

Supplemental Information

Unpredictability of Intermittent Water Supply and Associations with Child Health in Urban India

Authors: Poonam Tajanpure^a, Ayse Ercumen^b, Emily Kumpel^{a*}

a – Department of Civil and Environmental Engineering, University of Massachusetts Amherst, Amherst, Massachusetts, USA

b - Department of Forestry and Environmental Resources, NC State University, Raleigh, North Carolina, USA

Table S1: Variables and survey questions capturing water supply experiences.

Variable name	Variable Description	Survey question or definition	Variable type
i24cwtimesusual	Time predictability	Does the water always come at the same hour?	Binary (yes/no/NA)
i25cwwait	Consistency of hours of delivery	How many hours do you usually wait for the water to come?	Decimal
i26cwunexpect	Day predictability	In the last month, how many times did the water not come on the day you expected?/ Last time the water came, did it come on the day you expected? ^a	Binary (yes/no/NA)
i27dayslate	Intensity/consistency of days unpredictability	How many days later did the water come?	Integer
diar7d	Child diarrhea prevalence	Caregiver reported 7-day prevalence of child diarrhea ^b	Binary (yes/no/NA)
Water Storage tank	Presence of overhead water tank	"Currently, do you store water in an overhead tank?"	Binary (yes/no/NA)
Median wealth	Household above and below median wealth	Derived from an asset score categorized into wealth quartiles ^c	Binary
Days between supply	Days between supply	This variable was created using questions: "Today is __day of the week< __. On what day did the water last come?" and "When do you expect it to come again?" The difference in days between these two questions were the days between supply. E.g. if the water last came on Sunday and was expected to come on Friday, days between supply would be 5 days.	Integer

a – In R1 and R2, the wording was "In the last month, how many times did the water not come on the day you expected?"; for R3 and R4: "Last time the water came, did it come on the day you expected?" For R1 and R2, this was converted to a binary to match R3 and R4 data for this analysis; b – Caregiver-reported diarrhea was reported as a diarrhea episode occurring in the 7 days prior to the enumerator visit; c – (Ercumen et al., 2015)

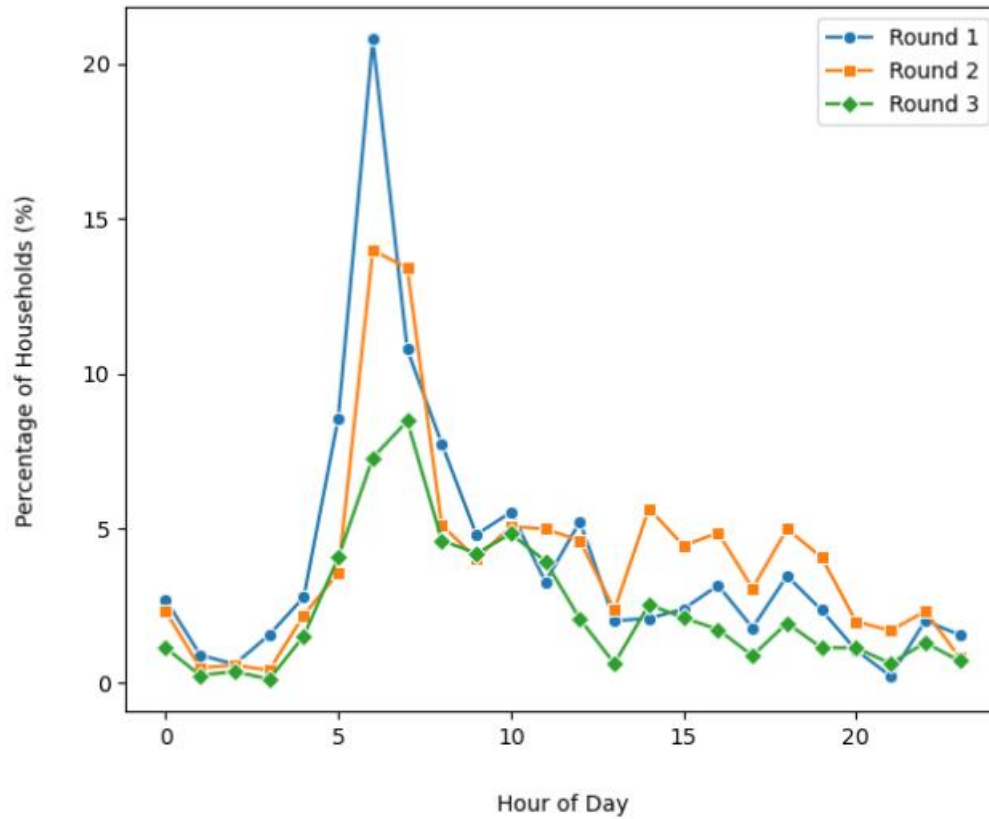


Figure S1: Start time of water supply. This figure shows the percentage of households receiving water supply starting at what hour of the day for different rounds of the survey.