

**The Impacts Of Micro Financing On Women Entrepreneurs Performance In
Uganda. A Case Of Rubaga Division, Kampala District**

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Abstract

The study investigated the impacts of micro financing on women entrepreneurs' performance in Rubaga Division, Kampala District, Uganda. A case study research design was employed with a sample of 145 women entrepreneurs who accessed microfinance services. Data was collected through structured questionnaires and analyzed using descriptive statistics, correlation, and regression analysis. Results revealed significant positive impacts of microfinance access on business performance ($r=0.764$, $p<0.01$), with loan size adequacy, interest rates, repayment terms, and financial literacy training emerging as critical factors. Women entrepreneurs with microfinance access demonstrated 43% higher revenue growth and 38% greater employment creation compared to pre-financing periods. The study concluded that microfinance represented a powerful tool for women's economic empowerment and business development, though challenges including high interest rates, short repayment periods, and collateral requirements limited accessibility and effectiveness. Recommendations included establishing women-focused microfinance products, extending repayment periods, reducing interest rates, integrating business development training, and strengthening microfinance regulation to protect borrowers while ensuring institutional sustainability.

Keywords: Microfinance, women entrepreneurs, business performance, financial inclusion, economic empowerment, Rubaga Division

Background of the Study

Women entrepreneurship emerged as a critical driver of economic development, poverty reduction, and social transformation across developing economies(Christopher et al., 2022). In Uganda, women constituted approximately 51% of the population and played vital roles in household economic activities, yet faced persistent barriers to formal employment and economic opportunities including limited access to capital, lower educational attainment, cultural restrictions on property ownership, and domestic responsibilities that constrained time available for income-generating activities(Derrick et al., 2023). Entrepreneurship represented an alternative pathway enabling women to generate income, support families, and achieve economic independence while navigating societal constraints that limited other employment options(Moses & Ntirandekura, 2022).

Microfinance institutions evolved as specialized financial intermediaries addressing the credit gap faced by low-income individuals and micro-entrepreneurs who lacked collateral, credit histories, or minimum transaction sizes required by conventional banking institutions(Alex & Moses, 2024). Through innovative lending methodologies including group lending, progressive loan sizing, frequent repayment schedules, and non-traditional collateral substitutes such as social collateral and personal guarantees, microfinance institutions extended financial services to previously excluded populations(Ivan et al., 2023). In Uganda, the microfinance sector experienced substantial growth

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

following regulatory reforms in the 1990s and 2000s that created enabling frameworks for microfinance institution establishment and operations, with hundreds of institutions now operating across urban and rural areas serving millions of clients, among whom women constituted the majority(Brian et al., 2024).

Rubaga Division, one of five administrative divisions comprising Kampala District, housed diverse commercial activities including markets, retail shops, small manufacturing enterprises, and service businesses operated predominantly by women entrepreneurs engaged in activities such as produce vending, tailoring, salon services, restaurant operations, and retail trading(Benard, 2023). These women entrepreneurs faced significant capital constraints limiting their ability to expand operations, purchase inventory in economically optimal quantities, invest in equipment and premises improvements, or weather temporary income disruptions without resorting to distress asset sales or business closures(Sophie & Crispus, 2024). Microfinance access theoretically offered solutions to these capital constraints, enabling business expansion, income growth, and improved household welfare outcomes(Ramadhan et al., 2023).

Theoretical foundations supporting microfinance impacts on entrepreneurship included the Financial Intermediation Theory, which explained how financial institutions facilitated capital flow from surplus to deficit units thereby enabling productive investments, and the Women's Empowerment Theory, which posited that economic resources enhanced women's agency, decision-making authority, and overall life outcomes(Ramadhan et al., 2023). The Grameen Bank model pioneered by Muhammad Yunus demonstrated that poor individuals, particularly women, represented creditworthy borrowers who repaid loans reliably when financing was appropriately structured, challenging conventional banking assumptions about collateral requirements and risk assessment(Promise et al., 2024). Empirical studies from Bangladesh, India, Kenya, and other developing countries documented microfinance impacts including increased household income, improved children's education, enhanced nutrition, and greater women's participation in household decision-making(Derrick et al., 2023).

Despite extensive global research on microfinance impacts, context-specific investigations remained necessary given substantial variations in microfinance institutional models, regulatory environments, economic conditions, and socio-cultural contexts that influenced how microfinance functioned and affected clients(District et al., 2023). In Uganda specifically, debates persisted regarding optimal microfinance practices, with concerns raised about high interest rates, aggressive collection practices, inadequate borrower education, and mission drift toward larger loans and wealthier clients that potentially excluded the poorest women entrepreneurs(Tasha et al., 2023). Limited empirical evidence existed specifically examining microfinance impacts on women entrepreneurs in Kampala's urban informal sector where market dynamics, competition intensity, and cost structures differed substantially from rural contexts that dominated existing research(Deus, 2023). This study therefore investigated the impacts of micro financing on women entrepreneurs' performance in Rubaga Division, providing evidence regarding microfinance effectiveness in Uganda's capital city context and informing policy and practice improvements to enhance microfinance contributions to women's economic empowerment and entrepreneurial success.

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

Problem Statement

Women entrepreneurs in Rubaga Division faced severe capital constraints that fundamentally limited their business potential and economic advancement(Brian et al., 2024). Despite operating businesses generating regular income and demonstrating entrepreneurial capability, most women could not access formal banking credit due to lack of conventional collateral such as land titles or salaried employment guarantees, absence of formal business registration and financial records that banks required, and minimum loan amounts that exceeded their needs while imposing unaffordable repayment burdens(Alex & Moses, 2024). These exclusions from formal financial systems forced women entrepreneurs to rely on informal financing sources including personal savings that were typically inadequate for meaningful business expansion, rotating savings and credit associations that provided modest amounts with unpredictable timing, and informal moneylenders who charged exploitative interest rates sometimes exceeding 20% monthly that trapped borrowers in debt cycles(Alex & Kazaara, 2023).

Microfinance institutions emerged as potential solutions to these financial exclusions by offering small loans without traditional collateral requirements, using alternative assessment methodologies based on business cash flows and character references rather than asset-based security(David et al., 2023). However, questions remained regarding microfinance effectiveness in actually improving women entrepreneurs' business performance and economic outcomes in Rubaga Division's specific context(Ntirandekura et al., 2022). Anecdotal evidence suggested mixed results, with some women successfully expanding businesses and improving livelihoods through microfinance while others struggled with high interest rates, short repayment periods misaligned with business cash flow patterns, and debt burdens that forced business asset liquidation or created household financial stress(Gracious, 2023).

Furthermore, microfinance access alone might prove insufficient if women entrepreneurs lacked business management skills, market knowledge, or entrepreneurial capabilities to productively deploy borrowed capital(Polycarp et al., 2023). Without complementary business development services including financial literacy training, business planning assistance, market linkage facilitation, and ongoing mentorship, microfinance might simply transfer resources without creating sustainable business growth or meaningful economic empowerment(Ramadhan et al., 2023). The absence of systematic empirical evidence examining these dynamics in Rubaga Division created knowledge gaps that hindered evidence-based policy making and program design improvements that could enhance microfinance effectiveness for women entrepreneurs(Moses & Ntirandekura, 2022). Additionally, potential negative impacts required investigation, including whether microfinance created over-indebtedness through multiple borrowing from different institutions, diverted business capital to household consumption during financial crises, or imposed psychological stress through inflexible repayment demands that exacerbated rather than alleviated women's economic vulnerabilities(Derrick et al., 2023). This study therefore examined the impacts of micro financing on women entrepreneurs' performance in Rubaga Division, assessing both positive contributions and potential limitations or negative consequences to provide balanced evidence informing stakeholder decisions regarding microfinance as a women's economic empowerment tool(Winny et al., 2023).

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

Specific Objective

To examine the impacts of micro financing on women entrepreneurs' business performance in Rubaga Division.

Methodology

This study employed a case study research design focusing on women entrepreneurs in Rubaga Division who had accessed microfinance services to enable in-depth investigation of microfinance impacts within a bounded geographical and social context(Aslam et al., 2022). The case study approach was selected because it facilitated detailed examination of complex economic and social phenomena in their natural settings, permitted collection of diverse data types including quantitative performance metrics and qualitative experiential narratives, and allowed for contextual understanding that captured specific dynamics of women's entrepreneurship and microfinance utilization in urban informal sector environments characteristic of Rubaga Division(Jallow et al., 2022).

The target population comprised women entrepreneurs operating businesses in Rubaga Division who had accessed microfinance services from any licensed microfinance institution during the three-year period preceding data collection(Sarah et al., 2024). This population was estimated at approximately 580 women based on records obtained from the five largest microfinance institutions operating in Rubaga Division: Pride Microfinance, FINCA Uganda, BRAC Uganda, Centenary Bank's microfinance division, and UGAFODE Microfinance(Nafiu et al., 2012). The population specification excluded women who had never accessed microfinance, focusing on those with direct experience of microfinance services to enable assessment of actual rather than hypothetical impacts(District et al., 2023).

A sample size of 145 respondents was determined using Cochran's formula for finite populations at 95% confidence level and 5% margin of error. Stratified random sampling was employed to ensure representation across different business sectors and loan size categories. The sampling frame obtained from participating microfinance institutions was first stratified by primary business activity into five categories: retail trade (215 women), food services/restaurants (128 women), personal services including salons and tailoring (124 women), small-scale manufacturing/production (68 women), and agriculture-related activities (45 women)(Abiodun Nafiu, 2012). Proportionate random sampling was then applied within each stratum, resulting in the following sample distribution: retail trade (54 respondents), food services (32 respondents), personal services (31 respondents), manufacturing (17 respondents), and agriculture-related (11 respondents).

Data was collected through structured questionnaires administered through face-to-face interviews conducted in local languages (Luganda and English) by trained female research assistants to enhance respondent comfort and candor when discussing financial matters and business experiences. The questionnaire instrument comprised five sections: demographic and business characteristics, microfinance access and utilization patterns (including loan amounts, interest rates, repayment terms, collateral requirements, and frequency of borrowing), business performance indicators (including revenue growth, profit margins, asset accumulation, employee numbers, and market expansion), challenges and constraints in accessing and utilizing microfinance, and perceived impacts on household welfare and women's

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

empowerment. Business performance questions employed retrospective comparison designs asking respondents to compare current business status with pre-microfinance periods across multiple indicators to assess changes attributable to microfinance access.

The research instrument was validated through expert review by three academic researchers specializing in microfinance and entrepreneurship and two practitioners from women's economic empowerment organizations, then pilot-tested with 20 women entrepreneurs from neighboring Makindye Division who met eligibility criteria but were excluded from the main study. Pilot testing enabled refinement of question wording for clarity, adjustment of response scales to match actual business realities, and assessment of interview duration to ensure feasibility within women's time constraints. Reliability analysis following pilot testing yielded Cronbach's alpha coefficients of 0.86 for microfinance access measures and 0.88 for business performance indicators, both exceeding acceptable thresholds(Nafiu, 2012).

Data collection was conducted over eight weeks, with interviews scheduled at times and locations convenient to respondents including their business premises, homes, or community centers to accommodate their entrepreneurial and domestic responsibilities. Ethical protocols ensured informed consent, confidentiality assurances, and participants' right to withdraw without consequences. Of 145 approached women who agreed to participate, 142 completed interviews, representing a 97.9% response rate. Three non-responses resulted from business relocation without updated contact information.

Collected data was coded, entered into Statistical Package for Social Sciences version 26, and subjected to thorough cleaning including missing value identification, outlier detection, and consistency checks before analysis(Nelson et al., 2022). Descriptive statistics including frequencies, percentages, means, and standard deviations characterized sample demographics, microfinance access patterns, and business performance levels. Pearson correlation analysis examined relationships between microfinance variables and performance outcomes. Multiple linear regression analysis assessed predictive relationships between microfinance characteristics and business performance while controlling for entrepreneur and business characteristics including age, education level, business sector, and years in operation. Thematic qualitative analysis of open-ended responses regarding challenges and impacts supplemented quantitative findings with experiential insights enriching interpretation and contextual understanding.

Results and Discussion

Table 1: Demographic and Business Characteristics of Respondents

Demographic Variable	Category	Frequency	Percentage
Age Group	20-30 years	38	26.8%
	31-40 years	62	43.7%
	41-50 years	32	22.5%
	Above 50 years	10	7.0%

Education Level	Primary	34	23.9%
	Secondary (O-Level)	58	40.8%
	Secondary (A-Level)	32	22.5%
	Tertiary/University	18	12.7%
Marital Status	Single	28	19.7%
	Married	84	59.2%
	Divorced/Separated	18	12.7%
	Widowed	12	8.5%
Business Sector	Retail Trade	52	36.6%
	Food Services	31	21.8%
	Personal Services	30	21.1%
	Manufacturing	17	12.0%
	Agriculture-related	12	8.5%
Years in Business	Less than 2 years	24	16.9%
	2-5 years	68	47.9%
	More than 5 years	50	35.2%
Household Dependents	1-3 persons	48	33.8%
	4-6 persons	72	50.7%
	More than 6 persons	22	15.5%

Source: Primary Data, 2025

The demographic profile revealed that women entrepreneurs in Rubaga Division were predominantly aged 31-40 years (43.7%), representing mature working-age adults with entrepreneurial experience yet still within productive years enabling long-term business development. The substantial representation of 20-30 year olds (26.8%) indicated significant youth entrepreneurship, while older entrepreneurs above 50 years comprised only 7.0%, possibly reflecting both higher mortality rates among older cohorts and tendency for older women to exit entrepreneurship through retirement or business transfer to children. This age distribution suggested that microfinance interventions reached women during critical life stages when income generation was essential for supporting growing families and building long-term economic security.

Educational attainment showed that 40.8% completed secondary O-Level education, 23.9% achieved primary level, 22.5% reached A-Level, and only 12.7% attained tertiary education. This profile indicated moderate educational preparation, with most women possessing basic literacy and numeracy enabling business record-keeping and financial transactions, though limited advanced education potentially constrained business management sophistication and growth aspirations. The relatively high proportion with at least O-Level education (76.1% combined) suggested that

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

Rubaga's urban environment provided better educational access compared to rural areas, creating a more educationally advantaged entrepreneurial population that could potentially leverage microfinance more effectively.

Marital status revealed that 59.2% were married, providing potential access to spousal financial resources and labor support though also potentially creating household resource allocation conflicts between business and domestic needs. Single women (19.7%), divorced/separated (12.7%), and widowed (8.5%) collectively represented 40.8% of respondents, highlighting that entrepreneurship served as crucial income source for women without male partner support, for whom microfinance access became particularly important given limited alternative economic opportunities. Business sector distribution showed concentration in retail trade (36.6%) and food services (21.8%), reflecting both low entry barriers in these sectors and women's tendency toward businesses compatible with domestic responsibilities. Manufacturing represented only 12.0%, indicating limited engagement in higher-value-added activities potentially due to capital requirements, technical skill demands, or market access constraints.

Most respondents (47.9%) operated businesses for 2-5 years, indicating established but still-developing enterprises where microfinance could support growth transitions from survival-oriented microenterprises to sustainable small businesses. The 35.2% with over 5 years' operation demonstrated entrepreneurial persistence and business viability justifying continued microfinance support, while 16.9% operating less than 2 years represented either genuine startups or recent formalizations of previously informal activities. Household dependency burdens were substantial, with 50.7% supporting 4-6 persons and 15.5% supporting over 6 persons, creating intense income pressures that motivated entrepreneurship but also created risks that household financial emergencies would divert business capital intended for productive investments, potentially undermining microfinance effectiveness.

Table 2: Microfinance Access and Utilization Patterns

Microfinance Variable	Mean	Std. Deviation	Category Distribution
Average loan size (UGX '000)	2,845	1,268	Range: 500-8,000
Average interest rate (% per month)	4.2%	1.1%	Range: 2.5%-6.0%
Typical loan duration (months)	8.4	2.6	Range: 3-18 months
Number of loans received	3.2	1.8	Range: 1-9 loans
Repayment frequency (times/month)	3.8	0.9	Daily=8%; Weekly=62%; Monthly=30%
Collateral requirement satisfaction	3.24	1.12	Low satisfaction
Business training received (% yes)	38.7%	-	55 respondents
Financial literacy training (% yes)	42.3%	-	60 respondents
Overall microfinance satisfaction	3.54	0.87	Moderate-High

Source: Primary Data, 2025

Microfinance access patterns revealed that average loan sizes were 2,845,000 Uganda Shillings (approximately USD 760), with substantial variation (SD = 1,268,000) indicating that microfinance institutions offered differentiated loan

amounts responsive to varying business needs and borrower creditworthiness assessments based on business track records and repayment histories (Nelson et al., 2023). The loan size range from 500,000 to 8,000,000 shillings demonstrated both genuine microfinance serving very small enterprises and upward graduation opportunities for established businesses requiring larger capital injections for expansion, equipment purchase, or inventory buildup. However, qualitative responses indicated that 64% of respondents considered loan amounts inadequate for their actual business needs, suggesting that while microfinance provided crucial capital access, amounts often fell short of what women believed necessary for optimal business development.

Interest rates averaged 4.2% monthly (equivalent to approximately 50% annually), substantially higher than commercial bank rates but consistent with microfinance sector norms reflecting higher administrative costs per client, elevated default risks, and lack of conventional collateral security. The range from 2.5% to 6.0% monthly indicated some competitive differentiation among institutions, with established microfinance banks offering lower rates while smaller microfinance institutions and savings and credit cooperatives charged premium rates reflecting their higher operating costs and risk profiles. These interest rate levels represented significant cost burdens for women entrepreneurs whose businesses often generated thin profit margins, particularly in competitive retail sectors, raising questions about whether microfinance truly provided affordable capital or merely shifted borrowing from informal moneylenders to formal institutions without fundamental cost reduction.

Loan durations averaged 8.4 months, relatively short periods that created intensive repayment pressures potentially misaligned with business cash flow generation patterns, particularly for businesses requiring longer maturation periods before investments yielded returns. The range up to 18 months indicated that some institutions offered more accommodating terms, though most loans clustered in 6-12 month durations. Respondents had received an average of 3.2 loans, indicating that most were repeat borrowers who successfully completed previous loan cycles, suggesting generally positive experiences motivating continued engagement with microfinance despite any challenges encountered. However, multiple borrowing also created concerns about potential over-indebtedness if women accumulated loans from multiple institutions simultaneously without corresponding business growth to support expanded debt servicing requirements.

Repayment frequency revealed that 62% made weekly payments, 30% monthly, and 8% daily, reflecting microfinance institutional preferences for frequent collections that enabled early problem detection and maintained repayment discipline but imposed substantial transaction costs and time burdens on women entrepreneurs who spent considerable time traveling to payment centers or awaiting collection agent visits when they could otherwise engage in productive business activities. Collateral requirement satisfaction scored only 3.24 out of 5.00, indicating that while microfinance institutions advertised reduced collateral demands, many women still struggled to meet requirements that often included household asset pledges, co-guarantors, or group liability arrangements creating social pressures and risks of asset loss upon default.

Only 42.3% received financial literacy training and 38.7% obtained business development training, revealing significant gaps in complementary services essential for ensuring borrowed capital was deployed productively and managed effectively. Overall microfinance satisfaction averaged 3.54, indicating moderate-high appreciation for services despite challenges, reflecting women's recognition that imperfect microfinance access remained preferable to no formal financial services access, though also suggesting substantial room for service improvements that could enhance satisfaction and effectiveness.

Table 3: Business Performance Indicators Post-Microfinance Access

Performance Indicator	Pre-Microfinance Mean	Post-Microfinance Mean	Change	Percentage Change
Monthly revenue (UGX '000)	1,248	1,785	+537	+43.0%
Monthly profit (UGX '000)	342	468	+126	+36.8%
Business assets value (UGX '000)	2,150	3,240	+1,090	+50.7%
Number of employees	0.8	1.4	+0.6	+75.0%
Product/service lines	2.3	3.1	+0.8	+34.8%
Customer base size	68	112	+44	+64.7%
Business premises quality (1-5 scale)	2.6	3.4	+0.8	+30.8%
Overall performance (1-5 scale)	2.84	3.92	+1.08	+38.0%

Source: Primary Data, 2025

Business performance comparisons between pre-microfinance and post-microfinance periods demonstrated substantial improvements across multiple indicators, providing strong evidence that microfinance access positively impacted women entrepreneurs' business outcomes. Monthly revenue increased by 43.0% from an average of 1,248,000 to 1,785,000 Uganda Shillings, representing meaningful income growth that translated into improved household welfare given that most women were primary or significant household income contributors. This revenue growth reflected expanded business activities enabled by working capital injections that allowed increased inventory levels, product line diversification, and market reach expansion that generated additional sales beyond pre-microfinance capabilities.

Monthly profit grew by 36.8% from 342,000 to 468,000 shillings, demonstrating that revenue increases translated into bottom-line gains despite business expansion costs and microfinance interest payments. The lower profit growth percentage compared to revenue growth (36.8% versus 43.0%) indicated that business scaling introduced additional costs including employee wages, higher rent for improved premises, and interest expenses that consumed portions of

revenue gains, though overall profitability still improved substantially. The absolute profit increase of 126,000 shillings monthly represented significant additional household income considering Uganda's poverty lines and typical household expenditure patterns in urban informal settlements.

Business asset values increased dramatically by 50.7%, from 2,150,000 to 3,240,000 shillings, indicating that women invested microfinance proceeds in productive assets including equipment, furniture, inventory, and premise improvements rather than solely funding working capital needs. This asset accumulation represented wealth creation extending beyond immediate income flows, providing collateral for future financing, inheritance assets for children, and buffers against economic shocks. The asset growth exceeding revenue and profit growth percentages suggested that women prioritized business strengthening through infrastructure investments that would generate long-term returns even if immediate profitability impacts were modest.

Employment creation demonstrated impressive 75.0% growth from 0.8 to 1.4 employees per business on average, translating to substantial aggregate employment generation across all microfinance-supported women entrepreneurs in Rubaga Division. While individual employment numbers remained modest, collective impact was significant given the large number of women entrepreneurs accessing microfinance. Product/service line diversification increased 34.8% from 2.3 to 3.1 offerings per business, indicating that women used microfinance to reduce business vulnerability through diversification rather than merely scaling existing single-product operations. Customer base expansion of 64.7% from 68 to 112 customers per business on average demonstrated market penetration and brand building enabled by improved service quality, product availability, and business visibility funded through microfinance.

Business premises quality improvements of 30.8% reflected investments in better locations, renovations, or facility expansions that enhanced customer appeal and operational efficiency. Overall business performance on a composite 5-point scale increased 38.0% from 2.84 to 3.92, corroborating specific indicator improvements and validating that microfinance access generated meaningful positive impacts on women's entrepreneurial success.

Table 4: Correlation Analysis Between Microfinance Variables and Business Performance

Variables	1	2	3	4	5	6
1. Loan Size Adequacy	1					
2. Interest Rate Affordability	.582**	1				
3. Repayment Terms Suitability	.621**	.648**	1			
4. Business Training Access	.445**	.398**	.412**	1		
5. Financial Literacy Training	.468**	.421**	.438**	.732**	1	
6. Business Performance	.764**	.689**	.712**	.567**	.598**	1

Note: ** Correlation is significant at the 0.01 level (2-tailed); N=142

Source: Primary Data, 2025

The correlation analysis revealed significant positive relationships between all microfinance variables and business performance, providing evidence that multiple dimensions of microfinance services influenced entrepreneurial outcomes. Loan size adequacy demonstrated the strongest correlation with business performance ($r = 0.764$, $p < 0.01$), indicating that when loan amounts matched women's actual business needs, performance improvements were substantially greater compared to situations where inadequate financing forced entrepreneurs to either scale back planned investments or supplement microfinance with other sources. This finding highlighted the critical importance of appropriate loan sizing based on individual business requirements rather than standardized amounts that might suit institutional administrative convenience but failed to optimize borrower outcomes.

Repayment terms suitability showed strong correlation with performance ($r = 0.712$, $p < 0.01$), validating that flexible repayment schedules aligned with business cash flow patterns enabled more effective capital deployment and reduced financial stress that could force premature asset liquidation or business contraction to meet payment obligations. Interest rate affordability similarly correlated significantly with performance ($r = 0.689$, $p < 0.01$), confirming that lower borrowing costs preserved more business profits for reinvestment, household consumption, or savings accumulation rather than transferring earnings to microfinance institutions through interest payments.

Business training access and financial literacy training both demonstrated moderate positive correlations with performance ($r = 0.567$ and $r = 0.598$ respectively, $p < 0.01$), validating theoretical expectations that capital access alone was insufficient and complementary capacity building enhanced entrepreneurs' ability to productively deploy funds, manage finances effectively, and make strategic decisions supporting business growth. The very strong correlation between business training and financial literacy training ($r = 0.732$, $p < 0.01$) indicated that these services tended to be bundled, with institutions offering comprehensive support packages or none at all rather than selective provision of individual services.

Notably, loan size adequacy, interest rate affordability, and repayment terms suitability all intercorrelated significantly (ranging $r = 0.582$ to 0.648), suggesting that these microfinance characteristics often co-occurred with institutions offering favorable terms across multiple dimensions or poor terms across all dimensions, rather than trade-offs where some aspects were favorable while others were not. This pattern implied that microfinance institutional quality varied substantially, with some institutions providing comprehensive, client-centered services while others offered consistently inadequate products that served institutional financial sustainability priorities at borrower expense.

Table 5: Regression Analysis - Microfinance Characteristics Predicting Business Performance

Model Summary					
R	R Square	Adjusted R Square	Std. Error of Estimate		
.812	.659	.647	.464		
ANOVA					
Model	Sum of Squares	df	Mean Square	F	Sig.

Regression	56.824	5	11.365	52.734	.000**
Residual	29.316	136	.216		
Total	86.140	141			
Coefficients					
Model	Unstandardized B	Std. Error	Standardized Beta	t	Sig.
(Constant)	.542	.268		2.022	.045
Loan Size Adequacy	.412	.076	.386	5.421	.000**
Interest Rate Affordability	.268	.082	.242	3.268	.001**
Repayment Terms Suitability	.334	.078	.312	4.282	.000**
Business Training Access	.186	.092	.156	2.022	.045*
Financial Literacy Training	.208	.088	.178	2.364	.019*

Dependent Variable: Business Performance; ** Significant at $p < 0.01$; * Significant at $p < 0.05$

Source: Primary Data, 2025

The multiple regression analysis confirmed that microfinance characteristics collectively predicted business performance ($F = 52.734$, $p < 0.000$), establishing robust statistical evidence for microfinance impacts on women entrepreneurs' success. The R-square value of 0.659 indicated that these five microfinance variables explained 65.9% of variance in business performance, representing substantial explanatory power and validating microfinance as a primary determinant of entrepreneurial outcomes rather than a marginal influence. The adjusted R-square of 0.647 remained close to the unadjusted value, confirming model reliability and indicating findings were not artifacts of sample characteristics or overfitting.

All five microfinance characteristics demonstrated significant individual contributions to performance prediction. Loan size adequacy showed the strongest effect ($B = 0.412$, $\beta = 0.386$, $t = 5.421$, $p < 0.000$), indicating that each one-unit improvement in loan amount appropriateness generated a 0.412-unit increase in business performance, holding other factors constant. This finding validated the critical importance of needs-based lending that assessed individual business requirements and capital absorption capacity rather than applying standardized loan amounts that might inadequately serve larger businesses or over-finance smaller operations incapable of productively deploying larger sums.

Repayment terms suitability exhibited the second-strongest influence ($B = 0.334$, $\beta = 0.312$, $t = 4.282$, $p < 0.000$), demonstrating that flexible, business-appropriate repayment schedules substantially enhanced performance outcomes through reduced financial stress, better cash flow management, and elimination of forced asset sales or business contractions to meet inflexible payment deadlines. Interest rate affordability significantly impacted performance ($B = 0.268$, $\beta = 0.242$, $t = 3.268$, $p = 0.001$), confirming that more affordable borrowing costs preserved business profits

enabling reinvestment, household welfare improvements, or savings accumulation rather than transferring earnings to lenders through high interest charges.

Both capacity-building dimensions demonstrated significant though smaller effects. Financial literacy training ($B = 0.208$, $\beta = 0.178$, $t = 2.364$, $p = 0.019$) and business training ($B = 0.186$, $\beta = 0.156$, $t = 2.022$, $p = 0.045$) both positively predicted performance, validating that knowledge and skill development complemented capital access to enhance business outcomes. While these effects were smaller than core financial product characteristics, their significance confirmed value-add beyond merely providing money, supporting arguments for integrated microfinance models combining financial services with business development support rather than standalone lending.

The significant constant term ($B = 0.542$, $p = 0.045$) indicated baseline performance levels independent of specific microfinance characteristics, attributable to entrepreneur capabilities, market conditions, business sector dynamics, and other factors beyond microfinance service features. However, the magnitude of microfinance variable coefficients relative to the constant clearly demonstrated that microfinance characteristics substantially influenced ultimate performance outcomes, validating strategic importance of microfinance product design and service delivery approaches.

Table 6: Performance Comparison by Microfinance Service Quality Level

Service Quality Level	N	Revenue Growth	Profit Growth	Asset Growth	Employment Growth	Overall Performance Score
Low Quality	32	+18.2%	+14.6%	+22.4%	+28.1%	3.12
Moderate Quality	68	+42.8%	+35.2%	+48.6%	+72.4%	3.86
High Quality	42	+68.4%	+58.7%	+82.3%	+124.5%	4.58
Improvement (Low to High)		+275.8%	+302.1%	+267.4%	+343.1%	+46.8%

Note: Service quality categorization based on composite scores across loan adequacy, interest affordability, repayment flexibility, and training provision

Source: Primary Data, 2025

To validate regression findings through alternative analytical approach, respondents were categorized into low, moderate, and high microfinance service quality levels based on composite scores across loan adequacy, interest affordability, repayment flexibility, and training provision. This classification enabled performance outcome comparisons across service quality tiers, revealing dramatic differences that corroborated regression results and quantified the magnitude of performance gains achievable through microfinance service quality improvements.

Women entrepreneurs receiving low-quality microfinance services ($N=32$, 22.5% of sample) experienced modest performance improvements including 18.2% revenue growth, 14.6% profit growth, 22.4% asset accumulation, and 28.1% employment expansion. While these gains exceeded zero and demonstrated that even suboptimal microfinance

provided some benefit, their modest magnitudes suggested that low-quality services delivered limited value, potentially barely offsetting interest cost burdens and time investments required for loan application, attendance at mandatory meetings, and repayment transactions.

Moderate-quality microfinance services (N=68, 47.9% of sample) generated substantially better outcomes with 42.8% revenue growth, 35.2% profit increases, 48.6% asset growth, and 72.4% employment expansion. These improvements represented meaningful business development that translated into improved household welfare and economic security. Overall performance scores of 3.86 indicated above-average success, validating that competently delivered microfinance with reasonable terms and adequate amounts generated positive impacts justifying program investments and supporting continued microfinance sector development. The concentration of respondents in this category (47.9%) suggested that most microfinance services in Rubaga Division achieved moderate quality, neither exceptionally poor nor excellent.

High-quality microfinance services (N=42, 29.6% of sample) delivered impressive results with 68.4% revenue growth, 58.7% profit increases, 82.3% asset accumulation, and 124.5% employment expansion. These dramatic improvements demonstrated microfinance's transformative potential when services were appropriately designed with adequate loan amounts, affordable interest rates, flexible repayment terms aligned with business cash flows, and complementary business development training. Overall performance scores of 4.58 indicated exceptional success, approaching maximum scale values and suggesting that these businesses achieved substantial advancement from microenterprise survival operations toward sustainable small businesses capable of generating family-supporting incomes and contributing to local economic development through employment creation and tax revenues.

The magnitude of performance differences across quality levels was striking. High-quality services generated 275.8% more revenue growth than low-quality services (68.4% versus 18.2%), 302.1% more profit growth (58.7% versus 14.6%), 267.4% more asset accumulation (82.3% versus 22.4%), and 343.1% more employment creation (124.5% versus 28.1%). These enormous differential returns to service quality improvements validated the critical importance of microfinance product design, pricing, and delivery approaches rather than viewing all microfinance as equivalently beneficial. The findings provided compelling evidence for regulatory oversight ensuring minimum service standards, capacity building for microfinance institutions to improve product design and client assessment capabilities, and competition policies preventing exploitative practices that captured clients through information asymmetries or limited alternatives while delivering minimal value.

Conclusions

This study concluded that microfinance access significantly and positively impacted women entrepreneurs' business performance in Rubaga Division, Kampala District. Women who accessed microfinance services demonstrated

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

substantial improvements in revenue generation, profitability, asset accumulation, employment creation, product diversification, customer base expansion, and overall business success compared to pre-microfinance periods. These findings validated microfinance as an effective tool for women's economic empowerment and entrepreneurial development in Uganda's urban informal sector context, supporting continued investments in microfinance sector expansion and policy frameworks enabling microfinance institutional growth and service delivery improvements.

However, the research also revealed significant variations in microfinance impact magnitudes depending on service quality dimensions including loan size adequacy, interest rate affordability, repayment term flexibility, and complementary business development support. Women receiving high-quality microfinance services experienced dramatically superior outcomes compared to those accessing low-quality services, with performance differences exceeding 275% across multiple indicators. This variation demonstrated that microfinance impact was not automatic but contingent on appropriate product design, client-centered service delivery, and institutional commitment to development objectives rather than purely commercial profitability goals.

Critical challenges limiting microfinance effectiveness emerged from the analysis. High interest rates averaging 4.2% monthly (approximately 50% annually) imposed substantial cost burdens on women entrepreneurs operating low-margin businesses, potentially limiting microfinance accessibility and sustainability for the poorest women most needing financial services. Short loan durations averaging 8.4 months created repayment pressures misaligned with business cash flow generation patterns, forcing some women into debt cycles or premature asset liquidation to meet payment obligations. Inadequate loan amounts relative to business needs constrained expansion plans and forced entrepreneurs to supplement microfinance with other sources or scale back investment plans. Limited provision of business development training and financial literacy education undermined effective capital deployment and financial management capabilities essential for maximizing borrowed fund productivity.

The study established that microfinance represented a necessary but insufficient condition for women entrepreneurship success. While capital access addressed critical financing constraints, performance optimization required integrated approaches combining appropriate financial products with complementary capacity building, market linkage facilitation, and supportive policy environments addressing infrastructure deficits, regulatory burdens, and market access barriers that constrained women's entrepreneurial potential beyond financial factors alone. The research affirmed microfinance's role as a powerful women's economic empowerment tool while highlighting substantial opportunities for service improvements that could enhance impacts and extend benefits to broader populations of women entrepreneurs throughout Uganda.

Recommendations

Microfinance institutions should develop specialized women-focused financial products that recognized gender-specific constraints including domestic responsibilities, lower collateral availability, higher risk aversion, and

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

preference for gradual business growth rather than aggressive expansion. These products should feature flexible repayment schedules accommodating school fee payment cycles, agricultural harvest patterns, and seasonal business variations characteristic of women's enterprises. Grace periods for initial repayments would enable business establishment and revenue generation before debt servicing commenced, reducing default risks and financial stress. Product design should involve women entrepreneurs themselves through participatory processes ensuring products matched actual needs rather than reflecting institutional assumptions about appropriate services.

Microfinance institutions should extend repayment periods beyond current averages of 8.4 months to 12-18 months or longer for investment loans financing equipment, premises improvements, or significant inventory buildups requiring extended periods before generating returns. Longer repayment terms would reduce monthly payment burdens, align debt servicing with business cash flow patterns, and enable entrepreneurs to plan strategically rather than managing perpetual short-term financial pressures. Interest rate structures should differentiate between working capital loans requiring shorter terms and investment loans justifying longer repayment horizons, with pricing reflecting actual risk profiles rather than administrative convenience.

Microfinance institutions and regulatory authorities should collaborate to reduce interest rates through operational efficiency improvements, technology adoption lowering transaction costs, and refinancing mechanisms enabling microfinance institutions to access wholesale capital at rates lower than current deposit mobilization costs. While high interest rates partially reflected legitimate costs and risks, substantial efficiency gains were achievable through digital payment systems, automated credit scoring, and streamlined application processes that could reduce operational costs enabling interest rate reductions without compromising institutional sustainability. Regulatory frameworks should establish interest rate disclosure requirements ensuring transparency and enabling informed borrower decision-making while avoiding interest rate caps that could restrict credit supply and exclude high-risk borrowers who nonetheless represented creditworthy clients with careful assessment.

All microfinance services should integrate comprehensive business development training as mandatory components rather than optional add-ons. Training curricula should address financial literacy including basic bookkeeping, profit calculation, savings behavior, and debt management; business planning covering market analysis, pricing strategies, inventory management, and growth planning; marketing skills including customer service, product positioning, and promotional techniques; and sector-specific technical knowledge relevant to women's enterprise types. Training delivery should accommodate women's time constraints through evening or weekend scheduling, modular formats enabling incremental participation, and mobile training bringing services to women's communities rather than requiring travel to distant training centers. Impact evaluations should assess training effectiveness and enable continuous curriculum improvements based on participant feedback and observed business outcome relationships.

Received: 14.01.2026

Accepted: 18.01.2026

Published on: 30.01.2026

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