Codebook

From Call to Arrival: How RPD Responds to 911 Calls for Service

Description: public_call_data.csv contains event-level information for all calls placed to ECD and routed to RPD from March 14, 2021 to December 31, 2024.

Variable	Variable Definition	Type
ID	Unique row identifier.	Integer
Event_Type	Code indicating the call type; assigned by ECD at time of call creation.	Character
Event_Priority	ECD assigned priority level. Range from 0-9.	Integer
CallBucket	RPD assigned call category.	Integer
Tier	RPD assigned tier.	Character
year	Year the call was created.	Character
month	Month in which the call was created.	Character
wday	Day of the week in which the call was created.	Character
CreateTime	Time when a call is entered into the ECD system and sufficient information is gathered to begin dispatch.	Integer
DispatchTime	Time when the ECD dispatcher dispatches RPD to the call.	Integer
ArriveTime	Time when a police officer arrives at the location of the emergency.	Integer
CA_min	Minutes from call creation to officer arrival.	Numeric
DA_min	Minutes from call dispatch to officer arrival.	Numeric
GEOID	Census tract identifer	Character

Notes:

Prior to analyzing response times, the dataset was cleaned to address outliers (defined as observations falling beyond three standard deviations from the mean in key time intervals as well as calls that lasted less than a minute or over 24 hours), erroneous timestamps (e.g., dates recorded as occurring in 1969), and invalid or incorrectly typed addresses.

For geographic assessments, calls were aggregated at the census tract level to evaluate variation in response times across the city. Where address information was not reliably available, those records were excluded from spatial analysis.