Appendix to:
Adaptation to Climate Change

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Table A1. Studies of adaptation interventions and their definitions of weather anomaly used in Figure 1

Reference	Variable	Climate baseline period	Length of climate baseline (years)	Shock type	Percentile used as shock cutoff	Uses fixed effects
Adhvaryu et al. (2024)	Precipitation	Varies by birth year	10	Positive	84 (1σ)	Yes
Asfaw et al. (2017)	Precipitation	1983-2010	27	Positive	97.5 (2σ)	No
Björkman Nyqvist et al. (2023)	Precipitation	1983-2013	20	Continuous		No
Christian et al. (2019)	Precipitation	1979-2016	37	Continuous		Yes
Christian et al. (2019)	Precipitation	1951-2013	62	Continuous		Yes
Corno and Voena (2023)	Precipitation	1981-2010	29	Continuous		Yes
Deryugina (2013)	Temperature	1949-2000	51	Negative	5, 10, 25	Yes
				Positive	75, 90, 95	
Hirvonen et al. (2023)	Precipitation	1990-2020	30	Continuous		Yes
Jayachandran (2006)	Precipitation	1956-1987	31	Negative	20	Yes
				Positive	80	
Kazianga and Udry (2006)	Precipitation	1965-1985	20	Continuous		Yes
Lin et al. (2021)	Precipitation	1950-2014	64	Continuous		Yes
Mobarak and Rosenzweig (2014)	Precipitation	1999-2006	7	Continuous		Yes
Moore et al. (2019)	Temperature	1981-1990	10	Continuous		Yes
Paxson (1992)	Precipitation	1951-1985	34	Continuous		Yes
Ponnusamy (2022)	Precipitation	2000-2014	14	Negative	16 (-1σ)	Yes
				Positive	84 (1σ)	
Premand and Stoeffler (2022)	Precipitation	1970-2011	41	Negative	10, 11, ..., 35	No
Riley (2018)	Precipitation	Not stated	15	Positive	84 (1σ)	Yes
Rocha and Soares (2015)	Precipitation	1938-2008	70	Continuous		Yes
				Negative	16 (-1σ)	
Rosenzweig and Udry (2014)	Precipitation	1950-2010	60	Continuous		Yes
				Negative	49 (Realization-norm ratio is < 1)	
Schlenker and Taylor (2021)	Temperature	2001-2020	19	Continuous		Yes[1]

Notes: The table lists all studies represented in Figure 1 in the main text. Included studies are those that normalize weather variation with respect to a long-run climate norm when investigating the adoption or efficacy of specific adaptation technologies or strategies. Positive and negative shock definitions measured in standard deviations have been assigned percentile values using properties of the normal distribution, such that a positive shock threshold at 1 standard deviation (σ) above the mean is assumed to fall at the 84^{th} percentile. Note that Moore et al. (2019) include an analysis that compares the number of temperature anomalies identified using a shifting versus a fixed 30-year baseline, but we do not report it in Figure 1 or in this table as it is auxiliary from the authors' main analysis.

[1] In Schlenker and Taylor (2021), fixed effects are included in separate specification from that which uses weather anomalies.

Table A2. Studies of adaptation interventions used in Figure 3, their source of exogenous variation, and sector of focus

Reference	Variation type	Exogenous variation	Adaptation intervention	Sector
Adhvaryu et al. (2024)	Income	Transfer*	Conditional cash transfer program (PROGRESA/Oportunidades)	Cross-cutting
Adhvaryu et al. (2020)	Price	Ex post technology (p)	Roll-out of LED lighting in factories	Labor
Aker and Jack (2023)	Price	Ex ante technology (r)	Rainwater harvesting technique training (demi-lune)	Agriculture
Asfaw et al. (2017)	Income	Transfer^{+}	Unconditional cash transfer	Cross-cutting
Balana et al. (2023)	Income	Transfer*	Anticipatory cash transfer	Cross-cutting
Banerjee and Maharaj (2020)	Price	Ex post technology (p)	Community health care worker program;	Health
	Income	Transfer^{+}	Workfare program (NREGA)	
Baysan et al. (2019)	Income	Transfer*	Conditional cash transfer program (PROGRESA/Oportunidades)	Health
Beaman et al. (2021)	Price	Ex ante technology (r)	Agricultural technology training (pit planting)	Agriculture
Bhandari et al. (2022)	Decision environment	Market structure	Technology subsidies for groundwater extraction	Agriculture
Björkman Nyqvist et al. (2023)	Price	Ex ante technology (r)	Deployment of community health care workers	Health
Boucher et al. (2024)	Decision environment	Markets' frictions	Index insurance;	Agriculture
	Price	Ex ante technology (r)	Drought-tolerant seeds	
Brooks and Donovan (2020)	Decision environment	Market structure	New bridge construction	Agriculture
Burgess and Donaldson (2010)	Decision environment	Markets' frictions	Rural bank expansion program	Health
Burlig et al. (2024)	Decision environment	Information/beliefs	Provision of monsoon forecast;	Agriculture
	Decision environment	Markets' frictions	Index insurance	
Christian et al. (2019)	Income	Transfer*	Conditional cash transfer (Program Keluarga Harapan)	Health
Christian et al. (2019)	Income	Transfer*	Staggered roll-out of Odisha Rural Livelihoods Program	Cross-cutting
Cohen and Dechezleprêtre (2022)	Price	Ex post technology (p)	Health care expansion policy	Health
Cole et al. (2017)	Decision environment	Markets' frictions	Rainfall insurance provision	Agriculture
Collier et al. (2024)	Decision environment	Markets' frictions	Contingent loan offerings	Cross-cutting
Colmer and Doleac (2023)	Price	Ex post technology (p)	Gun control policies	Health
Dar et al. (2013)	Price	Ex ante technology (r)	Flood-tolerant rice variety	Agriculture
Downey et al. (2023)	Decision environment	Information/beliefs	Change in forecast quality	Labor
Emerick et al. (2016)	Price	Ex ante technology (r)	Flood-tolerant rice variety	Agriculture
Fetzer (2020)	Income	Transfer^{+}	Workfare program (NREGA)	Cross-cutting
Garg et al. (2020)	Income	Transfer^{+}	Workfare program (NREGA)	Cross-cutting
Garg et al. (2020)	Income	Transfer*	Conditional cash transfer program (PROGRESA/Oportunidades)	Cross-cutting
Gibson and Mullins (2020)	Decision environment	Information/beliefs	Biggert-Waters Flood Insurance Reform Act; Hurricane Sandy; Floodplain maps	Housing
Gunnsteinsson et al. (2022)	Price	Ex post technology (p)	Vitamin A supplement provision	Health
Hill et al. (2019)	Decision environment	Markets' frictions	Index insurance	Agriculture
Hino and Burke (2021)	Decision environment	Information/beliefs	Updated floodplain maps	Housing
Hirvonen et al. (2023)	Income	Transfer^{*+}	Ultra-poor graduation program (Productive Safety Net Program)	Cross-cutting
Hou (2010)	Income	Transfer*	Conditional cash transfer program (PROGRESA/Oportunidades)	Cross-cutting
Janzen and Carter (2019)	Decision environment	Markets' frictions	Index-based livelihood insurance pilot project	Cross-cutting
Jones et al. (2022)	Decision environment	Markets' frictions	Hillside irrigation canal construction	Agriculture
Knippenberg and Hoddinott (2019)	Income	Transfer^{*+}	Social protection program (Productive Safety Net Program)	Cross-cutting
Kochhar and Song (2023)	Decision environment	Market structure	Variation in state-level laws governing agricultural transactions	Agriculture
Lane (2024)	Decision environment	Markets' frictions	Contingent loan offerings	Agriculture
Lee (2023)	Decision environment	Information/beliefs	Homeseller Disclosure Requirement	Housing
Lemoine and Kapnick (2024)	Decision environment	Information/beliefs	Change in forecast quality	Cross-cutting
Macours et al. (2022)	Income	Transfer*	Conditional cash transfer with vocational training or a productive investment grant	Agriculture
Mobarak and Rosenzweig (2014)	Decision environment	Markets' frictions	Index insurance offering	Agriculture
Mogge et al. (2024)	Income	Transfer*	Anticipatory cash transfer	Cross-cutting
Molina and Rudik (2023)	Decision environment	Information/beliefs	Change in hurricane forecast quality	Cross-cutting
Mulder (2022)	Decision environment	Information/beliefs	Improved flood risk classification	Cross-cutting
Mullins and White (2020)	Price	Ex post technology (p)	Health care expansion through Community Health Centers	Health
Patel (2024)	Price	Ex ante technology (r)	Salinity-tolerant seeds	Agriculture
	Decision environment	Information/beliefs	Information on salinity levels	
Pople et al. (2021)	Income	Transfer*	Anticipatory cash transfer	Cross-cutting
Premand and Stoeffler (2022)	Income	Transfer*	Unconditional cash transfer	Cross-cutting
Riley (2018)	Decision environment	Markets' frictions	Roll-out of mobile money providers	Cross-cutting
Rosenzweig and Udry (2013)	Decision environment	Information/beliefs	Change in forecast quality	Agriculture
Shr and Zipp (2019)	Decision environment	Information/beliefs	Updated floodzone mapping	Housing
Shrader et al. (2023)	Decision environment	Information/beliefs	Change in forecast quality	Health
Song (2024)	Decision environment	Information/beliefs	Change in forecast quality	Labor
Stoeffler et al. (2022)	Decision environment	Markets' frictions	Index insurance	Agriculture
Weill (2023)	Decision environment	Information/beliefs	Updated flood maps after Hurricane Katrina	Housing

Notes: The table lists all studies represented in Figure 3 in the main text. In the "Exogenous variation" column, p indicates a price intervention targeting an ex post adaptation technology, while r indicates a price intervention targeting an ex ante adaptation technology, following the notation from Section 2 in the main text. Additionally, superscripts $+$ denote income interventions designed to affect the *mean* of income, while superscripts $*$ denote those designed to affect the *variance*. For example, income interventions designed to affect the mean include unconditional cash transfers and workfare programs made available to all households in a given region, while those that target only the most vulnerable households (e.g., the poorest or the most shock-exposed) are designed to reduce variance.