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A Cross-Sectional Analysis of Determinants of Poverty: Evidence from the Agriculture Sector in South Punjab, Pakistan

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ARTICLE DETAILS	ABSTRACT
History:	Purpose: This study investigates the factors contributing to poverty in South Punjab's
Accepted: 01 October 2023	agricultural region in Pakistan. By conducting a cross-sectional analysis, it examines
Available Online: 20 October 2023	how household characteristics, agricultural productivity, and socioeconomic factors impact poverty levels. The primary objective is to identify the root causes of poverty
Keywords: Asset ownership, Gender, Women empowerment, Poverty	 in the region, aiming to alleviate it and enhance the well-being of rural communities. The study serves as a valuable resource for policymakers seeking to address poverty in South Punjab's agricultural sector.
empowerment, Poverty	Research Gap: The existing literature lacks comprehensive insights into factors such as asset ownership, women's empowerment, and various access to services variables
	in this specific regional context.
0	Design/Methodology/Approach: We employed the Ordinary Least Square (OLS) method to analyze data gathered from 900 households in South Punjab's Multan, Bahawalpur, and DG Khan divisions in 2022.
	The Main Findings: The study focused on three categories of independent variables:
	socio-demographic, economic, asset ownership, and women's empowerment determinants of poverty. Various factors were found to influence poverty in South
	Punjab, including age, marital status, dependency burden, distance from home to workplaces and healthcare facilities, access to safe drinking water and sanitation, employment status, education, asset ownership, and women's empowerment. The results indicate a positive association between age, dependency burden, distance from home to workplaces and healthcare facilities, and overall women's empowerment with poverty. Conversely, having a spouse, being widowed, and female asset ownership showed a negative association with poverty.
	Theoretical/Practical Implications of the Findings: This study provides essential insights into the underlying causes of poverty in South Punjab's agricultural sector, offering valuable guidance for policymakers and stakeholders working towards
	poverty eradication in the region.Originality/Value: Unlike previous research focusing on limited determinants of poverty alleviation, our comprehensive analysis utilizes data from these divisions, offering a more thorough examination across varied variables.

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1. Introduction

Millions of people worldwide are impacted by poverty, which is an extensive and complicated socioeconomic issue. Poverty involves a wide range of problems, including poor health, lack of education, and restricted access to social and economic opportunities, in addition to the lack of material resources. As policymakers work to solve the issues brought on by poverty and lessen its effects on people and communities, poverty alleviation has become a crucial policy concern (Mukhrjee and Benson, 2003).

For a number of reasons, reducing poverty is crucial. First, poverty has negative effects on both people and communities. It restricts access to necessities like food, water, shelter, and healthcare, which can result in reduced life expectancy and poor health outcomes. Poverty can keep people and families stuck in a cycle of poverty that is challenging to break because it restricts access to education and work possibilities. Furthermore, poverty may contribute to social unrest and political unrest, which may result in violence and conflict (Rupasingha and Goetz, 2007).

Second, reducing poverty is crucial for fostering development and economic prosperity. Because it lowers human capital, productivity, and investment in infrastructure and education, poverty restricts economic progress. Governments can promote economic growth and development through raising productivity, making investments in infrastructure and education, and enhancing access to credit and financial services by eliminating poverty. More employment possibilities and entrepreneurship may result from this, raising living standards and reducing poverty (Geda et al., 2001).

Third, establishing social justice and equity depends on reducing poverty. Poverty is a root cause as well as a result of social and economic inequality. Because it restricts access to chances for employment, healthcare, and education, poverty can exacerbate inequality. By ensuring that everyone has access to the resources and opportunities they need to live a full life, policymakers may promote greater social justice and equity by reducing poverty (Datt and Jolliffe., 1999).

However, governments and policymakers all around the world must deal with the essential issue of poverty reduction. Poverty hinders economic growth and development and has serious negative effects on both individuals and society. Governments may encourage greater social justice and equity and increase possibilities for people and communities to prosper by lowering poverty. As per statement of the United Nations (UN): "Poverty eradication is an indispensable requirement for sustainable development and should be a priority for all countries" (United Nations, n.d). Governments must consequently intervene to address poverty and encourage greater wealth and well-being for everybody (Bogale et al., 2005).

2. Literature Review

We have evaluated the studies on the causes of rural poverty in this section. A survey of studies on the causes of poverty is shown in Table 1.

Reference(s)	Country/Area	Period/Observations	Methodology	Main Results
Shirazi (1995)	Pakistan	1991-92	OLS	The findings of the study showed that education, size of household, location, and employment status were significant determinants of poverty in Pakistan.
Coulombe & McKay (1996)	Mauritania	1988	Multivariate regression analysis	The results showed that household size, education, and the gender of the household head were among the most significant predictors of poverty.
Grootaert (1997)	Cote d'Ivoire	1985	OLS	The results indicate that poverty was linked to a lack of education, limited access to productive assets, and low levels of agricultural productivity.

Datt et al. (1998)	Egypt	1990	Probit regression model and OLS	According to the findings, living in rural areas and having a higher household size were major predictors of poverty in Egypt. According to the study, access to
Datt & Jolliffe (1999)	Egypt	1997	OLS	essential amenities like water and sanitation as well as a lack of education and employment are all strongly associated with family poverty.
Datt et al. (2000)	Mozambique	1996-1997	Probit model	According to the study, household size, adult education levels, and geographic location all have an impact on poverty in Mozambique, with homes in the north being more likely to be poor than those in the south. According to the findings, poverty
Geda et al. (2001)	Kenya	1994	Probit model	is more common in rural areas, in households with female heads of household, and in bigger households. Access to credit was found to have a positive impact on lowering poverty, whereas education and household income showed a negative correlation
Mukherjee & Benson (2003)	Malawi	1998	OLS	with poverty. The results indicated that a lack of education, large size of households, and poor health were significant determinants of poverty in Malawi. The study identifies various
Tufail & Sheikh (2023)	Pakistan	2022	OLS	factors affecting women's empowerment in South Punjab, emphasizing the positive impact of education, income, and access to credit in the agricultural sector. It recommends measures to enhance these aspects.

Source: Authors' Compilation

After reviewing the factors that affect reducing poverty is the goal of this section. Various nations place varied emphasis on various factors that influence reducing poverty. In earlier literature, there are also several policies to lessen poverty. Despite extensive literature on factors influencing poverty reduction globally, there is a notable research gap concerning the specific dynamics within South Punjab, Pakistan's agricultural sector. While prior studies have explored diverse factors impacting poverty alleviation, there is a scarcity of empirical evidence focused on the agricultural landscape in this region. The research, as outlined, delves into novel dimensions by concentrating on Asset ownership prevalence among both men and women, Women's empowerment index, and various access to services variables. Furthermore, the utilization of Poverty gap index and Squared-poverty gap index as measurement tools adds a distinct quantitative layer to the investigation. This research aims to contribute substantially to the existing literature by shedding light on the unique factors influencing poverty in South Punjab's agricultural sector, offering valuable insights for both policymakers and practitioners aiming to implement effective poverty reduction strategies in this specific context.

To the best of our knowledge, Multan, Bahawalpur, and DG Khan divisions have not been the subject of any studies. It is important to note that other research have looked into the restricted determinants of poverty alleviation, as revealed by our analysis of the numerous literature reviews. These studies didn't pay

as much attention to so many different aspects, but our study was thorough and used four different categories of variables, including socio-demographic, economic, asset ownership, and women's empowerment determinants. In addition, we conducted our research using data from three divisions: Multan, Bahawalpur, and DG Khan.

3. Data and Methodology

In selecting our sample of 900 respondents, which involved 300 participants from each of the three divisions (Multan, Bahawalpur, and DG Khan), we employed a combination of stratified and simple random sampling. First, we divided each division into districts. Then, from each division, we selected one district—Dera Ghazi Khan, Bahawalpur, and Multan. Within each chosen district, we conducted simple random sampling to select 300 households from the rural areas. This approach ensured that we had a geographically diverse yet representative sample from each division, allowing us to draw meaningful insights from the study.

4. Model Specification and Methodology

4.1 An Elementary Data Analysis

For explaining and interpreting the data obtained from the multidimensional field survey of the current study, elementary data analysis is necessary at the initial stage. This analysis is so important because it permits the construction of formal quantitative models by allowing the researchers to formulate or make null hypotheses against the alternative hypothesis that are tested in the analytical work.

Status	South Punjab		Multan		Bahawalpur		DG Khan	
	Men	Women	Men	Women	Men	Women	Men	Women
Poor	2571	2225	830	630	578	579	1163	1017
Non-Poor	778	685	212	155	267	252	299	277
Total	3349	2910	1042	785	845	831	1462	1294

Table 2: Distribution of Economic Status with respect to Gender

Source: Authors' Estimation

Table 2 shows the number of men and women categorized by their economic status (poor or non-poor) in three divisions of South Punjab, namely Multan, Bahawalpur, DG Khan. The totals for each district are also provided. The total number of men in South Punjab is 3349, out of which 2571 are categorized as poor and 778 are non-poor. The total number of women in South Punjab is 2910, out of which 2225 are categorized as poor and 685 are non-poor. In Multan, there are 1042 men and women combined, out of which 830 men and 630 women are poor while 212 men and 155 women are non-poor. In Bahawalpur, there are 1676 men and women combined, out of which 578 men and 579 women are poor while 267 men and 252 women are non-poor. In DG Khan, there are 2756 men and women combined, out of which 1163 men and 1017 women are poor while 299 men and 277 women are non-poor. It highlights the higher proportion of poor individuals, especially women, in the region, indicating a need for targeted policies to address poverty in the area.

4.2 Econometric Analysis of the Determinants of Poverty

After making the elementary analysis, we have made an econometric analysis of the determinants which would affect the poverty. Many micro and macroeconomic variables determine the poverty. Within the microeconomic context, as concerned and is the major part of our study, the alternative simplest techniques are econometric methods, in terms of regression analysis. The ordinary least square (OLS) regression analysis is used to examine the influence on poverty.

4.3 Model Specification

This section shows the determinants of poverty based on two models: the poverty gap model and the square-poverty gap model. These models aim to predict poverty based on several socio-demographic, economic, gender asset ownership, and women's empowerment factors. The poverty gap model is given as.

 $PGI = f(AGE, MS_i, DEPB, DHWP, DHHU, ASDW, ASF, EDU, EMPS_i, AOPW, AOPM, WOEI)$ (1)

The econometric form of the model is:

 $PGI = \alpha_0 + \alpha_1 AGE + \alpha_2 MS_i + \alpha_3 DEPB + \alpha_4 DHWP_i + \alpha_5 DHHU + \alpha_6 ASDW + \alpha_7 ASF + \alpha_8 EDU + \alpha_9 EMPS_i + \alpha_{10} AOPW + \alpha_{11} AOPM + \alpha_{12} WOEI + \varepsilon$ (2)

Similarly, the squared-poverty gap model is.

 $SPGI = f(AGE, MS_i, DEPB, DHWP, DHHU, ASDW, ASF, EDU, EMPS_i, AOPW, AOPM, WOEI)$ (3)

 $SPGI = \beta_0 + \beta_1 AGE + \beta_2 MS_i + \beta_3 DEPB + \beta_4 DHWP_i + \beta_5 DHHU + \beta_6 ASDW + \beta_7 ASF + \beta_8 EDU + \beta_9 EMPS_i + \beta_{10} AOPW + \beta_{11} AOPM + \beta_{12} WOEI + \varepsilon$ (4)

 Table 3: Variables' Abbreviation, Description and Measurement

Variables	Abbreviation	Description of Variables	Measurement
Age	AGE	Age of household members (in years)	Continuous
		Marital Status	
Married	MS1	Whether the person is married or not	1 for married
			0 for others
Unmarried	MS2	Whether the person is unmarried or not	1 for unmarried
D. 1	1400		0 for others
Divorced	MS3	Whether the person is divorced or not	1 for divorced
Widowed	MS4	Whather the perception Widowed or not	0 for others 1 for widowed
widowed	M54	Whether the person is Widowed or not	0 for others
Education level	EDU	Number of years of schooling	Continuous
	EDU	Employment Status	Continuous
Employee	EMPS1	Whether the person is an employee or not	1 for employee
Employee	ENIFSI	whether the person is an employee of not	0 for others
Employer	EMPS2	Whether the person is the employer or not	1 for employer
Linpioyei	LIVII 52	whether the person is the employer of not	0 for others
Unpaid family worker	EMPS3	Whether the person is an unpaid family worker or	1 for unpaid
enpute fulling worker			family worker
			0 for others
Other workers	EMPS4	Whether the person is other worker (such as a part-	1 for other
		time worker) or not	workers
		,	0 for others
Unemployed	EMPS5	Whether the person is unemployed or not	1 for unemployed
			0 for others
Poverty gap index	PGI	It is the ratio in which the per-capita Income of poor	Continuous
		people falls below the poverty line	
Squared-poverty gap index	SPGI	It is the square of the poverty gap index	Continuous
Women's overall	WOEI	It is the average of women's economic, social,	Continuous
empowerment index		familial and political empowerment index	
Asset ownership prevalence	AOPW	It is the ratio of the total number of females owners	Continuous
among women		to the total number of females in a household It is the ratio of the total number of males owners to	Continuous
Asset ownership prevalence among men	AOPM	the total number of males in a household	Continuous
Dependency burden	DEPB	Total number of non-earners to total household	Continuous
Dependency burden	DLID	members	Continuous
Distance of home from the	DHWP	In kilometers	Continuous
workplace	211.11		Continuous
Distance of home from the	DHHU	In kilometers	Continuous
health unit			
Access to safe drinking	ASDW	Whether the people have access to safe drinking	1 for yes
water		water or not	0 for no
Access to sanitation facility	ASF	Whether the people have access to sanitation	1 for yes
		facilities or not	0 for no

Source: Authors' Compilation

5. Results and Discussions

The causes of poverty are examined in this section. The factors that determine poverty are broken down into three groups: socio-demographic factors, economic factors, and asset ownership and empowerment indices. In the first category, social and demographic aspects are covered, economic factors are covered in the second category, and asset ownership factors and empowerment indices are covered in the third category.

Variables		Unstandard	lized Coefficients	Standar	rdized Coeffi	cients
Variables		Coefficient	Standard Error	Coefficient	t Statistic	Significanc
Intercept		.289	.023		12.686	.000
	S	ocio-demograp	ohic Determinants		•	
Age		.005	.002	.232	2.526	.012
	Married	-1.082	.232	599	-4.664	.000
Marital Status	Unmarried	.006	.046	.007	.120	.904
Marital Status	Divorced	002	.001	177	-3.106	.002
	Widowed	743	.131	714	-5.670	.000
Dependency Bu	ırden	.973	.186	.421	5.236	.000
Distance of hor	ne from Workplace	.014	.007	.128	2.068	.040
Distance of hor	ne from health unit	.089	.031	.059	2.853	.004
Access to Safe Drinking Water		241	.140	106	-1.724	.086
Access to Sanitation Facility		240	.137	022	-1.747	.081
Years of Schooling		010	.005	127	-2.166	.031
		Economic l	Determinants			
	Employee	123	.036	077	-3.415	.001
	Employer	076	.049	056	-1.544	.123
Employment Status	Unpaid Family Worker	.027	.010	.036	12.686 2.526 -4.664 .120 -3.106 -5.670 5.236 2.068 2.853 -1.724 -1.747 -2.166 -3.415 -1.544 2.719 910 9.185 -4.166 -1.812 6.503	.007
Status	Other	d -1.082 $.232$ 599 -4.66 ried $.006$ $.046$ $.007$ $.120$ ed 002 $.001$ 177 -3.10 //ed 743 $.131$ 714 -5.67 //ed $.973$ $.186$ $.421$ 5.236 //e $.014$ $.007$ $.128$ 2.068 //e $.014$ $.007$ $.128$ 2.068 //e $.031$ $.059$ 2.853 241 $.140$ 106 -1.72 240 $.137$ 022 -1.74 010 $.005$ 127 -2.16 Economic Determinants 076 $.049$ 056 -1.54 Worker $.027$ $.010$ $.036$ 2.719 007 $.007$ 051 910 $.307$ $.033$ $.139$ 9.185 sseet Ownership and Women Empowerment Determinantsng Women 013 $.003$ 055 -4.166 ng men 041 $.023$ 105 -1.817	910	.364		
	Unemployed	.307	.033	.139	9.185	.000
	Asset Owners	hip and Wome	n Empowerment De	eterminants		
Asset Ownersh	ip Prevalence among Women	013	.003	055	-4.166	.000
Asset Ownership Prevalence among men		041	.023	105	-1.812	.071
Overall Womer	n Empowerment	2.885	.444	1.222	6.503	.000
		Model S	Summary			
Model		R-Square		Durbin-Wa	tson	
Source: Authors		.273		1.653		

Source: Authors' Estimations

Tables 4, 5, 6, and 7 illustrate the determinants of the poverty gap index in the South Punjab Province, Multan division, Bahawalpur division, and DG Khan division respectively. And Tables 8, 9, 10, and 11 show the factors affecting the square of the poverty gap in the South Punjab Province, Multan division, Bahawalpur division, and DG Khan division correspondingly. The dependent variable is the poverty gap and the square of the poverty gap. The independent variables are divided into three categories: socio-demographic determinants (include age, marital status, dependency burden, the distance of home from workplace, the distance of home from health unit, access to safe drinking water, access to a sanitation facility, and years of schooling), economic determinant (include employment status), asset ownership (include asset ownership prevalence among women and asset ownership prevalence among men) and overall women empowerment determinants.

		<u>Unstan</u> dard	ized Coefficients	Stand	ardized Coe	fficients
Variables		Coefficient	Standard Error	Coefficient	t Statistic	Significance
Intercept		.130	.081		1.602	.110
	S	ocio-demographic	Determinants			
Age		.003	.001	.298	3.265	.001
Marital Status	Married	117	.037	076	-3.171	.002
	Unmarried	.015	.015	.065	.995	.321
	Divorced	010	.003	197	-3.201	.002
	Widowed	185	.061	186	-3.043	.003
Dependency E	Burden	.005	.002	.132	2.209	.028
Distance of ho	ome from Workplace	.022	.005	.557	4.362	.000
Distance of home from health unit		015	.003	665	-5.296	.000
Access to Safe Drinking Water		020	.004	394	-4.915	.000
Access to San	ess to Sanitation Facility		.010	1.139	6.059	.000
Years of Scho	oling	416	.081	412	-5.114 .000	
		Economic Dete	erminants			
Employment	Employee	375	.102	474	-3.693	.000
Status	cooling 416 .081 412 -5.11 Economic Determinants t Employee 375 .102 474 -3.69 Employer 202 .057 443 -3.50	-3.507	.001			
	Unpaid Family Worker	1.775	.293	1.139	ent t Statistic 1.602 3.265 -3.171 .995 -3.201 -3.043 2.209 4.362 -5.296 -4.915 6.059 -5.114 -3.693 -3.507 6.059 -1.176 3.939 -4.362 -5.296 -4.915 -4.915 -4.915 -4.915 -4.362 -5.296 -4.915 -4.915	.000
Distance of ho Access to Safe Access to Sani Years of Schoo Employment Status Asset Ownersh Asset Ownersh Overall Wome	Other	031	.026	104	-1.176	.241
	Unemployed	.769	.195	.745	3.939	.000
	Asset Owners	nip and Women E	mpowerment Dete	rminants		
Asset Owners	hip Prevalence among Women	665	.152	557	-4.362	.000
Asset Owners	set Ownership Prevalence among men		.086	665	-5.296	.000
Overall Wome	en Empowerment	600	.122	394	-4.915	.000
		Model Sun	imary			
Model		R-Square		Durbin-W	atson	
		.294		1.946	5	

e n

Source: Authors' Estimations

Age is the first factor in the sociodemographic category. In South Punjab Province, Multan Division, and Bahawalpur Division, age is strongly correlated with both the poverty gap and the square of the poverty gap, which is highly statistically significant in all locations and models with the exception of the Bahawalpur Division square of the poverty gap model. Age, however, has a negative relationship with both the poverty gap and its square, which is highly statistically significant.

The possible reasons behind the positive relationship may be that most of the people in South Punjab, Multan division, and Bahawalpur division are working in the public sector, and they get will get pensions in old age so in old age the probability of being poor becomes low. They may use their pension to start a new business or to fulfill their needs in old age. While the results show a negative impact on the DG Khan division because the DG Khan division is poorer as compared to the other divisions. Most of the people in the DG Khan division are a laborer they do not receive pensions in old age which increases the chances of being poorer. They are unable to work in old age, so they are more likely to spend their savings due to their needs. The result shows that people aged more than 60 years increase the probability of being poor by four percent (Evans et al., 2007). Our results are in line with the following studies Sherlock, 2000; Evans, 2007).

Table o: Del	terminants of Poverty Gap in M		lized Coefficients	Standard	lized Coeffici	ents
Variables			Standard Error	Coefficient	t Statistic	Significance
Intercept		.235	.122		1.927	.055
		Socio-demog	raphic Determinants	5		
Age		.003	.001	.101	4.323	.000
	Married	028	.015	107	-1.877	.062
Monital Stat	Unmarried	.032	.012	.182	2.740	.007
Marital Stat	Divorced	001	.000	183	-3.248	.001
	Widowed	080	.055	063	-1.459	.145
Dependency	y Burden	.007	.001	.216	9.208	.000
Distance of	home from Workplace	.232	.173	.060	1.336	.182
Distance of home from the health unit		.473	.122	.173	3.866	.000
Access to Sa	afe Drinking Water	885	.294	118	-3.008	.003
Access to Sa	anitation Facility	-1.593	.383	344	-4.159	.000
Years of Sch	hooling	010	.005	142	-2.316	.021
		Econom	ic Determinants			
	Employee	128	.067	043	-1.909	.056
	Employer	064	.036	046	-1.804	.071
	¹ Unpaid Family Worker	.061	.056	.025	1.107	.268
t Status	Other	044	.007	158	-6.638	.000
Distance of ho Access to Safe Access to San Years of Schor Employmen t Status U	Unemployed	.003	.001	.221	2.436	.016
	Asset Owne	rship and Wo	men Empowerment	Determinants		
Asset Owne	ership Prevalence among Women	009	.004	073	-2.652	.008
Asset Owne	ership Prevalence among men	318	.164	044	-1.939	.053
Overall Wo	men Empowerment	028	.003	218	-9.381	.000

Model Summary R-Square Model Durbin-Watson .284 1.838

Source: Authors' Estimations

The second variable in the socio-demographic category is marital status. Married, divorced, and widowed are negatively associated with the poverty gap and square of the poverty gap which is highly statistically significant in all places and all models except the married group of DG Khan division in the square of the poverty gap model, divorced group of Bahawalpur division in poverty gap model, and windowed group of Bahawalpur and DG Khan division in the square of the poverty gap model. while the unmarried group is positively related to the poverty gap and the square of the poverty gap which is highly statistically significant except in South Punjab Province. It has been proven that marriage has many benefits in terms of economics (Waite and Gallagher, 2000).

Because marriage usually involves a potential earner at home, it appears that marriage can increase the economic well-being of family members. Married women living in male-headed households are more likely to enjoy greater family income because these families have a higher number of earning members and especially a larger number of earning men. A marital relationship for a long period can also mean a more stable income and a greater number of consumable goods such factors can restrict the range of economic difficulties facing a recession in the economy. Additionally, married people can also be more easily able to get help from relatives in hard situations (Lerman, 2002).

X 7 * - 1 - 1		Unstandar	dized Coefficients	Standar	dized Coeffi	cients
Variables		Coefficient	Standard Error	Coefficient	t Statistic Significand	
Intercept		165	.465		355	.723
	S	Socio-demographi	c Determinants			
Age		.006	.003	.077	1.884	.060
	Married	035	.007	123	-5.050	.000
Marital Status	Unmarried	.317	.139	.070	2.270	.023
Marital Status	Divorced	174	.066	064	-2.620	.009
	Widowed	194	.129	068	-1.505	.132
Dependency l	Burden	.315	.158	.047	1.993	.046
Distance of h	tance of home from Workplace .182 .084 .058 2		2.158	.031		
Distance of home from the health unit		.227	.131	.041	1.732	.083
Access to Safe Drinking Water		014	.009	047	-1.649	.099
Access to Sanitation Facility		014	.008	050	-1.742	.082
Years of Scho	ooling	005 .001088 -3.660 .		.000		
		Economic Det	erminants		· · ·	
	Employee	005	.002	065	-2.637	.008
	Employer	-1.055	.409	122	-2.577	.010
Employment Status	Unpaid Family Worker	.105	.068	.050	1.562	.118
Status	Other	-2.144	.694	127	-3.089	.002
	Unemployed	2.076	.904	.199	2.296	.022
	Asset Owners	hip and Women F	Empowerment Deter	rminants		
Asset Owners	ship Prevalence among Women	757	.289	123	-2.617	.009
Asset Ownership Prevalence among Men		006	.003	040	-1.721	.085
Overall Wom	en Empowerment	049	.011	103	-4.468	.000
		Model Su	nmary			
Model		R-Square		Durbin-Wats	son	
		.245		1.784		

Source: Authors' Estimations

Due to the specific skills and duties, long-term marriage commitment can increase household efficiency and productivity. The total output of the married couple is greater than the output of unmarried people. The expectations of the married couple encourage them to save more for their children, to buy a large house and other assets (Anyanwu, 2014).

A married couple can achieve the same utility with lower joint expenditure than the sum of their expenditure if living separately due to the economies of scale in consumption. From the employment of their partner, married people can get more benefits such as medical facilities and life insurance. Married people are more likely to earn than unmarried ones. After marriage, the social network of the people expands which results in additional opportunities that increase their savings (Grinstein-Weiss et al., 2006). Married people are less likely to waste their money and time outside the home. Unmarried people are more likely to live in poverty than married people. Married people have more savings to buy assets as compared to unmarried (Hirschlet al., 2009).

The negative impact of divorced and widowed people on poverty may be because when people help divorced and widowed people, they may bring up their children and may have chances to save their grants, and charity given by other people.

		<u>Unstan</u> dar	dized Coefficients	Standard	lized Coeffic	ients
Variable		Coefficient	Standard Error	Coefficient	t Statistic	Significance
Intercept		.583	.066		8.782	.000
-		Socio-demogra	phic Determinants			
Age		.329	.160	.049	2.064	.039
Marital Statu	s Married	445	.235	103	-1.893	.059
	Unmarried	.003	.001	.118	5.227	.000
	Divorced	120	.166	031	724	.469
	Widowed	302	.107	096	-2.822	.005
Dependency	Burden	.005	.001	.155	4.299	.000
Distance of h	ome from Workplace	.088	.041	.074	2.135	.033
Distance of h	ome from the health unit	.006	.002	.088	3.862	.000
Access to Safe Drinking Water		019	.005	082	-3.603	.000
Access to Sanitation Facility		037	.004	243	-10.061	.000
Years of Scho	ooling	175	.092	046	-1.904	.057
		Economic	Determinants			
	Employee	004	.001	164	-7.109	.000
F 1	Employer	007	.001	183	-4.924	.000
Employment Status	Unpaid Family Worker	.788	.276	.159	2.859	.004
Status	Other	254	.187	032	-1.354	.176
	Unemployed	.005	.000	.249	11.070	.000
	Asset Owner	ship and Wom	en Empowerment De	eterminants		
Asset Owners	ship Prevalence among Women	004	.001	068	-3.053	.002
Asset Owners	ship Prevalence among Men	012	.005	058	-2.597	.009
Overall Wom	nen Empowerment	040	.003	303	-12.870	.000
		Model	Summary			
Model		R-Square		Durbin-Watso	'n	
		.314		1.725		

Source: Authors' Estimations

The third factor in the socio-demographic category is dependency burden. The dependency burden is positively related to the poverty gap and the square of the poverty gap which is highly statistically significant in all places and all models. The dependency burden means the number of non-earners in the family depends upon the earner member of the family. As dependency increases, it means the number of non-earner members is more than the number of earner members which means in household eaters are more and earners are fewer. So that poverty tends to increase. The dependency burden has an adverse effect on savings in less developing countries (Gupta, 1971) and (Adams, 1971). The following studies support our results Orlando and Pollack, 2000; Gupta, 1971; Adams, 1971; Ndanshau, 1998; Guzmán, 2005; Xu et al., 2022.

Table 9: Determinants of Square of Poverty Gap in Bahawalpur Division

			Unstandardized Coefficients		Standardized Coefficients		
Variables			Coefficient	Standard Error	Coefficient	t Statistic	Significance
Intercept			160	.125		-1.277	.202
		Soci	o-demograph	ic Determinants		-	
Age			.003	.002	.042	1.110	.267
Marital Status	Married		149	.078	069	-1.908	.057
	Unmarried		.039	.006	.163	6.620	.000
	Divorced		217	.105	049	-2.064	.039
	Widowed		600	.301	049	-1.995	.046

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Dependency I	Burden	.003	.001	.155	4.299	.000	
Distance of home from Workplace		.058	.027	.074	2.135	.033	
Distance of he	ome from health unit	.003	.001	.068	3.053	.002	
Access to Safe	e Drinking Water	008	.003	058	-2.597	.009	
Access to San	itation Facility	027	.002	303	-12.870	.000	
Years of Scho	ooling	293	.155	103	-1.893	.059	
		Economic Det	erminants				
Employment Status	Employee	440	.266	073	-1.653	.098	
	Employer	594	.173	086	-3.433	.001	
	Unpaid Family Worker	.187	.077	.079	2.432	.015	
	Other	.078	.049	.057	1.611	.107	
	Unemployed	.004	.000	.249	11.070	.000	
	Asset Ownersh	ip and Women E	mpowerment I	Determinants			
Asset Ownership Prevalence among Women		010	.001	268	-11.393	.000	
Asset Ownership Prevalence among Men		004	.001	104	-4.495	.000	
Overall Women Empowerment		.882	.443	.113	1.991	.047	
		Model Sur	nmary				
Model		R-Square		Durbin-W	atson		
		.343		1.617			

Source: Authors' Estimations

The fourth and fifth factors in the socio-demographic category are the distance of home from the workplace and the health unit. The distance of home from the workplace and health unit is positively related to the poverty and the square of the poverty gap which is highly statistically significant in all places and all models except the distance of home from the workplace of Multan division in poverty gap model and the distance of home from health unit of DG Khan division in the square of poverty gap model. The more the distance of home from the workplace and health unit the more will be the transportation cost which may have an adverse effect on savings that leads to increases the poverty.

Table 10: Determinants of Poverty Gap in DG Khan Division

		Unstandard	ized Coefficients	Standardized Coefficients		
Variables		Coefficient	Standard Error	Coefficient	t Statistic S	Significance
Intercept		.687	.038		18.295	.000
		Socio-demograpl	hic Determinants		· · ·	
Age		001	.000	075	-2.837	.005
	Married	025	.012	058	-2.094	.036
Marital Status	Unmarried	.191	.032	.110	5.950	.000
Marital Status	Divorced	052	.003	310	-16.397	.000
	Widowed	005	.001	103	-4.990	.000
Dependency I	Burden	.115	.021	.102	5.530	.000
Distance of h	ome from Workplace	.034	.002	.316	16.673	.000
Distance of home from health unit		.003	.001	.088	4.263	.000
Access to Saf	e Drinking Water	003	.000	226	-11.953	.000
Access to Sar	itation Facility	341	.076	111	-4.489	.000
Years of Scho	ooling	-1.196	.176	169	-6.786	.000
		Economic D	eterminants			
	Employee	020	.014	029	-1.417	.157
Employment Status	Employer	077	.013	130	-6.141	.000
	Unpaid Family Worker	.051	.010	.107	4.979	.000
	Other	068	.138	009	488	.625
	Unemployed	.672	.114	.147	5.873	.000
	Asset	Ownership and Women	Empowerment Deter	rminants		

Asset Ownership Prevalence among Women	002	.000	151	-8.084	.000
1 0	002	.000	203	-10.711	.000
Asset Ownership Prevalence among men					
Overall Women Empowerment	.264	.049	.132	5.346	.000
	Model Sur	nmary			
Model	R-Square		Durbin-Wa	tson	
	.381		1.972		

Source: Authors' Estimations

The sixth and seventh variables in the socio-demographic category are access to safe drinking water and access to a sanitation facility. Access to safe drinking water and sanitation facilities has a negative impact on the poverty gap and the square of the poverty gap which is highly statistically significant in all places and all models. If safe drinking water is available, it may reduce the cost of filtration which leads people to save more of their income. If people access the sanitation facility easily it protects people from diarrheal diseases like typhoid, polio, cholera, etc. Fewer diseases mean less cost of medication, as a result, people can save more either to buy any assets or to fulfill their basic needs which will, in turn, reduce the poverty.

		Unstandardized Coefficients		Standardized Coefficients			
Variables		Coefficient	Standard Error	Coefficient	t Statistic	Significance	
Intercept		.222	.014		16.312	.000	
	S	ocio-demograp	hic Determinants			•	
Age		002	.001	108	-4.091	.000	
Manifed States	Married	060	.019	090	-3.228	.001	
	Unmarried	.122	.151	.014	.807	.420	
Marital Statu	s Divorced	058	.033	036	-1.767	.077	
	Widowed	042	.050	015	847	.397	
Dependency Burden		.006	.001	.149	7.573	.000	
Distance of h	ome from Workplace	.363	.041	.227	8.764	.000	
Distance of home from health unit		.007	.005	.030	1.406	.160	
Access to Safe Drinking Water		016	.005	078	-3.554	.000	
Access to Sanitation Facility		007	.004	043	-1.935	.053	
Years of Schooling		073	.018	105	-4.076	.000	
		Economic I	Determinants				
	Employee	001	.000	156	-5.693	.000	
	Employer	024	.004	158	-5.461	.000	
Employment Status	Unpaid Family Worker	.059	.035	.030	1.652	.099	
Status	Other	027	.008	074	-3.533	.000	
	Unemployed	.025	.008	.065	3.379	.001	
	Asset Owners	nip and Womer	n Empowerment De	eterminants			
Asset Owners	ship Prevalence among Women	117	.019	127	-6.027	.000	
Asset Ownership Prevalence among Men		072	.016	097	-4.532	.000	
Overall Women Empowerment		003	.000	165	-8.897	.000	
		Model S	Summary				
Model		R-Square		Durbin-Wat	son		
		.367		1.597			

 Table 11: Determinants of the Square of Poverty Gap in DG Khan Division

Source: Authors' Estimations

The last variable in the socio-demographic category is years of schooling or education level. The years of schooling have a negative impact on the poverty gap and the square of the poverty gap which is highly statistically significant in all places and all models. Human capital is an important factor to eliminate poverty. According to the theory of human capital, investment in education leads to the development of

human capital. The formation of human capital can increase economic growth. Training, skills, and productive knowledge along with education convert human into valuable human capital. That will increase the productivity and earnings of the people (Rosen, 1989). According to the basic needs approach established in the mid-1970s (International Labour Office, 1976), education is considered a basic need, and it will help to fulfill the other basic needs that will improve the standard of living (Streeten, 1977). Education has an indirect effect on poverty through the fulfillment of basic needs, for example better health facilities, shelter, clothes, food, and freshwater for drinking and sanitation facilities. It also affects the fertility decision of the family, the welfare of the family, and the health. The fulfillment of basic needs in turn increases productivity that yields higher wages. More education means reducing poverty (Noor, 1980; Cochrane, 1988; Jeffery and Basu, 1996). The following studies are in line with our results: Rosen, 1989; Streeten, 1977; Noor, 1980; Cochrane, 1988; Jeffery and Basu, 1988; Jeffery and Basu, 1996). The following studies are in line with our results: Rosen, 1989; Streeten, 1977; Noor, 1980; Cochrane, 1988; Jeffery and Basu, 1988; Jeffery and Basu, 1996).

The second category of independent variables is economic determinants. The variable in the economic determinants category that can affect the poverty level is the employment status of people. The employee, employer, and other employment status of people has a negative impact on the poverty gap and the square of the poverty gap in all places which is highly statistically significant except in the other employment status of South Punjab Province and Bawalpur division in the poverty gap model and the square of the poverty gap model and other employment status of DG Khan division in the poverty gap model. While unpaid family workers and an unemployed status of people have a positive impact on the poverty gap and the square of the poverty gap which is highly statistically significant in all places and models except in the unpaid family worker of Multan division in the poverty gap model and the square of the poverty gap model. The expected salary of employees, employees and other employees such as part-time work is high as compared to the unpaid family worker and unemployed people. So that they may have more chances to invest in education, and business and they can buy a house and other asset which may reduce the probability of being poor. On the other hand, unpaid family workers and unemployed people do not receive a salary so they have no chances to invest in education, business and so on which may increase their probability of being poorer. Those who are employed either in the public or private sector have a better chance of eradicating poverty (Dunga and Sekatane, 2014). Employment is one of the major factors in dealing with poverty (ILO, 2008). Other studies that found a similar relationship between poverty and employment are Islam 2004; ILO, 2008; Hull 2009; Dunga and Sekatane, 2014.

The last category of the independent variable is asset ownership prevalence among women and women empowerment. The asset ownership prevalence among women and men is negatively associated with the poverty gap and the square of the poverty gap which is highly statistically significant in all places and all models. If males and females of the family have more assets under their ownership, they have more sources of income. When they have more income they can get a better education, save more, and invest in a business that will increase the living standard of their families which ultimately reduces poverty. Accumulation of assets is an important source of eradicating poverty (Coulombe and McKay, 1996).

Women empowerment is also negatively related to the poverty gap and the square of the poverty gap which is highly statistically significant in all places and all models. Women empowerment is the procedure to permit freedom to an individual or group of the individual so that they can freely take their decisions and work hard to achieve their goals (Pratto, 2016). The following studies show that women's empowerment affects the education, health, and standard of living of their families which may affect the employment status that leads to eradicating poverty: Alano & Hanson, 2018; Becker, 2009; Bharadwaj et al., 2020; Bueno & Morefield, 2017; Rahman et al., 2017.

5. Conclusion and Policy Recommendations

The elements that reduce poverty in South Punjab have been looked at in the study. The study investigated how poverty affected socio-demographics, economic standing, and wellbeing. According to the study, a number of variables, including age, marital status, dependency burden, distance of home from a health center and the place of employment, access to clean water and sanitation facilities, employment status,

education, asset ownership prevalence among men and women, and women's empowerment, have an impact on poverty in South Punjab. Because younger or older people may have less economic options and have a harder time getting employment, age plays a crucial role in poverty. Marital status is also important since single people may have fewer income sources and are more susceptible to economic shocks. The amount of dependents in a home, such as children and elderly relatives, is referred to as the dependency burden. Higher dependency burdens put a home under more financial stress and make it harder for it to spend money on things like health care, education, and other necessities. Access to healthcare services is significantly impacted by a household's proximity to a healthcare facility. Families in remote areas may have limited access to healthcare services, which has a negative impact on health outcomes, raises healthcare expenses, and lowers productivity. In turn, this increases inequality and adds to poverty. Another significant element that has an impact on poverty in South Punjab is access to clean drinking water and sanitary services.

Waterborne illnesses put households without access to clean drinking water at risk for higher healthcare expenses and decreased productivity. Poor sanitary conditions also contribute to health issues like diarrhea and other infectious diseases, which worsen poverty. Another significant element that affects poverty in South Punjab is the number of years of education. Greater-educated households typically have greater wages and more work options, making education a key factor in economic and social mobility. Economic prospects are restricted and poverty is maintained over generations when people lack education. South Punjab has a largely agrarian economy, and a large number of people work in the agricultural industry. However, the industry is characterized by low productivity, sporadic employment, and a shortage of finance, which worsens poverty. In South Punjab, there is a gender difference in the prevalence of asset ownership, with women owning less than males do. Cultural traditions and legislative restrictions that restrict women's access to land and property are a major cause of this gender difference. Because it increases their ability to make decisions, gain access to resources, and seize economic opportunities, women's empowerment is also a crucial component in the fight against poverty. But there are still gender differences in education, health, and labour force involvement, which restricts women's agency and keeps them in poverty.

5.1. Policies Implications to Alleviate Poverty

Many elderly persons depend on their family or friends for care and need assistance with daily duties. Policies that help carers, such paid family leave or respite care, may lessen the financial and emotional burden of caregiving and enhance the wellbeing of both carers and care recipients. Financial assistance and resource access policies may lessen poverty among widowed people. Widowed people may get crucial support through Social Security survivor benefits, and measures that promote access to affordable housing and healthcare may also contribute to reducing poverty in this population.

Policies that support people who are leaving marriages may lower poverty in this population. People going through a divorce may need to have access to legal assistance and financial counseling. Policies that support access to jobs and affordable healthcare may also assist lower divorce-related poverty. Policies that encourage economic security and retirement planning may lessen poverty among elderly couples. Seniors receive critical assistance from Social Security, Medicare, and Medicaid, and measures that strengthen these programmes may help to lower poverty among this population. The financial security of older couples may also be supported by other policies, such as programmes for cheap housing. Offering quality childcare at a reasonable price may ease the financial strain on families with small children. Subsidies for low-income families, tax breaks for parents who are also working, and assistance for early childhood education initiatives all fall under this category.

In order to help low-income people who live distant from medical facilities, governments and nonprofit organisations must set up mobile health clinics. Mobile clinics offer treatments like routine physicals, vaccinations, and preventive care. Governments must fund transport for low-income persons who must travel a long distance to get healthcare services. This includes supporting public transit, offering ride-sharing services, or working with local organisations to provide transportation for medical appointments.

The ability for employees to work from home or other remote places is one way that policies that support telecommuting and flexible work schedules may help the battle against poverty. This may result in reduced travel expenses and commuting times, as well as more freedom for staff members who are in charge of providing care for others. For communities to have access to sanitary facilities and clean drinking water, governments must invest in the infrastructure for water and sanitation. This covers funding for water treatment facilities, distribution networks, latrines, and other waste disposal methods. To make it simpler for them to access sanitary facilities and safe drinking water, low-income households may be eligible for subsidies and financial aid. To fund water and sanitation initiatives, there are microfinance programmes, grants for the construction of restrooms and other sanitary facilities, and water bill subsidies.

By expanding the number of people who have access to the workforce, policies that encourage employment growth may assist to reduce poverty. This include subsidies for infrastructure projects that create jobs, tax advantages for companies that do so, and programmes that encourage small company growth. Unemployment assistance programmes may be able to help those who have lost their jobs but are having problems finding new employment. This covers both financial rewards and help finding a job, like career coaching and job placement services.

Financial aid and support programmes for low-income students may enable more people to enrol in higher education. This category includes student loan repayment plans as well as grants and scholarships. Supportive legislation for community colleges and initiatives that offer vocational training may also assist people in finding stable employment and wage increases. Through microfinance schemes, women's access to credit and financial services may enable them to launch their own businesses and amass assets, thus decreasing poverty. Policy changes that expand women's economic prospects may help to lower household poverty. This includes initiatives that encourage women to establish their own businesses and have access to capital and markets.

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