

Table 5: Variable List in `estimation_dataset.RData`

Variable Name	Description	Type	Note
<code>id</code>	Household ID	numeric	Scrambled from SERVUS
<code>bill_date</code>	Bill issue date	date	-
<code>due_date</code>	Bill due date	date	-
<code>t</code>	Relative time from RCT bill	numeric	RCT bill = 0
<code>B.t</code>	Current bill amount	numeric	-
<code>D.t</code>	Unpaid debt	numeric	-
<code>F.t</code>	Fees	numeric	-
<code>O.t</code>	Total amount due	numeric	-
<code>E.t</code>	Total payment	numeric	-
<code>lag_w.t</code>	Water use (in ccf)	numeric	-
<code>discount_grid</code>	Discount cell assignment	numeric	0-80% (in 10% increments)
<code>fa_type</code>	Financial assistance at randomization	character	“LINC” Tier1 (moderate), Tier2 (severe)
<code>delinquent_at_randomization</code>	Delinquency status at randomization	character	Delinquent, Not delinquent
<code>has_environment_discount</code>	Received environmental discount	logical	“CLEANRIVER”
<code>shutoff_date</code>	Water shutoff date	date	Action took place between bills
<code>reconnect_date</code>	Water reconnect date	date	Action took place between bills
<code>account_status</code>	Customer account status	character	-
<code>ufh</code>	Below UFH flag	logical	Based on Aspire income
<code>fa_eligible</code>	Eligible for financial assistance	logical	Based on Aspire income/household size
<code>below_median_income</code>	Income below median	logical	Based on Aspire income
<code>payment_plan</code>	Enrolled in payment plan	logical	-
<code>monthly_payment</code>	On monthly installment billing	logical	-
<code>linc_tier_type_at_bill</code>	Financial assistance applied on the bill	character	“LINC” Tier1 (moderate), Tier2 (severe)
<code>is_honored_citizen</code>	Flag for honored citizen status	logical	Seniors or disabled
<code>is_rebill</code>	Is bill a reissue	logical	-
<code>first_bill</code>	Bill was the first bill in the system	logical	-
<code>exit_reason</code>	Reason for account exit	character	PWB-inputted reasons
<code>cycle_code</code>	Billing cycle code	numeric	-
<code>state_id</code>	State FIPS code	numeric	-
<code>county_id</code>	County FIPS code	character	-
<code>tract_id</code>	Census tract	character	-
<code>block_group_id</code>	Census block group	numeric	-
<code>service_water</code>	Water service recipient	logical	-
<code>service_sewer</code>	Sewer service recipient	logical	-
<code>service_storm</code>	Stormwater service recipient	logical	-
<code>rct_discount</code>	RCT discount amount	numeric	-
<code>cleanriver_discount</code>	Environmental discount amount	numeric	“CLEANRIVER”
<code>linc_discount</code>	Financial assistance discount amount	numeric	“LINC”
<code>crisis_voucher</code>	Crisis voucher discount amount	numeric	-