

Appendix

Table A1: Estimates for factors influencing access to Irrigation

	Logit Model	
	Full Sample (1)	Primary Cultivators (2)
HH size	0.084*** (0.01)	0.06*** (0.011)
Rainfall	-0.0001* (0.0004)	-0.0002 (0.00005)
HH belongs to Scheduled Caste/Tribe	-0.157** (0.049)	-0.154** (0.068)
Head has primary education or beyond	0.063 (0.056)	-0.003 (0.075)
HH owns area (in acres)	0.0006** (0.0003)	0.0005 (0.0003)
HH's cattle own	0.30*** (0.023)	0.26*** (0.029)
Cube of cattle owned	-0.0008*** (0.0002)	-0.0008*** (0.0002)
HH owns pucca house	0.102** (0.047)	0.125* (0.06)
HH has access to credit	0.559*** (0.073)	0.475*** (0.09)
HH owns Motor Vehicle	0.375*** (0.057)	0.627*** (0.078)
HH owns Television	0.012 (0.057)	0.09 (0.07)
HH owns cellphone	0.323*** (0.062)	0.333*** (0.08)
Head is member of agriculture/milk cooperative	0.391*** (0.096)	0.316** (0.116)
Head is member of panchayat (local governing institution)	0.04 (0.09)	-0.08 (0.11)
Electricity received by HH (in hours)	0.008** (0.004)	-0.003 (0.004)
Distance of HH's village from nearest town	-0.011*** (0.002)	-0.017*** (0.003)
HH has non-farm income generating activity	-0.205** (0.065)	-0.061 (0.096)
HH's village has water body	0.905*** (0.05)	0.917*** (0.062)
Groundwater Development in HH's district (in %)	0.34*** (0.08)	0.30** (0.11)
Percentage Canal Irrigated Area in HH's district (in %)	0.44** (0.21)	0.008 (0.02)
Observations	12,418	7,490
State Fixed Effects	Yes	Yes
Clustered SE at Village level	Yes	Yes
Log-Likelihood	-6348	-3602
AIC	12775	7285
BIC	13972	7562

Note: Robust standard errors are in parentheses. ***, **, and * denote statistical significance at 0.01, 0.05, and 0.1 levels.

Table A2: Covariate Balance Before and After Kernel Matching- Primary Cultivator

	SMD (Before Matching)	SMD (After Matching)
HH size	0.35	0.01
HH belongs to Scheduled Caste/Tribe	-0.22	0.03
Head has primary education or beyond	0.15	0.001
HH has non-farm income generating activity	0.06	-0.05
HH's land owned	-0.14	-0.03
HH's cattle owned	0.49	0.09
HH owns pucca house	0.40	0.04
HH has access to credit	0.37	0.01
HH owns Motor Vehicle	0.45	0.08
HH owns Television	0.14	0.01
HH owns cellphone	0.31	0.02
Head is member of agriculture/milk cooperative	0.15	-0.02
Head is member of <i>panchayat</i> (local governing institution)	0.03	0.01
HH receives hours of electricity	-0.16	-0.04
Distance of HH's village from nearest town	-0.26	-0.06
HH's village has water body	0.23	-0.14
Rainfall in HH's district	-0.33	0.01
Groundwater Development in HH's district	0.03	0.002
Canal Irrigated Area in District HH's district	0.12	0.03

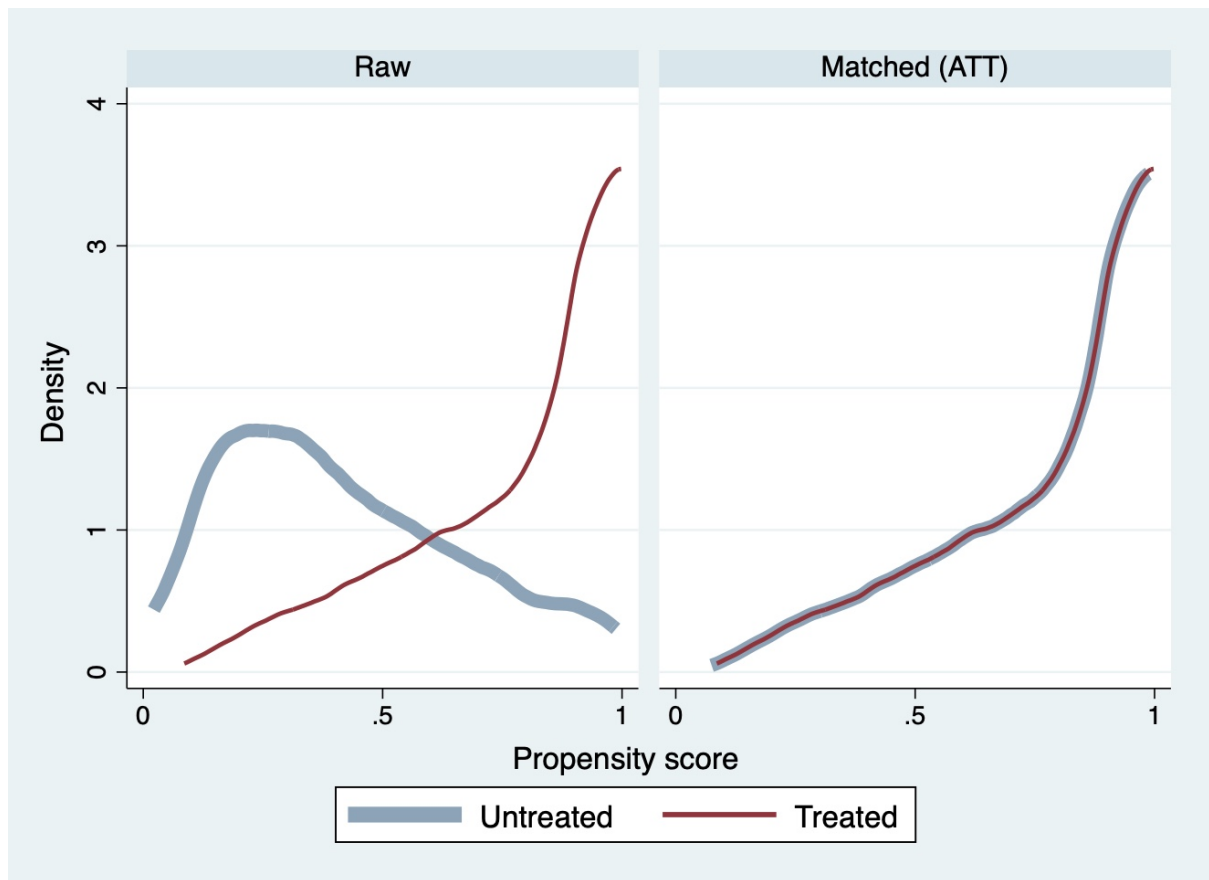


Figure A1: Density Plots before matching (left) and after (right) Kernel matching- Primary Cultivator

Note: Untreated in the legend denotes households without irrigation, and Treated denotes households with irrigation.

Table A3: ATT of Irrigation on Consumption of Different Food Items- Primary Cultivator

	Quantity Consumed (kg/month)	Value Consumed (INR/month)
<i>Wheat</i>	+4.87*** (0.76)	+64.74*** (12.94)
<i>Milk</i>	+7.01*** (2.65)	+98.87* (59.08)
<i>Sugar</i>	+0.84*** (0.20)	+28.73*** (7.56)
<i>Oil</i>	+0.18 (0.14)	+4.97 (11.1)
<i>Legumes</i>	+0.20 (0.16)	+3.03 (8.23)
<i>Coarse Cereals</i>	-0.68** (0.33)	-3.9 (4.11)
<i>Rice</i>	0.07 (0.84)	0.35 (0.37)
<i>Meat</i>	+0.07 (0.06)	-3.17 (14.33)
<i>Egg</i>	0.69* (0.36)	-0.46 (2.67)
<i>Vegetables</i>	-	+50.38*** (15.94)
<i>Fruits</i>	-	+3.01 (20.07)
Observations	7,490	7,490
State Dummies	Yes	Yes

Note: PSM coefficients using KM with state-level fixed effects are reported. Bootstrapped standard errors with 100 replications are reported in parentheses. For KM, the Epanechnikov kernel is used with a bandwidth selected using cross-validation. ***, **, and * denote statistical significance at 0.01, 0.05, and 0.1 levels.

