Codebook: RMVC Milk Quality Submission Data

Study Information

Title: When milk quality pays: Evidence from an incentive experiment in Uganda

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Organization: International Food Policy Research Institute (IFPRI)

Location: Kazo region, Uganda

Study Description: This dataset contains milk quality submission records from a randomized controlled trial examining how quality measurement and price incentives affect milk production standards in smallholder dairy value chains. The intervention introduced milk analyzers at Milk Collection Centers (MCCs) to make milk quality visible and implemented price incentive mechanisms. Each observation represents a milk delivery by a trader to an MCC, with quality readings (fat and solids-not-fat content) recorded by the milk analyzer and the corresponding quality bonus calculated.

Reference: https://www.ifpri.org/blog/when-milk-quality-pays-evidence-from-an-incentive-experiment-in-uganda/

Sample: 5596 milk quality submissions from traders at Milk Collection Centers

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Variable Dictionary

Variable	Label	Type	Values
trader_ID	Trader ID (anonymized)	String	100 unique values
MCC_ID	Milk Collection Center ID (anonymized)	String	19 unique values
district	District	String	Kazo, Kiruhura
treatment	Treatment assignment (RCT)	Categorical	0=Control; 1=Treatment
Fat	Fat content reading (%)	Numeric	0 to 7.3
SNF	Solids-Not-Fat reading (%)	Numeric	5.2 to 11.1
Qty	Quantity of milk delivered (liters)	Numeric	4 to 977
bonus	Quality bonus paid (UGX)	Numeric	0 to 293700
submission_date	Date and time of submission	String	5596 unique values

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Value Labels Reference

Treatment Status (`treatment`)

Code	Label
0	Control

Code	Label
1	Treatment

Notes

- Each observation represents a single milk delivery by a trader to a Milk Collection Center (MCC)
- Traders may appear multiple times as they make repeated deliveries
- `Fat` is the fat content percentage as measured by the milk analyzer
- `SNF` is the solids-not-fat content percentage as measured by the milk analyzer
- `Qty` is the total quantity of milk delivered in liters (all cans, not just the one tested)
- `bonus` is the quality bonus in Ugandan Shillings (UGX) calculated based on quality readings and quantity
- `submission_date` is in ISO 8601 format with timezone (East Africa Time, UTC+03:00)
- Treatment MCCs had milk analyzers installed and price incentives implemented; Control MCCs did not