Sample Report

Your Name

2025-07-20

1 Introduction

Some text.

1.1 Reg Discontinuity

$$Y_i = \alpha + \beta_1 \text{Project}_i + \beta_2 \text{DistanceBoundary}_i + \beta_3 Y_{i,t-1} + \sum_{k=1}^{8} \gamma_k C_{ik} + \epsilon_i$$

- $\mathbf{Y_{i,t}}$ is the outcome at endline for farmer i (e.g., drip use, land size, income),
- $\mathbf{Y_{i,t-1}}$ is the *pre-treatment* (baseline) value of the *same* outcome for farmer i,
- $\mathbf{Project}_i = 1$ if farmer i lies inside the project area (0 otherwise),
- $\mathbf{DistanceBoundary}_i$: is the distance in meters from the project boundary;
- $\mathbf{C_{ik}}$ ($\mathbf{k = 1, \ldots, 8}$) are control variables (e.g., farmer age, gender, education, household size, total landholding, caste, baseline income, market distance);
- α is the intercept, $\beta_\mathbf{j}$ are coefficients of interest, $\gamma_\mathbf{k}$ capture control effects, and $\epsilon_\mathbf{i}$ is an error term.

Control Variables:

- **Age:** Continuous variable.
- **Gender:** Binary variable, 1 for male.

- **Education:** Continuous variable representing years of education [1 = elementary to 6 = high edu].
- **Land holding:** Continuous variable for total agricultural acre of land owned.

- **House type:** Continuous variable. 1 = pucca, 2 = semi pucca, 3 = kutcha.
- **Jobs other than agriculture:** Continuous variable for total external sources [1–4 sources][1]
- **Government pension or scheme:** Binary variable.
- **Rent/lease of property or land:** Binary variable.

- **Livestock:** Continuous variable for total livestock owned[2]

- **Farm equipments:** Continuous variable for total equipments owned[3]

[1] Own non-agricultural business/ Salaried job/ Casual work or daily labor by current household members/ Other jobs or activities

[2] # Cows # Bullock # Buffaloes # Goats and sheep

[3] # Tractor # Plough # Thresher # Seed drill

We estimate an OLS model of the endline outcome $\mathbf{Y_{i,t}}$ on three core regressors plus eight controls. Coefficient $\beta_\mathbf{1}$captures the average difference in Y for farmers inside versus outside the project area; $\beta_\mathbf{2}$ measures how Y varies with each additional meter from the project boundary. Importantly, $\beta_\mathbf{3}$ is on the lagged outcome $\mathbf{Y_{i,t-1}}$, which controls for any baseline level of the same variable (drip use, land size, income, caste group, etc.), thereby isolating the incremental change. Controls $\mathbf{C_{ik}}$ include farmer demographics (age, gender, education), household and farm attributes (household size, total landholding, baseline income).

Term 1 Definition 1
Term 2 Definition 2

1.2 SUB Subsection

$Y_i = \alpha + \beta_1 X_i + \epsilon_i$

2 Section

2.1 Subsection

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$$a = b + cd = e + f$$

Karnataka's largest tech-induced irrigation project in muddy waters?