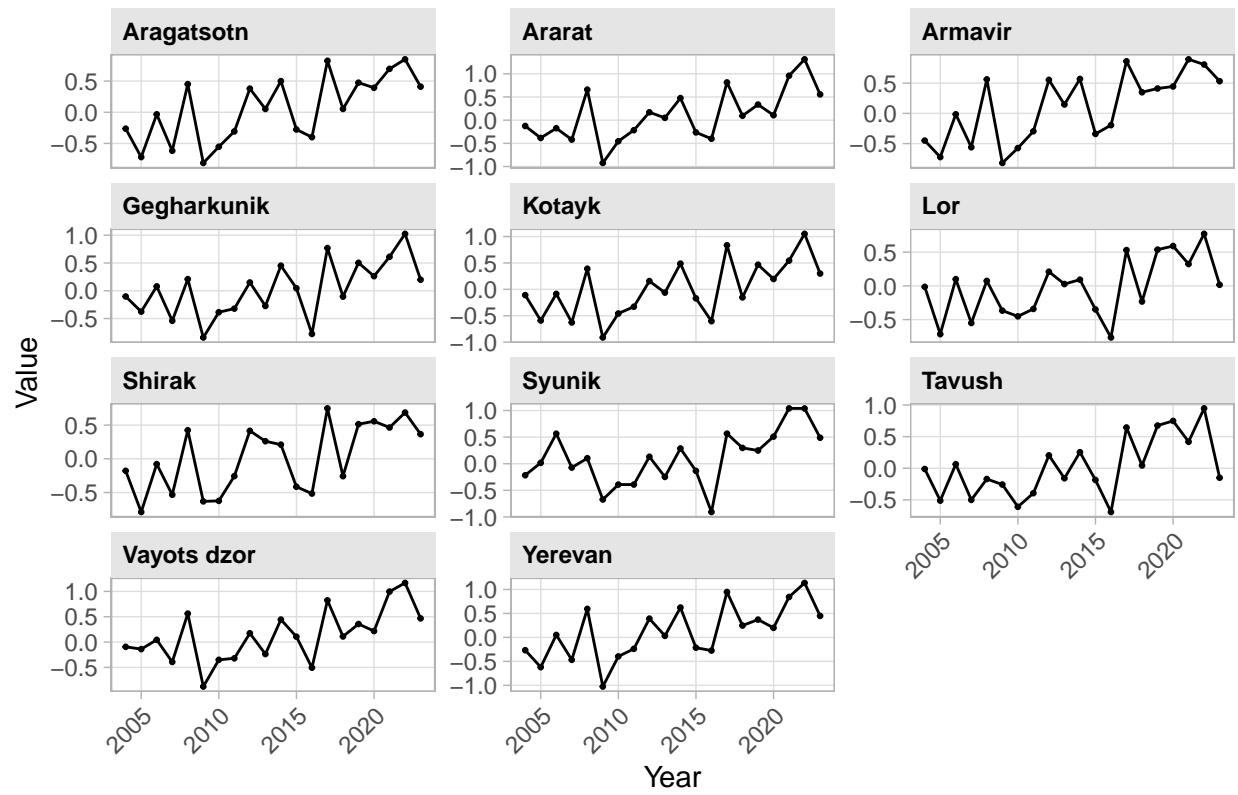
Evolution of: Household food Consumption



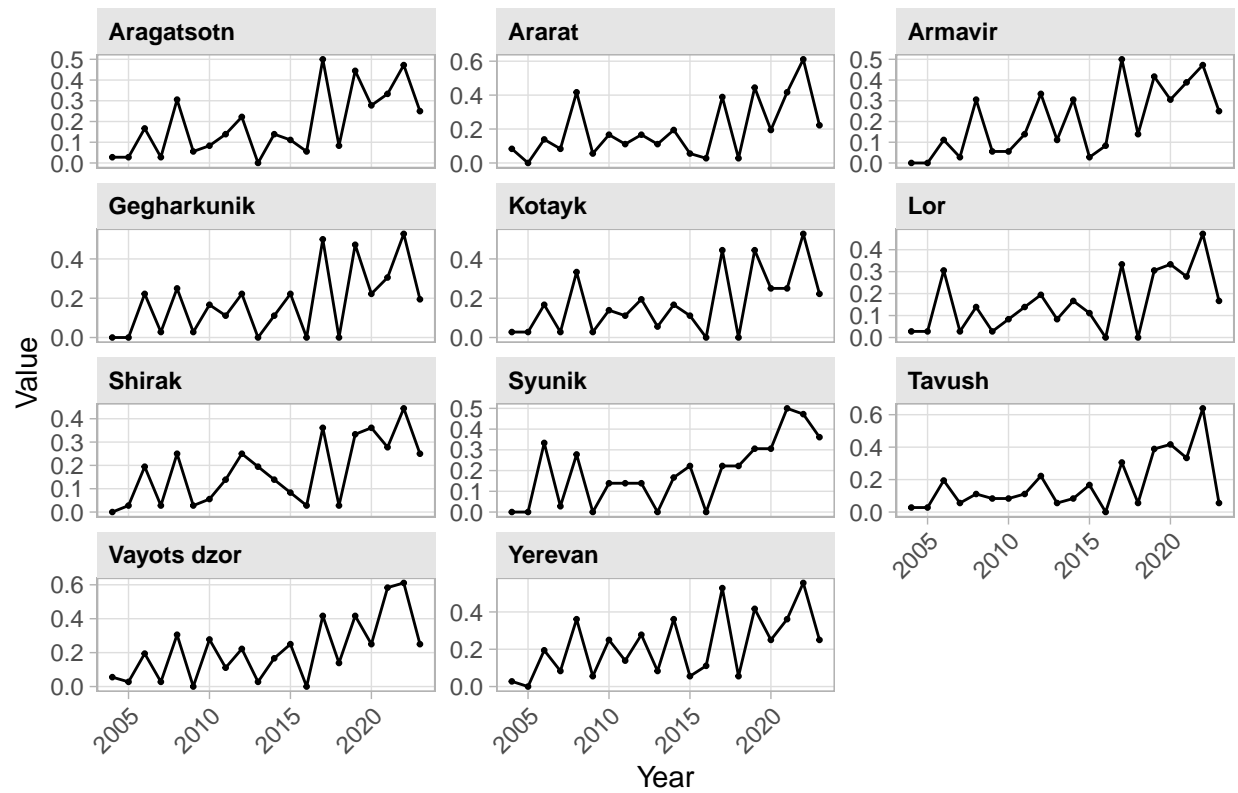
Evolution of: Rate of households in poverty



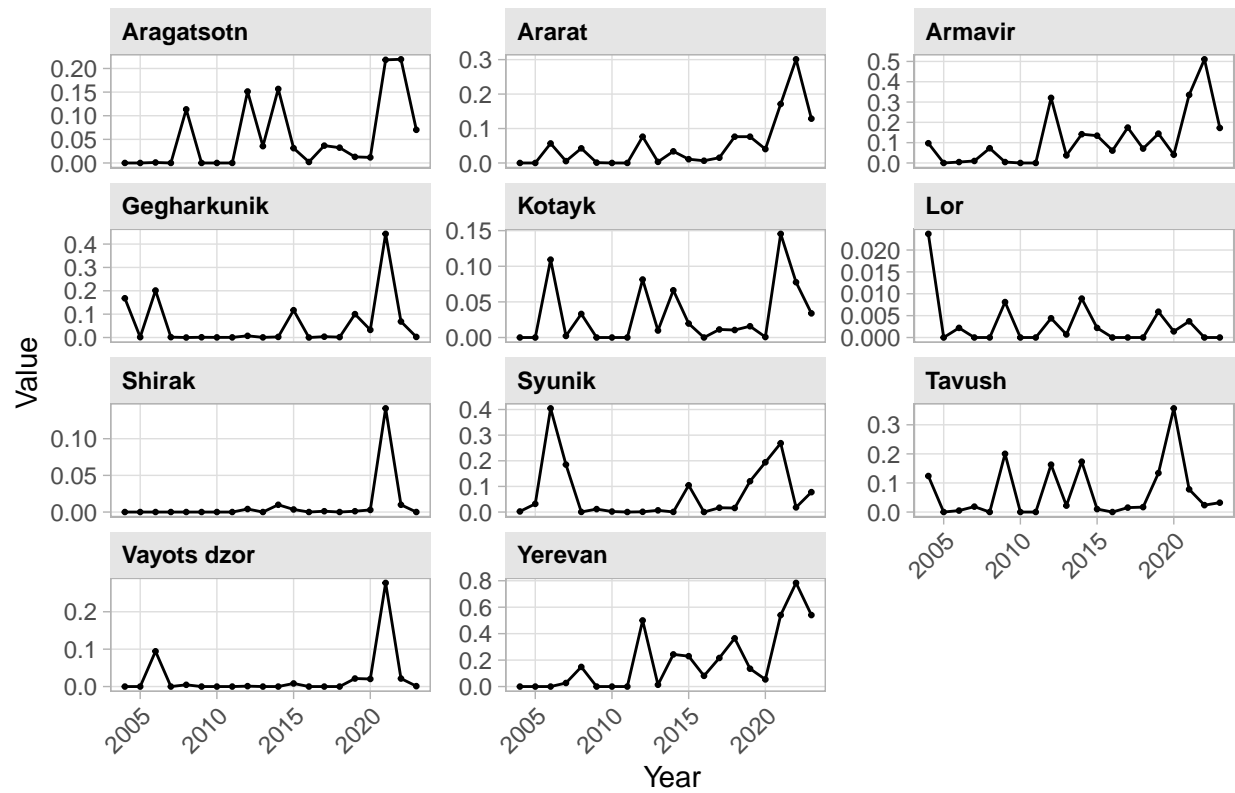
Evolution of: SPEI (Drought Index)



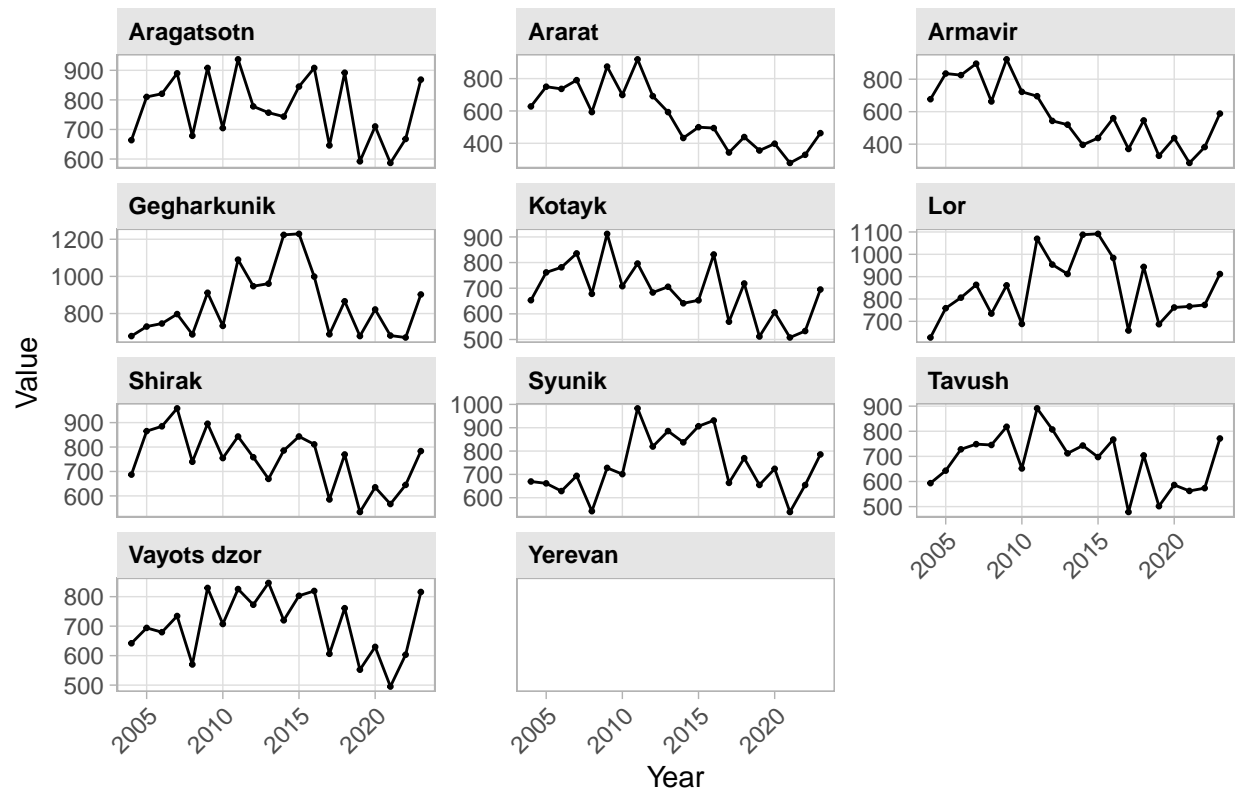
Evolution of: Share of observations of SPEI above +1



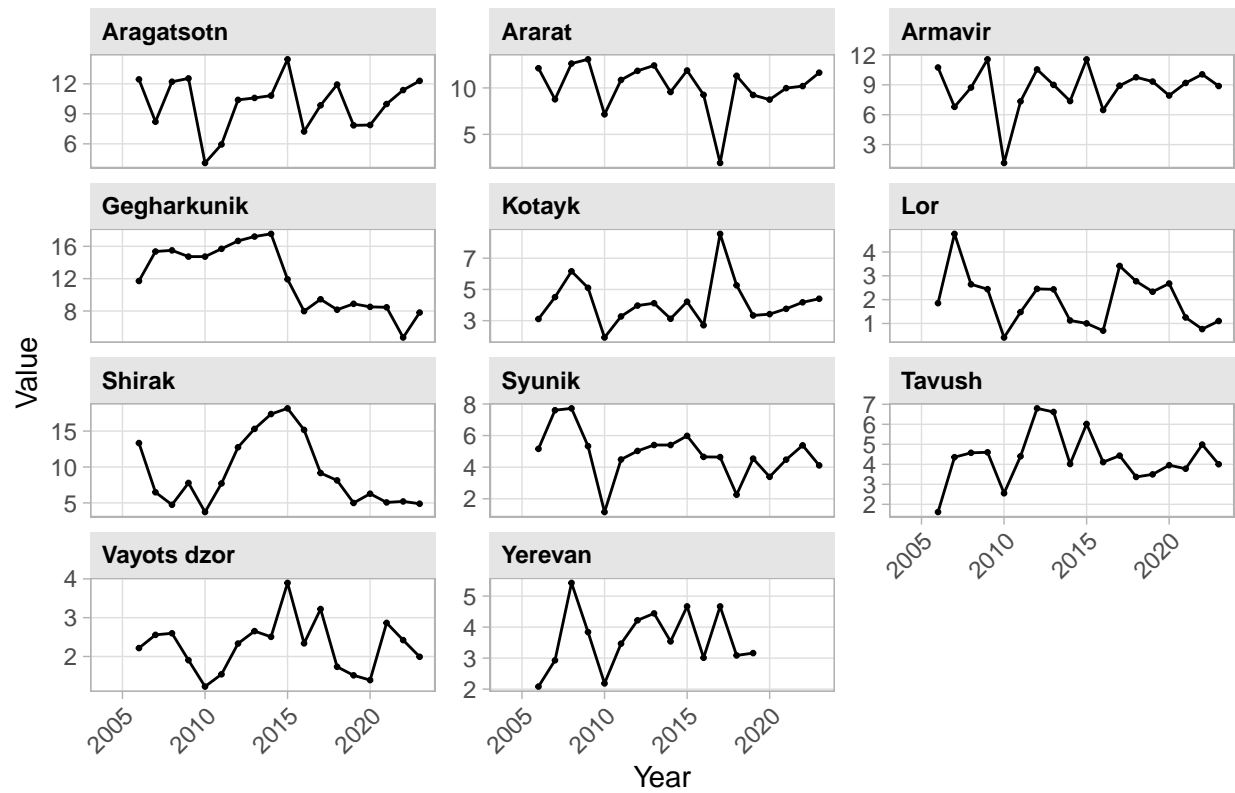
Evolution of: Agricultural Stress



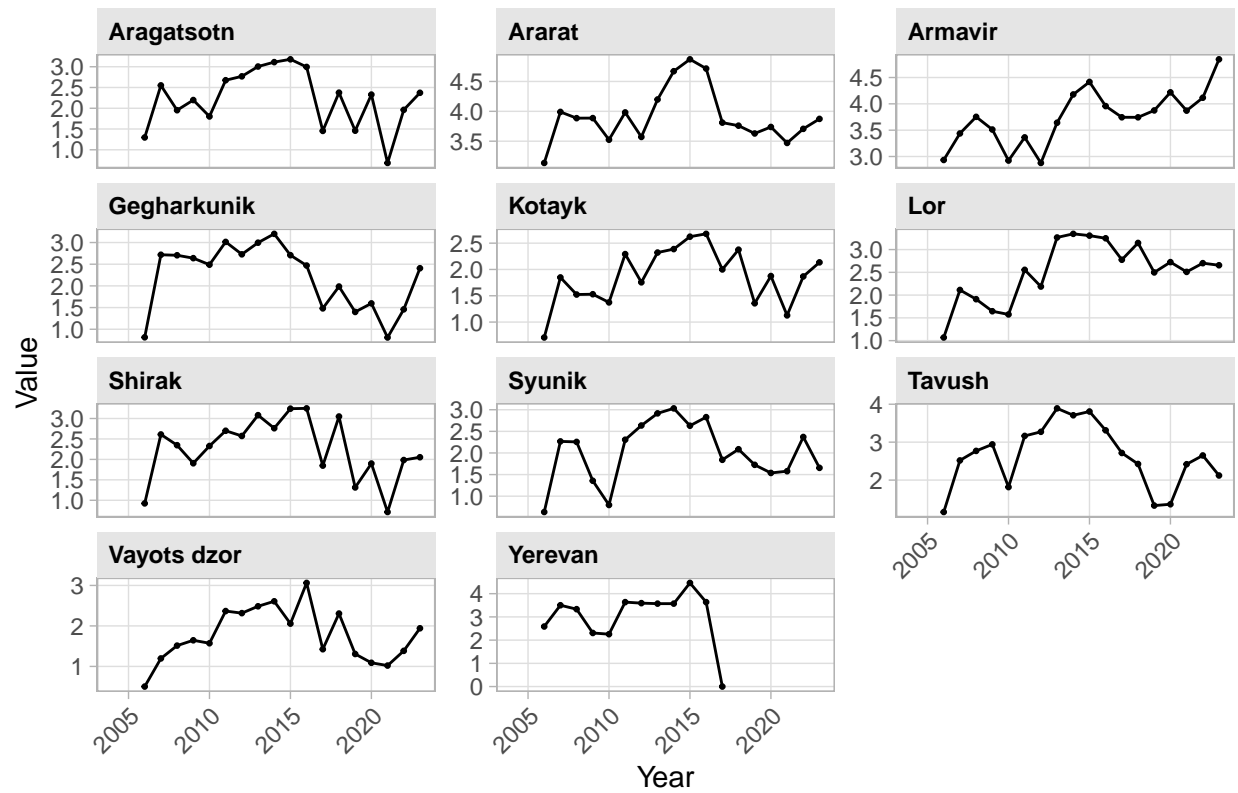
Evolution of: Total Rainfall



Evolution of: Fruits Yield



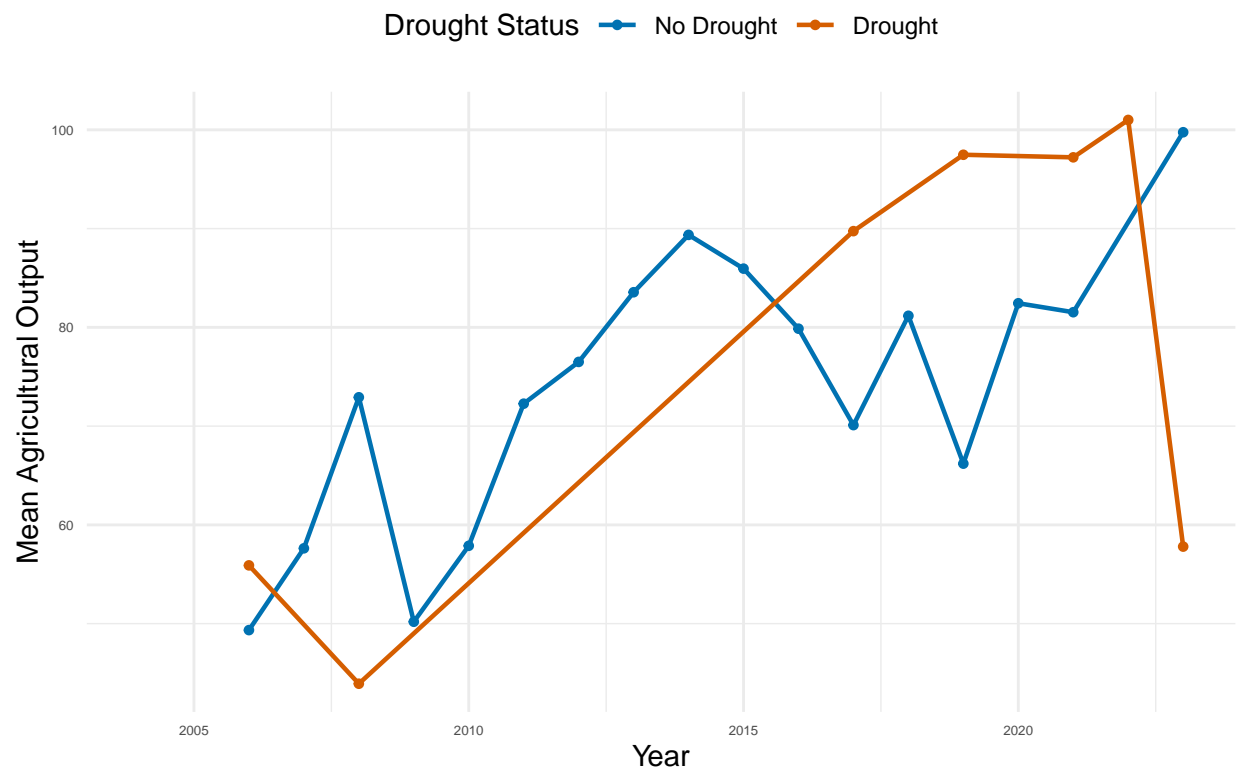
Evolution of: Grains Yield



2.3 Graphs with Drought Dummy

Note: This graph should be interpreted with caution as the number of districts is very low, meaning that any kind of visible relationship is very likely due to confounding effects and between-district variation.

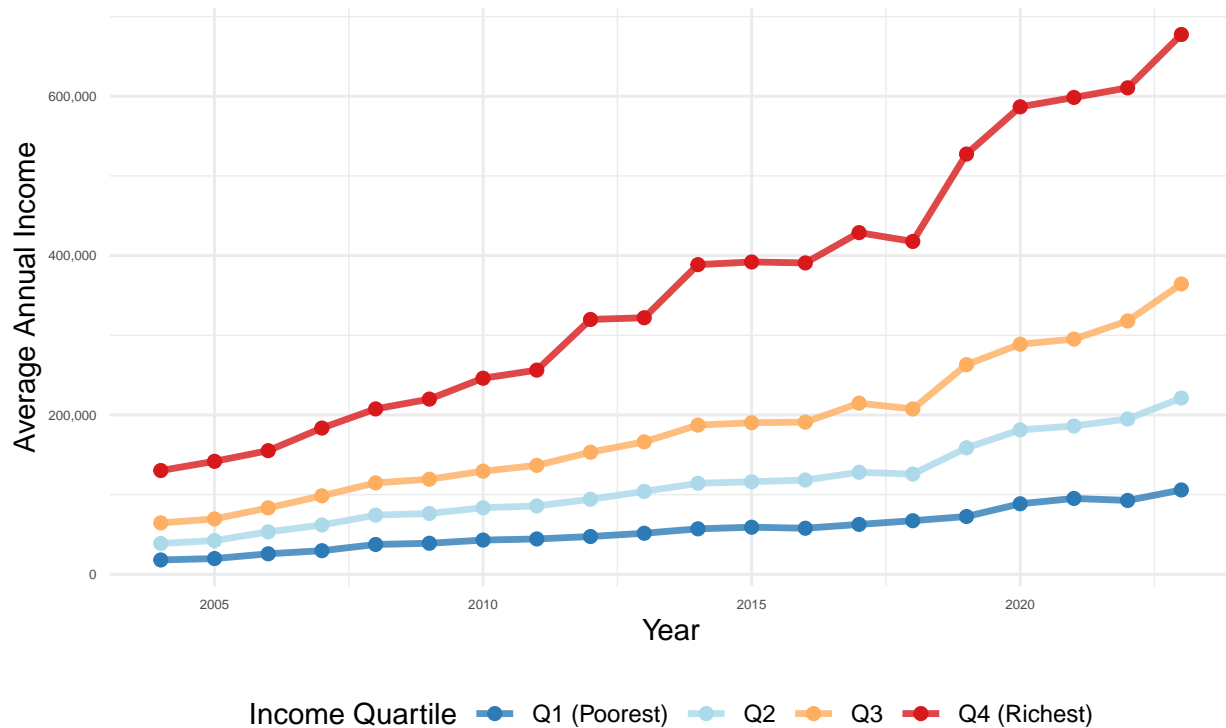
Impact of Drought on Agricultural Output



2.4 Graphs with Drought Dummy and Quartiles

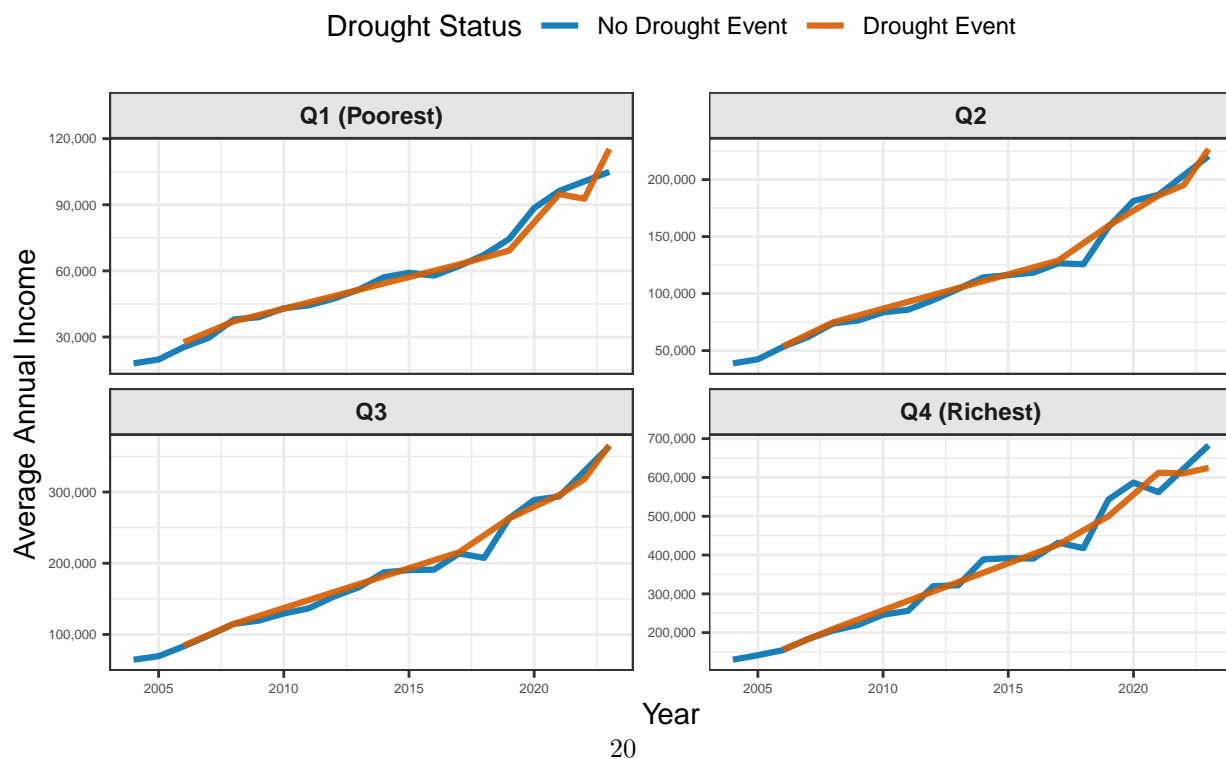
Average Income by Income Quartile Over Time

Averaged across all districts



Impact of Drought Events on Income, by Income Quartile

Average income trends faceted by income group



3 TWFE Regressions

3.1 Data

3.1.1 Variable Units

- Armenian Dram (currency):
 - Income
 - Agriculture income
 - Agriculture output
 - Food consumption
- Tons (1000kg)
 - Grains harvest
 - Vegetables harvest
 - Fruits harvest
 - Potatoes harvest
- Tons per hectare (1000kg / 1000km2)
 - Grains output per field
 - Vegetables output per field
 - Fruits output per field
 - Potatoes output per field

Dependent variables are in logs.

3.2 Regressions

3.2.1 Equation

All our regressions resemble the following equations, where Y_{dt} represents the chosen outcome variable for district d at time t , λ_d represents the district-specific fixed effect, γ_t represents the time-specific fixed effect, X_{dt} is the chosen explanatory variable, β is the effect of said variable on the outcome, and ϵ_{dt} is the error.

$$Y_{dt} = \alpha + \lambda_d + \gamma_t + \beta X_{dt} + \epsilon_{dt}$$

$$Y_{dt} = \alpha + \lambda_d + \gamma_t + \beta_1 X_{dt} + \beta_2 X_{d,t-1} + \epsilon_{dt}$$

$$Y_{dt} = \alpha + \lambda_d + \gamma_t + \beta_1 X_{dt} + \beta_2 X_{d,t-1} + \beta_3 X_{d,t-2} + \epsilon_{dt}$$

3.3 Dependent Variable: income

3.3.1 Regressed on: SPEI

| Dependent Variable: Model: | Household Income | | |
|------------------------------------------------------------|--------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.0260 (0.0266) | 0.0263 (0.0252) | 0.0254 (0.0264) |
| SPEI (Lag 1) | | -0.0201 (0.0505) | -0.0199 (0.0496) |
| SPEI (Lag 2) | | | -0.0174 (0.0522) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.95771 | 0.95775 | 0.95778 |
| Within R ² | 0.00175 | 0.00273 | 0.00344 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.3.2 Regressed on: Share

| Dependent Variable: Model: | Household Income | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.1165 (0.0908) | -0.1618 (0.1105) | -0.1685 (0.1155) |
| Agric. Share (Lag 1) | | -0.2229 (0.1517) | -0.2596 (0.1846) |
| Agric. Share (Lag 2) | | | -0.2104 (0.1685) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.95781 | 0.95839 | 0.95888 |
| Within R ² | 0.00413 | 0.01776 | 0.02941 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.3.3 Regressed on: AgricStress

| Dependent Variable: | Household Income | | |
|------------------------------------------------------------|-----------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.0047 (0.0666) | -0.0222 (0.0622) | -0.0228 (0.0612) |
| Agric. Stress (Lag 1) | | 0.0717 (0.0819) | 0.0743 (0.0736) |
| Agric. Stress (Lag 2) | | | -0.0202 (0.1024) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.95764 | 0.95776 | 0.95777 |
| Within R ² | 1.42×10^{-5} | 0.00285 | 0.00300 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.3.4 Regressed on: Temperature

| Dependent Variable: | Household Income | | |
|------------------------------------------------------------|--------------------|--------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.0971 (0.0676) | 0.0944 (0.0684) | 0.0955 (0.0698) |
| Temp. (Lag 1) | | 0.0133 (0.0326) | -0.0002 (0.0205) |
| Temp. (Lag 2) | | | 0.0150 (0.0230) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.95785 | 0.95791 | 0.95798 |
| Within R ² | 0.00499 | 0.00633 | 0.00809 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.4 Dependent Variable: agric_income

3.4.1 Regressed on: SPEI

| Dependent Variable: | Household Agricultural Income | | |
|------------------------------------------------------------|-------------------------------|--------------------|--------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.2773 (0.2633) | 0.2786 (0.2720) | 0.2814 (0.2893) |
| SPEI (Lag 1) | | 0.0586 (0.2790) | 0.0572 (0.2737) |
| SPEI (Lag 2) | | | 0.0400 (0.2727) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 197 | 197 | 197 |
| R ² | 0.71669 | 0.71680 | 0.71685 |
| Within R ² | 0.00952 | 0.00992 | 0.01009 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.4.2 Regressed on: Share

| Dependent Variable: | Household Agricultural Income | | |
|------------------------------------------------------------|-------------------------------|---------------------|----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.3389 (0.4318) | -0.3282 (0.4687) | -0.3893 (0.4920) |
| Agric. Share (Lag 1) | | 0.0552 (0.7967) | -0.1080 (0.8750) |
| Agric. Share (Lag 2) | | | -0.8570* (0.4538) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 197 | 197 | 197 |
| R ² | 0.71444 | 0.71445 | 0.71667 |
| Within R ² | 0.00166 | 0.00170 | 0.00946 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.4.3 Regressed on: AgricStress

| Dependent Variable: | Household Agricultural Income | | |
|------------------------------------------------------------|-------------------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.1955 (0.5152) | -0.2022 (0.5525) | -0.1393 (0.6256) |
| Agric. Stress (Lag 1) | | 1.055 (0.9886) | 1.193 (0.9930) |
| Agric. Stress (Lag 2) | | | -1.510 (0.8763) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 197 | 197 | 197 |
| R ² | 0.71419 | 0.71963 | 0.72936 |
| Within R ² | 0.00080 | 0.01981 | 0.05383 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.4.4 Regressed on: Temperature

| Dependent Variable: | Household Agricultural Income | | |
|------------------------------------------------------------|-------------------------------|---------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.1293 (0.2379) | 0.1306 (0.2456) | 0.1360 (0.2339) |
| Temp. (Lag 1) | | -0.0064 (0.0712) | 0.1104* (0.0564) |
| Temp. (Lag 2) | | | -0.1301** (0.0544) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 197 | 197 | 197 |
| R ² | 0.71409 | 0.71410 | 0.71610 |
| Within R ² | 0.00045 | 0.00047 | 0.00748 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.5 Dependent Variable: agric_output

3.5.1 Regressed on: SPEI

| Dependent Variable: Model: | Gross Agricultural Output | | |
|------------------------------------------------------------|---------------------------|--------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.0578 (0.0556) | 0.0597 (0.0519) | 0.0666 (0.0544) |
| SPEI (Lag 1) | | 0.0986 (0.0580) | 0.0994* (0.0545) |
| SPEI (Lag 2) | | | 0.1435* (0.0744) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97508 | 0.97550 | 0.97640 |
| Within R ² | 0.00561 | 0.02268 | 0.05855 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.5.2 Regressed on: Share

| Dependent Variable: Model: | Gross Agricultural Output | | |
|------------------------------------------------------------|---------------------------|--------------------|--------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | 0.1182 (0.1120) | 0.1643 (0.1325) | 0.1763 (0.1352) |
| Agric. Share (Lag 1) | | 0.2021 (0.1329) | 0.2415 (0.1372) |
| Agric. Share (Lag 2) | | | 0.1923 (0.1527) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97502 | 0.97522 | 0.97540 |
| Within R ² | 0.00316 | 0.01144 | 0.01864 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.5.3 Regressed on: AgricStress

| Dependent Variable: | Gross Agricultural Output | | |
|------------------------------------------------------------|---------------------------|--------------------|--------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | 0.3104 (0.1892) | 0.2930 (0.1719) | 0.2932 (0.1746) |
| Agric. Stress (Lag 1) | | 0.2321 (0.1415) | 0.2317 (0.1351) |
| Agric. Stress (Lag 2) | | | 0.0070 (0.1898) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97572 | 0.97617 | 0.97617 |
| Within R ² | 0.03148 | 0.04908 | 0.04909 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.5.4 Regressed on: Temperature

| Dependent Variable: | Gross Agricultural Output | | |
|------------------------------------------------------------|---------------------------|---------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.0568 (0.0720) | 0.0550 (0.0775) | 0.1154* (0.0588) |
| Temp. (Lag 1) | | -0.0235 (0.1200) | 0.0049 (0.1205) |
| Temp. (Lag 2) | | | 0.2403*** (0.0733) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97497 | 0.97497 | 0.97548 |
| Within R ² | 0.00120 | 0.00140 | 0.02182 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.6 Dependent Variable: fdcons

3.6.1 Regressed on: SPEI

| Dependent Variable: Model: | Household food Consumption | | |
|------------------------------------------------------------|----------------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.0400 (0.0943) | 0.0407 (0.0950) | 0.0393 (0.0952) |
| SPEI (Lag 1) | | -0.0648 (0.0517) | -0.0645 (0.0522) |
| SPEI (Lag 2) | | | -0.0296 (0.1102) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.90580 | 0.90611 | 0.90617 |
| Within R ² | 0.00133 | 0.00465 | 0.00531 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.6.2 Regressed on: Share

| Dependent Variable: Model: | Household food Consumption | | |
|------------------------------------------------------------|----------------------------|---------------------|----------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.0860 (0.1944) | -0.1811 (0.2304) | -0.1932 (0.2334) |
| Agric. Share (Lag 1) | | -0.4673 (0.2695) | -0.5340* (0.2667) |
| Agric. Share (Lag 2) | | | -0.3819 (0.3588) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.90574 | 0.90757 | 0.90875 |
| Within R ² | 0.00073 | 0.02016 | 0.03261 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.6.3 Regressed on: AgricStress

| Dependent Variable: | Household food Consumption | | |
|------------------------------------------------------------|----------------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.0214 (0.2026) | 0.0082 (0.1772) | 0.0074 (0.1811) |
| Agric. Stress (Lag 1) | | -0.1217 (0.1475) | -0.1182 (0.1280) |
| Agric. Stress (Lag 2) | | | -0.0270 (0.1968) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.90568 | 0.90593 | 0.90594 |
| Within R ² | 9.36×10^{-5} | 0.00274 | 0.00283 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.6.4 Regressed on: Temperature

| Dependent Variable: | Household food Consumption | | |
|------------------------------------------------------------|----------------------------|---------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.0666 (0.2338) | 0.0762 (0.2367) | 0.0787 (0.2407) |
| Temp. (Lag 1) | | -0.0469 (0.0307) | -0.0776** (0.0302) |
| Temp. (Lag 2) | | | 0.0341 (0.0259) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (20) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 220 | 220 | 220 |
| R ² | 0.90574 | 0.90626 | 0.90654 |
| Within R ² | 0.00076 | 0.00621 | 0.00917 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.7 Dependent Variable: grains_harvest

3.7.1 Regressed on: SPEI

| Dependent Variable: | Grains Harvest | | |
|------------------------------------------------------------|------------------------|------------------------|------------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | -0.4503*** (0.1064) | -0.4573*** (0.1065) | -0.4691*** (0.1071) |
| SPEI (Lag 1) | | -0.2992** (0.1010) | -0.3025** (0.1207) |
| SPEI (Lag 2) | | | -0.2425* (0.1214) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.94570 | 0.94719 | 0.94817 |
| Within R ² | 0.05653 | 0.08245 | 0.09939 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.7.2 Regressed on: Share

| Dependent Variable: | Grains Harvest | | |
|------------------------------------------------------------|-----------------------|------------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.7772** (0.2690) | -0.9705*** (0.2807) | -1.008*** (0.2698) |
| Agric. Share (Lag 1) | | -0.8358** (0.3403) | -1.012** (0.3457) |
| Agric. Share (Lag 2) | | | -0.9098** (0.4027) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.94375 | 0.94509 | 0.94660 |
| Within R ² | 0.02257 | 0.04590 | 0.07212 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.7.3 Regressed on: AgricStress

| Dependent Variable: | Grains Harvest | | |
|------------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -1.178*** (0.3036) | -1.127*** (0.2822) | -1.148*** (0.2822) |
| Agric. Stress (Lag 1) | | -0.8049* (0.4269) | -0.7895* (0.4338) |
| Agric. Stress (Lag 2) | | | -0.5241 (0.4429) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.94656 | 0.94848 | 0.94914 |
| Within R ² | 0.07144 | 0.10475 | 0.11627 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.7.4 Regressed on: Temperature

| Dependent Variable: | Grains Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | -0.1116 (0.2034) | -0.1260 (0.2061) | -0.2292 (0.2332) |
| Temp. (Lag 1) | | -0.1923 (0.3123) | -0.2413 (0.3223) |
| Temp. (Lag 2) | | | -0.4141 (0.2432) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.94249 | 0.94262 | 0.94320 |
| Within R ² | 0.00077 | 0.00298 | 0.01312 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.8 Dependent Variable: vegetables_harvest

3.8.1 Regressed on: SPEI

| Dependent Variable: Model: | Vegetables Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | -0.1150 (0.0697) | -0.1191 (0.0697) | -0.1240 (0.0725) |
| SPEI (Lag 1) | | -0.2078 (0.1572) | -0.2084 (0.1617) |
| SPEI (Lag 2) | | | -0.1035 (0.0929) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.95674 | 0.95738 | 0.95753 |
| Within R ² | 0.00428 | 0.01891 | 0.02251 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.8.2 Regressed on: Share

| Dependent Variable: Model: | Vegetables Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.1733 (0.1950) | -0.2713 (0.1901) | -0.2927 (0.1953) |
| Agric. Share (Lag 1) | | -0.4297 (0.3137) | -0.5002 (0.3758) |
| Agric. Share (Lag 2) | | | -0.3438 (0.2918) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.95661 | 0.95693 | 0.95712 |
| Within R ² | 0.00131 | 0.00854 | 0.01298 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.8.3 Regressed on: AgricStress

| Dependent Variable: | Vegetables Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.4713 (0.4783) | -0.4391 (0.4584) | -0.4430 (0.4604) |
| Agric. Stress (Lag 1) | | -0.4302 (0.5232) | -0.4229 (0.5081) |
| Agric. Stress (Lag 2) | | | -0.1363 (0.3874) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.95716 | 0.95767 | 0.95771 |
| Within R ² | 0.01401 | 0.02568 | 0.02661 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.8.4 Regressed on: Temperature

| Dependent Variable: | Vegetables Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | -0.1386 (0.1596) | -0.1443 (0.1766) | -0.1537 (0.2011) |
| Temp. (Lag 1) | | -0.0755 (0.2847) | -0.0799 (0.3077) |
| Temp. (Lag 2) | | | -0.0372 (0.2512) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.95662 | 0.95663 | 0.95664 |
| Within R ² | 0.00138 | 0.00178 | 0.00187 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.9 Dependent Variable: fruits_harvest

3.9.1 Regressed on: SPEI

| Dependent Variable: | Fruits Harvest | | |
|------------------------------------------------------------|--------------------|--------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.2105 (0.1612) | 0.2145 (0.1631) | 0.2239 (0.1622) |
| SPEI (Lag 1) | | 0.2010 (0.1169) | 0.2022* (0.1042) |
| SPEI (Lag 2) | | | 0.1975 (0.1402) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.91392 | 0.91480 | 0.91565 |
| Within R ² | 0.01062 | 0.02073 | 0.03042 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.9.2 Regressed on: Share

| Dependent Variable: | Fruits Harvest | | |
|------------------------------------------------------------|--------------------|----------------------|----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | 0.6161 (0.3458) | 0.8515** (0.2807) | 0.8986** (0.2913) |
| Agric. Share (Lag 1) | | 1.033** (0.3621) | 1.188** (0.4138) |
| Agric. Share (Lag 2) | | | 0.7552* (0.4113) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.91406 | 0.91675 | 0.91813 |
| Within R ² | 0.01223 | 0.04308 | 0.05892 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.9.3 Regressed on: AgricStress

| Dependent Variable: Model: | Fruits Harvest | | |
|------------------------------------------------------------|----------------------|-----------------------|----------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | 0.6220** (0.2250) | 0.5760*** (0.1782) | 0.5885** (0.1992) |
| Agric. Stress (Lag 1) | | 0.6142* (0.3383) | 0.5907* (0.3034) |
| Agric. Stress (Lag 2) | | | 0.4338 (0.3242) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.91457 | 0.91610 | 0.91670 |
| Within R ² | 0.01802 | 0.03561 | 0.04253 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.9.4 Regressed on: Temperature

| Dependent Variable: Model: | Fruits Harvest | | |
|------------------------------------------------------------|--------------------|--------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.1117 (0.3286) | 0.1123 (0.3298) | 0.1934 (0.3155) |
| Temp. (Lag 1) | | 0.0076 (0.1958) | 0.0458 (0.2025) |
| Temp. (Lag 2) | | | 0.3225* (0.1467) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.91306 | 0.91306 | 0.91352 |
| Within R ² | 0.00066 | 0.00067 | 0.00591 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.10 Dependent Variable: potatoes_harvest

3.10.1 Regressed on: SPEI

| Dependent Variable: Model: | Potatoes Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | -0.0864 (0.0585) | -0.0913 (0.0683) | -0.0931 (0.0699) |
| SPEI (Lag 1) | | -0.2477 (0.1406) | -0.2479 (0.1438) |
| SPEI (Lag 2) | | | -0.0391 (0.0848) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97357 | 0.97447 | 0.97449 |
| Within R ² | 0.00395 | 0.03787 | 0.03871 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.10.2 Regressed on: Share

| Dependent Variable: Model: | Potatoes Harvest | | |
|------------------------------------------------------------|---------------------|-----------------------|-----------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.3500 (0.2041) | -0.5348* (0.2540) | -0.5406* (0.2604) |
| Agric. Share (Lag 1) | | -0.8109** (0.3189) | -0.8300** (0.3329) |
| Agric. Share (Lag 2) | | | -0.0928 (0.2677) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97369 | 0.97481 | 0.97482 |
| Within R ² | 0.00872 | 0.05073 | 0.05126 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.10.3 Regressed on: AgricStress

| Dependent Variable: | Potatoes Harvest | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.0492 (0.2602) | -0.0179 (0.2506) | -0.0237 (0.2470) |
| Agric. Stress (Lag 1) | | -0.4188 (0.3375) | -0.4078 (0.3346) |
| Agric. Stress (Lag 2) | | | -0.2020 (0.1600) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97347 | 0.97395 | 0.97403 |
| Within R ² | 0.00025 | 0.01831 | 0.02162 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.10.4 Regressed on: Temperature

| Dependent Variable: | Potatoes Harvest | | |
|------------------------------------------------------------|-----------------------|--------------------|--------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.0188 (0.1026) | 0.0361 (0.1132) | 0.1030 (0.1501) |
| Temp. (Lag 1) | | 0.2291 (0.1470) | 0.2607 (0.1665) |
| Temp. (Lag 2) | | | 0.2664 (0.1743) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.97346 | 0.97362 | 0.97383 |
| Within R ² | 4.14×10^{-5} | 0.00597 | 0.01387 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.11 Dependent Variable: output_per_field_grains

3.11.1 Regressed on: SPEI

| Dependent Variable: | Grains Yield | | |
|------------------------------------------------------------|------------------------|------------------------|------------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | -0.2324*** (0.0584) | -0.2349*** (0.0563) | -0.2379*** (0.0524) |
| SPEI (Lag 1) | | -0.1082 (0.0719) | -0.1090 (0.0768) |
| SPEI (Lag 2) | | | -0.0598 (0.0758) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.78380 | 0.78558 | 0.78612 |
| Within R ² | 0.03533 | 0.04328 | 0.04569 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.11.2 Regressed on: Share

| Dependent Variable: | Grains Yield | | |
|------------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.4843** (0.2120) | -0.4983** (0.2098) | -0.5060** (0.2134) |
| Agric. Share (Lag 1) | | -0.0607 (0.2006) | -0.0972 (0.1848) |
| Agric. Share (Lag 2) | | | -0.1884 (0.2824) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.78048 | 0.78055 | 0.78114 |
| Within R ² | 0.02055 | 0.02084 | 0.02348 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.11.3 Regressed on: AgricStress

| Dependent Variable: | Grains Yield | | |
|------------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.7051** (0.2239) | -0.7082** (0.2265) | -0.7031** (0.2256) |
| Agric. Stress (Lag 1) | | 0.0484 (0.2655) | 0.0446 (0.2562) |
| Agric. Stress (Lag 2) | | | 0.1299 (0.2151) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.78933 | 0.78940 | 0.78977 |
| Within R ² | 0.06004 | 0.06032 | 0.06198 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.11.4 Regressed on: Temperature

| Dependent Variable: | Grains Yield | | |
|------------------------------------------------------------|--------------------|---------------------|----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.0868 (0.1574) | 0.0847 (0.1513) | -0.0005 (0.1551) |
| Temp. (Lag 1) | | -0.0277 (0.2003) | -0.0682 (0.2072) |
| Temp. (Lag 2) | | | -0.3419* (0.1569) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 191 | 191 | 191 |
| R ² | 0.77612 | 0.77615 | 0.77978 |
| Within R ² | 0.00110 | 0.00121 | 0.01743 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.12 Dependent Variable: output_per_field_vegetables

3.12.1 Regressed on: SPEI

| Dependent Variable: Model: | Vegetables Yield | | |
|------------------------------------------------------------|--------------------|---------------------|---------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.0175 (0.0438) | 0.0145 (0.0492) | 0.0092 (0.0508) |
| SPEI (Lag 1) | | -0.1505 (0.1425) | -0.1512 (0.1481) |
| SPEI (Lag 2) | | | -0.1108 (0.1046) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.81793 | 0.82015 | 0.82134 |
| Within R ² | 0.00016 | 0.01235 | 0.01890 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.12.2 Regressed on: Share

| Dependent Variable: Model: | Vegetables Yield | | |
|------------------------------------------------------------|--------------------|---------------------|------------------------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | 0.0835 (0.1599) | 0.0650 (0.1552) | 0.0650 (0.1582) |
| Agric. Share (Lag 1) | | -0.0810 (0.1714) | -0.0810 (0.2072) |
| Agric. Share (Lag 2) | | | -5.39×10^{-5} (0.2109) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.81799 | 0.81806 | 0.81806 |
| Within R ² | 0.00048 | 0.00089 | 0.00089 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.12.3 Regressed on: AgricStress

| Dependent Variable: | Vegetables Yield | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.3306 (0.3666) | -0.3029 (0.3502) | -0.3043 (0.3528) |
| Agric. Stress (Lag 1) | | -0.3705 (0.4208) | -0.3679 (0.4132) |
| Agric. Stress (Lag 2) | | | -0.0483 (0.2269) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.81989 | 0.82240 | 0.82243 |
| Within R ² | 0.01094 | 0.02469 | 0.02487 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.12.4 Regressed on: Temperature

| Dependent Variable: | Vegetables Yield | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | -0.0371 (0.1581) | -0.0314 (0.1647) | -0.0282 (0.1701) |
| Temp. (Lag 1) | | 0.0757 (0.1271) | 0.0772 (0.1386) |
| Temp. (Lag 2) | | | 0.0129 (0.1257) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.81793 | 0.81804 | 0.81805 |
| Within R ² | 0.00016 | 0.00079 | 0.00080 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.13 Dependent Variable: output_per_field_fruits

3.13.1 Regressed on: SPEI

| Dependent Variable: Model: | Fruits Yield | | |
|------------------------------------------------------------|--------------------|--------------------|--------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | 0.1856 (0.1434) | 0.1887 (0.1457) | 0.1952 (0.1438) |
| SPEI (Lag 1) | | 0.1567 (0.1054) | 0.1575 (0.0973) |
| SPEI (Lag 2) | | | 0.1367 (0.1568) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.79919 | 0.80052 | 0.80152 |
| Within R ² | 0.00881 | 0.01538 | 0.02034 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.13.2 Regressed on: Share

| Dependent Variable: Model: | Fruits Yield | | |
|------------------------------------------------------------|--------------------|----------------------|----------------------|
| | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | 0.5624 (0.3438) | 0.7888** (0.2894) | 0.8309** (0.3019) |
| Agric. Share (Lag 1) | | 0.9934** (0.3737) | 1.132** (0.4357) |
| Agric. Share (Lag 2) | | | 0.6764 (0.4382) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.79960 | 0.80578 | 0.80853 |
| Within R ² | 0.01088 | 0.04136 | 0.05493 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.13.3 Regressed on: AgricStress

| Dependent Variable: | Fruits Yield | | |
|------------------------------------------------------------|-----------------------|-----------------------|-----------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | 0.5254*** (0.1508) | 0.4862*** (0.1244) | 0.4959*** (0.1335) |
| Agric. Stress (Lag 1) | | 0.5233* (0.2771) | 0.5052* (0.2487) |
| Agric. Stress (Lag 2) | | | 0.3352 (0.2826) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.80018 | 0.80294 | 0.80384 |
| Within R ² | 0.01374 | 0.02737 | 0.03178 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.13.4 Regressed on: Temperature

| Dependent Variable: | Fruits Yield | | |
|------------------------------------------------------------|--------------------|---------------------|--------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | 0.1055 (0.2922) | 0.1050 (0.2914) | 0.1634 (0.2703) |
| Temp. (Lag 1) | | -0.0068 (0.1793) | 0.0207 (0.1890) |
| Temp. (Lag 2) | | | 0.2323 (0.1724) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.79753 | 0.79753 | 0.79812 |
| Within R ² | 0.00063 | 0.00063 | 0.00354 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.14 Dependent Variable: output_per_field_potatoes

3.14.1 Regressed on: SPEI

| Dependent Variable: | Potatoes Yield | | |
|------------------------------------------------------------|----------------|----------|----------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| SPEI | -0.0961* | -0.1006 | -0.1018 |
| | (0.0434) | (0.0607) | (0.0622) |
| SPEI (Lag 1) | | -0.2282 | -0.2283 |
| | | (0.1451) | (0.1473) |
| SPEI (Lag 2) | | | -0.0243 |
| | | | (0.0680) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.80594 | 0.81511 | 0.81521 |
| Within R ² | 0.00795 | 0.05479 | 0.05532 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.14.2 Regressed on: Share

| Dependent Variable: | Potatoes Yield | | |
|------------------------------------------------------------|----------------|----------|----------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Share | -0.1459 | -0.2399 | -0.2216 |
| | (0.1639) | (0.1776) | (0.1901) |
| Agric. Share (Lag 1) | | -0.4124* | -0.3520* |
| | | (0.2125) | (0.1922) |
| Agric. Share (Lag 2) | | | 0.2948 |
| | | | (0.2023) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.80487 | 0.80833 | 0.81003 |
| Within R ² | 0.00247 | 0.02015 | 0.02882 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.14.3 Regressed on: AgricStress

| Dependent Variable: | Potatoes Yield | | |
|------------------------------------------------------------|---------------------|---------------------|---------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Agric. Stress | -0.2087 (0.1711) | -0.1706 (0.1614) | -0.1728 (0.1598) |
| Agric. Stress (Lag 1) | | -0.5089 (0.3339) | -0.5048 (0.3311) |
| Agric. Stress (Lag 2) | | | -0.0758 (0.1075) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.80581 | 0.81430 | 0.81445 |
| Within R ² | 0.00730 | 0.05069 | 0.05145 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |

3.14.4 Regressed on: Temperature

| Dependent Variable: | Potatoes Yield | | |
|------------------------------------------------------------|-----------------------|--------------------|--------------------|
| Model: | (1) | (2) | (3) |
| <i>Variables</i> | | | |
| Temp. | -0.0084 (0.0602) | 0.0049 (0.0696) | 0.0456 (0.0968) |
| Temp. (Lag 1) | | 0.1761 (0.1118) | 0.1953 (0.1248) |
| Temp. (Lag 2) | | | 0.1621 (0.1202) |
| <i>Fixed-effects</i> | | | |
| District (11) | Yes | Yes | Yes |
| Year (18) | Yes | Yes | Yes |
| <i>Fit statistics</i> | | | |
| Observations | 194 | 194 | 194 |
| R ² | 0.80439 | 0.80550 | 0.80644 |
| Within R ² | 1.36×10^{-5} | 0.00571 | 0.01047 |
| <i>Clustered (District) standard-errors in parentheses</i> | | | |
| <i>Signif. Codes: ***: 0.01, **: 0.05, *: 0.1</i> | | | |