



Comparative Study of Rural Poverty and Quality of Life in Inhabitants of Two Districts in Peru

Jorge Luis Saavedra-Coronel^{a*}

^a *Graduate School, Universidad César Vallejo, Peru.*

Author's contribution

The sole author designed, analyzed, interpreted and prepared the manuscript.

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ABSTRACT

Poverty is a social problem that has affected millions of societies on the planet. Quality of life standards is as diverse as each person's perception of them. The objective of this research was to describe to what extent and how rural poverty affects the quality of life of the inhabitants in the districts of Ongón and Uray-Pataz, 2022. The research methodology was applied, with a quantitative approach, and a non-experimental design with causal and cross-sectional correlational scope. The variables considered were rural poverty and quality of life. The population was made up of 1250 inhabitants of the district of Ongón and 2048 inhabitants of the district of Uray-Pataz, 2022, and simple random sampling. The sample was 340 inhabitants of both districts. The survey technique was used and the questionnaire as an instrument. There was a significant influence of rural poverty on the quality of life of the inhabitants in the districts of Ongón and Uray-Pataz, which suggested a decrease in rural poverty contingent on an improvement in the quality of life of the population. Rural poverty among the inhabitants was at a good to a regular level associated with aspects of family farming, social protection, sustainable management, rural non-agricultural employment and integrated infrastructure packages in the districts, and access to health, food, and sanitation services. The quality of life of the inhabitants was located at a good

*Corresponding author: Email: jsaac@ucvvirtual.edu.pe;

level to regulate linked to physical, psychological, social, and environmental aspects, access to electricity services. The influence of rural poverty and the quality of life due to its physical, social, and environmental dimensions in the inhabitants of the district of Ongón and Urcabamba, Pataz, were evident.

Keywords: Poverty; quality of life; access to services; perception.

1. INTRODUCTION

At the global level, the need to study poverty in the rural context related to the socioeconomic development of the population is becoming increasingly relevant, in this regard the World Health Organization (WHO) [1] 2019, defines the quality of life as the way in which the individual perceives the place he occupies in the cultural environment and in the value system in which he lives, as well as in relation to their objectives, expectations, criteria, and concerns. All this is nuanced, of course, by their physical health, psychological state, degree of independence, their social relationships, environmental factors, and their personal beliefs [2]. The standards of quality of life are as diverse as the perception that each person has about them, considering that it is a highly subjective term, it is striking to raise the possible relationship between this element and rural poverty, since inevitably the expression of the life of each person is projected in his environment, in how he manages his environment [3]. Poverty is a social problem that has affected millions of societies on the planet and is a phenomenon that has lagged and transformed the world in which, one in three people around the world is poor [4].

More than 123 million people live in rural areas of Latin America and the Caribbean (LAC), of whom 50 million work, with rural employment supporting one in five people working in the region. Poverty rates (45.7%) and extreme poverty (21.7%) in rural areas are two and three times higher than in urban areas [5]. According to data from the World Bank [6], approximately 120 million people live in rural territories in Latin America, that is, about 18% of the total population (638 million) of the region. However, countries have an asymmetrical behavior in terms of the spatial distribution of their inhabitants and their ways of life. For example, about 49% of Guatemala's population lives in rural areas, while in Uruguay it represents 4%. In Central America, about 40% of the population is rural, equivalent to approximately 19 million inhabitants [7-12]. More than half of the Central American population lives in poverty. However,

there are particular cases such as Panama, which, despite its high human development [13], its rural situation resembles countries with medium human development. This is due to the exclusion of indigenous groups that creates fences or poverty traps, in terms of their multiple dimensions: education, work, environment, environment and sanitation, housing, basic services and access to the internet, and health. To illustrate, in 2018 the Multidimensional Poverty Index (MPI) in the Ngäbe Buglé indigenous region was 0.469 and for Guna Yala 0.468, while in the province of Panama it was 0.037 according to the Ministry of Economy and Finance [14]. The large gaps between the MPIs mark the ethnic-territorial exclusion, within the nation with the highest economic growth in Central America, before a population that is indifferent to this social injustice [15-21].

With respect to Peru, it is specified that it is ranked 82nd out of a total of 87 countries regarding the quality of life in the world, according to a ranking made by the Numbeo database. It should be noted that this year Peru has fallen eight positions in the list since last year it was in the 74th location of the total [22-28]. This setback in the quality of life in the country could have been generated due to the economic and social impact generated by the COVID-19 pandemic [29]. To overcome poverty, the territory is the most relevant variable for the design and implementation of public development policies [30-38]. At the subnational level, there are lagging areas that can be considered territorial poverty traps, where the incidence and intensity of poverty are accentuated according to the Food and Agriculture Organization of the United Nations [39] (FAO, 2018). These conditions are evidence of territorial inequalities and political-social indifference to excluded and violated peoples, and not vulnerable as they say. The rural area of the country has always been relegated only to environmental, contemplative issues and, in greater concern, is considered a place of little project interest, forgetting that "64% -5.2 million- of the Peruvian rural population is in poverty" [40]. This problem is increasing more and more due to the centrality of services and

opportunities that exists in many cities, leaving the rural context conceptually as non-urban and even under the "residual" notion, which leads us to question whether something is really being done to break this gap causing a disintegration that consequently affects the lack of promotion of public policies and social programs of the different entities.

For the National Institute of Statistics and Informatics INEI [41], in the La Libertad region poverty levels are 23.6%, also in the 2018 provincial and district monetary poverty map of Peru, there was an increase in poverty in the highlands of the country. Despite the decrease in poverty that occurred between 2013 and 2018, which was from 23.9% to 20.5% at the district level, having reflected a considerable decrease in poverty in certain districts, there is still approximately 10% of them have increased their poor population [42]. As for the department of La Libertad, in a poor population, the main economic activity is agriculture (60%). While in the non-poor population people work in activities such as manufacturing, where 13% of people work, 19% are engaged in the agricultural sector, and 32% in transport, commerce, and telecommunications. [43]. The present research focuses on the province of Pataz, especially in the districts of Ongón and Urpay Districts, where it has been a persistent problem for Peruvians, and for a long time, the question of its reduction has become an imperative need to achieve development. The problem of poverty has been addressed by governments from different angles, which has resulted in policies aimed at alleviating or reducing it. However, these policies have not been enough to improve the quality of life standards of the inhabitants. Since the economy of rural households in the districts of Ongón and Urpay is mainly associated with agricultural activities, which are the main source of employment of income and rarely influence the support of social programs, as well as together and a glass of milk. Labour dependence on agricultural activities is greater as households have higher levels of poverty [44-48].

Thus, human capital and household asset endowments are also factors that can make growth have better impacts on poverty reduction. They affect the ability of their members to reap the benefits of economic growth [49-52]. For this reason, it would be important to adopt a new pattern of rural development as a way to reduce poverty and increase the quality of life, promote territorial integration, address environmental

problems, and support a process of industrialization and sustained economic growth that is less vulnerable. It must also promote a different way of dealing with poverty levels, based on the recognition that, in order to reduce them, it is first necessary to prevent the model of economic growth from continuing to produce it, attacking the structural causes that promote it, one of which is the marginal and non-integrated role in the national economy of rural societies in general and the peasant sector in particular. In this context, the research question arises: To what extent and in what way does rural poverty influence the quality of life of the inhabitants of the districts of Ongón and Urpay, Pataz, [53] 2022.

Likewise, the practical justification of the study arises because the analysis is carried out in relation to how fundamental changes are occurring, both in the way they are perceived and in the way of facing the problems of poverty to improve the quality of life of the locality under study. Taking into account that, the economic growth of the province of Pataz, is not contributing to reducing poverty in the rural part because growth is concentrated in the urban area. At the methodological level, it is justified because methodologies with scientific bases are used, applied to the problematic reality, and adapted to the national reality. Based on the above, the objective of this research was to determine to what extent and how rural poverty affects the quality of life of the inhabitants in the districts of Ongón and Urpay-Pataz, [53] 2022.

2. METHODOLOGY

2.1 Type and Design of Research

The research was applied, with a quantitative approach, and a non-experimental design with causal and cross-sectional correlational scope. The variables considered were:

2.2 Independent Variable: Rural Poverty Conceptual Definition

It alludes to the existence of specific disadvantages in these areas that result in a higher or specific risk of poverty compared to urban areas. These disadvantages must be understood from the assumption that spatial differentiation influences economic conditions, social relations, the cost of public intervention, and the level and typology of vulnerability in economic development [54].

2.3 Operational Definition

Variable that was operationalized through five dimensions: family farming, expanded social protection, sustainable management of natural resources, rural non-agricultural employment, and integrated infrastructure packages. In order to determine the differences in the influence of rural poverty and the quality of life of the inhabitants of the district of Ongón and Urpay of the province of Pataz, 2022. Applying a questionnaire consisting of 25 questions.

2.4 Dependent Variable: Quality of life

It is the result of the interrelation that the human being makes with objective and subjective dimensions, in which, quality of life is not concretized by itself, but by the valuation that is made of it. The quality of life is being built at the social level and collectively, in its definition, the population intervenes, in the different scenes of a personal, family, institutional, and community nature. In addition, considering that the person is not isolated, but is immersed in a social fabric in which development and praxis converge (Villa 2021).

2.5 Operational Definition

The variable was operationalized through four dimensions: a physical dimension, a psychological dimension, a social dimension, and an environmental dimension. To determine the differences in the influence of rural poverty and the quality of life of the inhabitants of the district of Ongón and Urpay of the province of Pataz, 2022. Applying a questionnaire consisting of 20 questions.

Table 1. Distribution of inhabitants of the district of Ongón and Urpay of the province of Pataz, 2022

Districts	Condition	Sex		Total
		Women	Men	
Ongón	Census population	592	658	1250
Urpay	Census population	1011	1037	2048
Total		1603	1695	3298

Note. INEI (2022)

2.6 Population, Sample, Sampling, and Unit of Analysis

2.6.1 Population

In the present research, the population was made up of 1250 inhabitants of the district of

Ongón and 2048 inhabitants of the district of Urpay-Pataz, 2022. Below is the distribution of it:

2.6.1.1 Selection criteria

Inclusion criteria: As inclusion criteria, residents with corresponding ages between 18 and 65 years, living in rural areas of the District of Ongón and Urpay-Pataz, 2022, were selected.

Exclusion criteria: Residents of urbanized areas of other districts of the Province of Pataz during the period 2022 were excluded.

8 of the inhabitants of the Urpay district were excluded so that the size of the sample is equal for both cases.

2.6.2 Sample

The sample was made up of 170 residents of the district of Ongón-Pataz, in 2022. Below is the distribution of it:

The sample was made up of 170 residents of the district of Urpay-Pataz and 170 of the district of Ongon, 2022. Below is the distribution of it:

Table 2. Sample of residents of the district of Ongón and Urpay-Pataz, 2022

Condition	Sex		Total
	Women	Men	
Ongón District Census population	80	90	170
Urpay District Census population	75	95	170
Total	155	185	340

Note. INEI (2022)

2.6.3 Sampling

Simple random sampling was used for finite populations.

2.6.4 Unit of analysis

Inhabitants of the districts of Ongón and Urpay, Pataz, 2022.

2.7 Data Collection Techniques

The survey technique was used. The instrument used was the questionnaire. In this study, the questionnaires for the research variables were structured as follows:

The questionnaire referring to the independent variable, Rural poverty: consists of five dimensions: family farming, extended social protection, sustainable management of natural resources, rural non-agricultural employment, and integrated infrastructure packages. Dimensions were made up of 5 questions each, totaling 25 questions with a Likert type measurement scale.

While the questionnaire referred to the dependent variable, quality of life: which was made up of 4 dimensions; Physical dimension, psychological dimension social dimension, dimension is the environment. Dimensions were made up of 5 questions each, totaling 20 questions with a Likert-type measurement scale.

2.8 Validity and Reliability of the Instrument

2.8.1 Validity of the instrument

In this study the validity was carried out through the opinion of three experts in Education, the criterion of the experts in this context is of great relevance at the methodological level because it contributes to reducing the margin of error both in form and content, in this study they were given conformity through their signature, Once the validity was carried out by the experts, the result was favorable, suggesting its application to the study sample selected for this purpose.

2.8.2 Instrument reliability

To determine the coefficient and degree of reliability of the instrument, the Internal Reliability method was used, taking into consideration that the instrument that was applied will consist of multiple response options.

The reliability of the rural poverty variable was for the district of Ongón $\alpha=0.920$ and for the district of Urpay $\alpha=0.879$. And the reliability of the variable quality of life was for the district of Ongón $\alpha=0.899$ and for the district of Urpay $\alpha=0.865$.

2.9 Data Analysis Method

Descriptive statistics related to tables were used for the distribution of percentages and frequencies. Inferential statistics, as is the case of the Kolmogorov-Smirnov test with a

significance level of 5%, were used to corroborate the normality of the sample, while the Spearman correlation coefficient was used to test the hypotheses.

3. RESULTS

From Table 3, 12.4% of inhabitants perceive deficient rural poverty, 11.2% were located at the deficient level of quality of life and 1.2% at a regular level, in addition, 42.4% of inhabitants perceive regular rural poverty where 1.2% perceived that the quality of life is deficient, 40.6% fair and 0.6% good, Finally, 45.3% of inhabitants perceived good rural poverty, of which 0.6% perceived a regular level of quality of life and 44.7% attributed a good quality.

Table 3. Cross table of rural poverty and quality of life of the inhabitants of the district of Ongón

		Quality of life			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 19	2	0	21
		% 11,2%	1,2%	0,0%	12,4%
	Regular	f 2	69	1	72
		% 1,2%	40,6%	0,6%	42,4%
Good	f 0	1	76	77	
	% 0,0%	0,6%	44,7%	45,3%	
Total	f 21	72	77	170	
	% 12,4%	42,4%	45,3%	100,0%	

From Table 4, 4.7% of residents perceive deficient rural poverty, 3.5% were located at the deficient level of quality of life, and 1.2% at a regular level, in addition, 28.2% of inhabitants perceive regular rural poverty; where 2.4% perceived that the quality of life is deficient, 14.7% fair and 11.2% good, Finally, 67.1% of inhabitants perceived good rural poverty, of which 10% perceived a regular level of quality of life and 57.1% attributed a good quality.

From Fig. 1, rural poverty focused more predominantly on a good level with 47.10%, fair 36.50%, and deficient 16.50%. however, in the district of Urpay, with greater relevance focused on a good level at 67.10%, fair at 28.20%, and deficient at 4.70%; this is due to the aspects of agriculture, employability, and economic sustainability. Regarding the D1 family farming in the district of Ongón according to the perception of the population focuses on a good level with 47.10% and in the district of Urpay is centered at 78.80%, this is because the main income of the population is agriculture, since the lands are

fertile so they allow family sustenance. The D2 social protection in the district of Ongón according to the perception of the population focuses on a good level with 51.80%; since they indicate that few of the inhabitants were economically benefited by the authorities and in the district of Urpay it is centered with 67.10%, this is because most are enrolled in a glass of milk programs and together; In addition, they have support for the execution of agricultural projects according to the plans for budget allocation. As for the D3 sustainable management of resources in the district of Ongón according to the perception of the population focuses on a good level with 49.40%; since the productive assets allow the efficiency of production systems and the improvement of housing and in the district of Urpay with 75.30%, this is due to the fact that they made the delivery of goods and services for safe water and that sometimes the authorities carry out training. Regarding the D4 rural non-agricultural employment in the district of Ongón according to the perception of the population focuses on a good level with 50.60%; since the productive assets allow the efficiency of production systems and the improvement of housing and in the district of Urpay with 75.30%, this is due to the fact that they made the delivery of goods and services for safe water and that sometimes the authorities carry out training. Finally, D5 integrated infrastructure packages in the district of Ongón according to the perception of the population focus on a good level with 50% and in the district of Urpay with 46.50%, this is because family members access health, housing, and sanitation services, in addition, they promote entrepreneurship to venture into the labor market.

From Fig. 2, quality of life focused with greater predominance on a high level of quality of life at 45.30%, fair at 42.40% and deficient at 12.40%. However, in the district of Urpay, with greater relevance focused on a good level at 68.20%, fair at 25.90%, and deficient at 5.90%; This is due to the physical, psychological, social, and environmental aspects. Regarding the physical D1 in the district of Ongón according to the perception of the population is located at a good level with 51.20% in health centers do not have the necessary medicines and rarely receiving

technical help and in the district of Urpay focusing with 81.20%, this is because they have a nearby medical center and the activities, they perform allow them to exercise physically. The psychological D2 in the district of Ongón according to the perception of the population focuses on a good level with 47.60%, that is, the fourth proportion population feels dissatisfied with the quality of life; since and in the district of Urpay is centered with 81.20%, this is because they suffer from anxiety about economic issues. As for the social D3 in the district of Ongón according to the perception of the population is located at a good level of 46.50%; since they indicate that physical and cultural barriers prevent social inclusion with other districts and in the district of Urpay with 69.40%, the service they go to encourages them to participate actively in the community. Regarding the D4 environment in the district of Ongón according to the perception of the population focuses on a good level with 48.50%; Since the house has electricity services, however, the sewerage is in process, and in the district of Urpay with 43.50%, in the same way.

From Table 5. 12.4% of inhabitants perceive deficient rural poverty, 9.4% were located in the deficient level of physical and 2.9% in a regular level, in addition, 42.4% of inhabitants perceive regular rural poverty; where 10.6% perceived that physics is deficient, 25.3% fair and 6.5% good, Finally, 45.3% of inhabitants perceived good rural poverty, of which 0.6% perceived a regular level and 44.7% attributed a good physical dimension.

Table 4. Cross table of rural poverty and quality of life of the inhabitants of the district of Urpay

		Quality of life			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 6	2	0	8
	%	3,5%	1,2%	0,0%	4,7%
Regular	f	4	25	19	48
	%	2,4%	14,7%	11,2%	28,2%
Good	f	0	17	97	114
	%	0,0%	10,0%	57,1%	67,1%
Total	f	10	44	116	170
	%	5,9%	25,9%	68,2%	100,0%

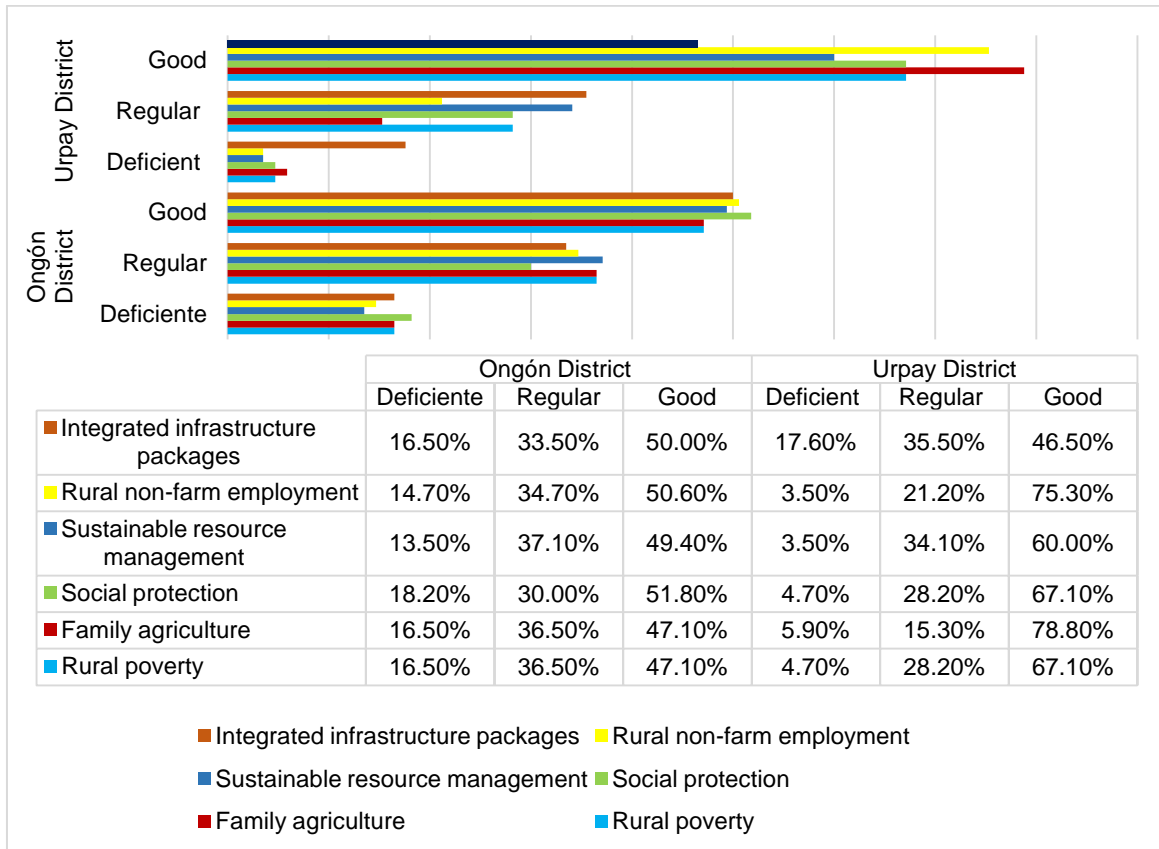


Fig. 1. Level of rural poverty of the inhabitants of the district of Ongón and Urpay

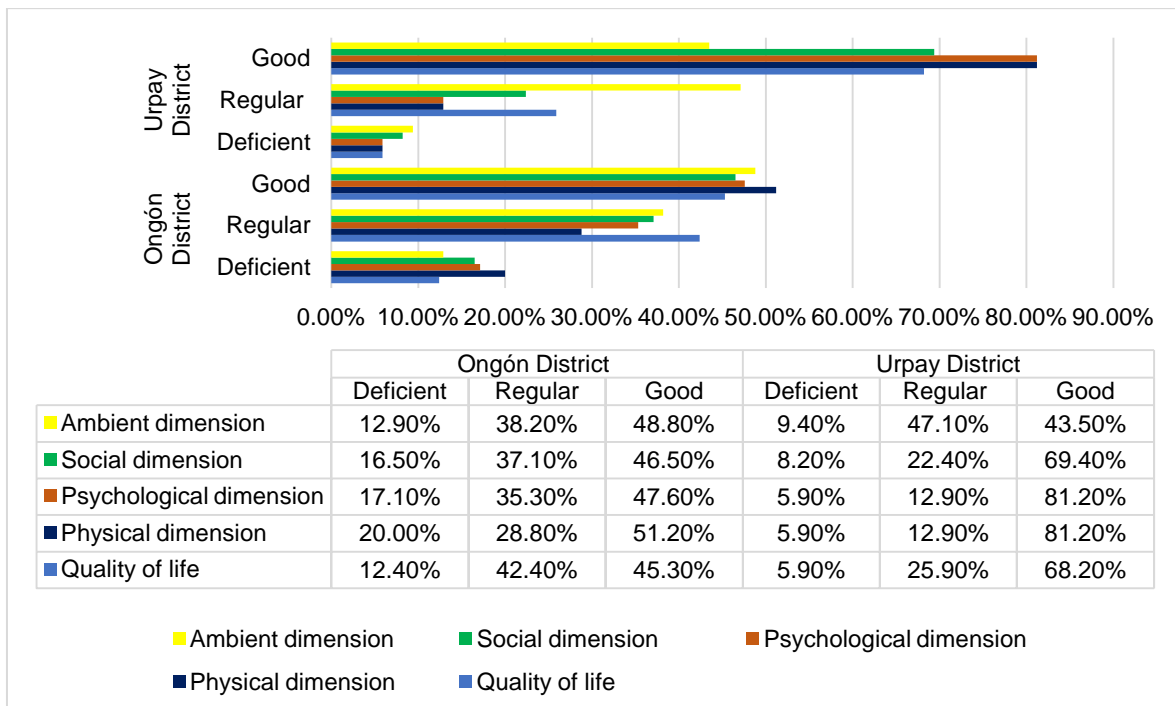


Fig. 2. Levels of quality of life of the inhabitants of the district of Ongón and Urpay

Table 5. Cross table of rural poverty and quality of life by its physical dimension in the inhabitants of the district of Ongón

		Physical dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 16	5	0	21
		% 9,4%	2,9%	0,0%	12,4%
Regular	f	18	43	11	72
	%	10,6%	25,3%	6,5%	42,4%
Good	f	0	1	76	77
	%	0,0%	0,6%	44,7%	45,3%
Total	f	34	49	87	170
	%	20,0%	28,8%	51,2%	100,0%

From Table 6, 4.7% of inhabitants perceive deficient rural poverty, 4.7% were located in the physically deficient level, in addition, 28.2% of inhabitants perceive regular rural poverty; 1.2% perceived that physical is deficient, 9.4% fair and 17.6% good, finally, 67.1% of inhabitants perceived good rural poverty, of which 3.5% perceived a regular level and 63.5% attributed a good physical dimension.

Table 6. Cross table of rural poverty and quality of life by physical dimension in the inhabitants of the district of Urpay

		Physical dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 8	0	0	8
	%	4,7%	0,0%	0,0%	4,7%
Regular	f	2	16	30	48
	%	1,2%	9,4%	17,6%	28,2%
Good	f	0	6	108	114
	%	0,0%	3,5%	63,5%	67,1%
Total	f	10	22	138	170
	%	5,9%	12,9%	81,2%	100,0%

In Table 7, 12.4% of residents perceive deficient rural poverty, 10.6% were at the deficient level, and 1.8% were regular psychological; in addition, 42.4% of inhabitants perceive regular rural poverty; 6.5% perceived that the deficient, 31.8% fair and 4.1% good in the psychological aspect; finally, 45.3% of inhabitants perceived good rural poverty, of which 1.8% perceived a regular level and 43.5% attributed a good psychological dimension.

From Table 8, 3.4% of residents perceive deficient rural poverty, it is at a deficient level of 3.4% psychologically; in addition, 11.5% of inhabitants perceive regular rural poverty; where 8% perceived deficient and 3.4% regular in the psychological aspect; finally, 85.1% of

inhabitants perceived good rural poverty, of which 6.9% perceived a deficient level, 54% regular and 24.1% attributed a good psychological dimension.

Table 7. Cross table of rural poverty and quality of life by its psychological dimension in the inhabitants of the district of Ongón

		Psychological dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 18	3	0	21
	%	10,6%	1,8%	0,0%	12,4%
Regular	f	11	54	7	72
	%	6,5%	31,8%	4,1%	42,4%
Good	f	0	3	74	77
	%	0,0%	1,8%	43,5%	45,3%
Total	f	29	60	81	170
	%	17,1%	35,3%	47,6%	100,0%

Table 8. Cross table of rural poverty and quality of life by its psychological dimension in the inhabitants of the district of Urpay

		Psychological dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 3	0	0	3
	%	3,4%	0,0%	0,0%	3,4%
Regular	f	7	3	0	10
	%	8,0%	3,4%	0,0%	11,5%
Good	f	6	47	21	74
	%	6,9%	54,0%	24,1%	85,1%
Total	f	16	50	21	87
	%	18,4%	57,5%	24,1%	100,0%

Table 9, allowed to describe that of the 170 inhabitants of the district of Ongón who were part of the study, 12.4% of inhabitants perceive deficient rural poverty, 9.4% deficient in the social aspect and 2.9% regular; in addition, 42.4% of inhabitants perceive regular rural poverty; were 7.1% perceived deficient, 31.8% fair in the social aspect and 3.5% good; finally, 45.3% of inhabitants perceived good rural poverty, of which 2.4% perceived a regular level and 42.9% attributed a good social dimension.

From Table 10, 3.4% of inhabitants perceive deficient rural poverty, it is at a deficient level in the social aspect; in the same way, 11.5% of inhabitants perceive regular rural poverty; where 8% perceived deficient, 3.4% regular in the social aspect; finally, 85.1% of inhabitants perceived good rural poverty, of which 4.6% perceived a

deficient level, 34.5% fair and 46% attributed a good social dimension.

Table 9. Cross table of rural poverty and quality of life by its social dimension in the inhabitants of the district of Ongón

		Social dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 16	5	0	21
		%9,4%	2,9%	0,0%	12,4%
	Regular	f 12	54	6	72
		%7,1%	31,8%	3,5%	42,4%
	Good	f 0	4	73	77
		%0,0%	2,4%	42,9%	45,3%
Total		f 28	63	79	170
		%16,5%	37,1%	46,5%	100,0%

Table 10. Cross table of rural poverty and quality of life by its social dimension in the inhabitants of the district of Urpay

		Social dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 3	0	0	3
		%3,4%	0,0%	0,0%	3,4%
	Regular	f 7	3	0	10
		%8,0%	3,4%	0,0%	11,5%
	Good	f 4	30	40	74
		%4,6%	34,5%	46,0%	85,1%
Total		f 14	33	40	87
		%16,1%	37,9%	46,0%	100,0%

From Table 11, 12.4% of inhabitants perceive deficient rural poverty, 10% deficient in an environmental aspect, and 2.4% regular; in addition, 42.4% of inhabitants perceive regular rural poverty; were 2.9% perceived deficient, 32.4% fair and 7.1% good in the environmental aspect; finally, 45.3% of inhabitants perceived good rural poverty, of which 3.5% perceived a regular level and 41.8% attributed a good environmental dimension.

Table 12, allowed to describe that of the 170 inhabitants of the district of Urpay who were part of the study, 3.4% of inhabitants perceive deficient rural poverty, which focuses on a deficient level in the environmental aspect; in addition, 11.5% of inhabitants perceive regular rural poverty; where 8% perceived deficient and 3.4% regular in the environmental aspect; finally, 85.1% of residents perceived good rural poverty, of which 6.9% perceived a regular level, 54% consider it fair and 24.1% attribute a good environmental dimension.

Table 11. Cross table of rural poverty and quality of life by its environmental dimension in the inhabitants of the district of Ongón

		Environment dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 17	4	0	21
		%10,0%	2,4%	0,0%	12,4%
	Regular	f 5	55	12	72
		%2,9%	32,4%	7,1%	42,4%
	Good	f 0	6	71	77
		%0,0%	3,5%	41,8%	45,3%
Total		f 22	65	83	170
		%12,9%	38,2%	48,8%	100,0%

Table 12. Cross table of rural poverty and quality of life by its environmental dimension in the inhabitants of the district of Urpay

		Environment dimension			Total
		Deficient	Regular	Good	
Rural poverty	Deficient	f 3	0	0	3
		%3,4%	0,0%	0,0%	3,4%
	Regular	f 7	3	0	10
		%8,0%	3,4%	0,0%	11,5%
	Good	f 6	47	21	74
		%6,9%	54,0%	24,1%	85,1%
Total		f 16	50	21	87
		%18,4%	57,5%	24,1%	100,0%

Table 13 showed the existence of significant differences ($p \leq 0.05$) in the influence of rural poverty and quality of life of the inhabitants in the districts of Ongón and Urpay, Pataz, 2022, associated with a $Rho=0.902$ (very high correlation) in the district of Ongón and in the district of Urpay a $Rho=0.806^{**}$ (high correlation), demonstrating that reducing rural poverty would greatly improve the quality of life of the population in the districts of Ongón and Urpay de Pataz.

From Table 14, it was evidenced that there are significant differences ($p \leq 0.05$) in the influence of rural poverty and quality of life due to the physical dimension of the inhabitants in the districts of Ongón and Urpay, Pataz, 2022, associated with a $Rho=0.867$ (high correlation) in the district of Ongón and in the district of Urpay a $Rho=0.737$ (high correlation), demonstrating that reducing rural poverty would greatly improve the quality of life in physical aspects as well as medical, social and environmental care of the inhabitants in both districts of Pataz.

From Table 15, it was evidenced that there are significant differences ($p \leq 0.05$) in the influence of rural poverty and quality of life due to the psychological dimension of the inhabitants in the districts of Ongón and Urpay, Pataz, 2022, associated with a $Rho=0.842$ (high correlation) in the district of Ongón and in the district of Urpay a $Rho=0.725$ (high correlation), demonstrating that reducing rural poverty would greatly improve the mental and emotional quality of life of the inhabitants in both districts of Pataz.

From Table 16, it was evidenced that there are significant differences ($p \leq 0.05$) in the influence of rural poverty and quality of life due to the social dimension of the inhabitants in the districts of Ongón and Urpay, Pataz, 2022, associated with a $Rho=0.878$ (high correlation) in the district of

Ongón and in the district of Urpay a $Rho=0.803$ (high correlation), demonstrating that reducing rural poverty would greatly improve the quality of social life among the inhabitants of both districts of Pataz.

From Table 17, it was evidenced that there are significant differences ($p \leq 0.05$) in the influence of rural poverty and quality of life due to the environmental dimension of the inhabitants in the districts of Ongón and Urpay, Pataz, 2022, associated with a $Rho=0.817^{**}$ (high correlation) in the district of Ongón and in the district of Urpay $Rho=0.769^{**}$ (high correlation), demonstrating that reducing rural poverty would greatly improve the quality of life by making the inhabitants of both districts of Pataz more aware and responsible for the environment.

Table 13. Differences in the influence of rural poverty and the quality of life of the inhabitants of the districts of Ongón and Urpay

			O: Quality of life	U: Quality of life
Spearman's Rho	O/U rural poverty	Correlation coefficient	,902**	,806**
		Sig. (bilateral)	,000	,000
		N	170	170

*** The correlation is significant at level 0.01 (bilateral)*

Table 14. Differences in the influence of rural poverty and the quality of life due to the physical dimension of the inhabitants in the districts of Ongón and Urpay

			O Physical dimension	U Physical dimension
Spearman's Rho	O/U rural poverty	Correlation coefficient	,867**	,737**
		Sig. (bilateral)	,000	,000
		N	170	170

*** The correlation is significant at level 0.01 (bilateral)*

Table 15. Differences in the influence of rural poverty and the psychological dimension of the inhabitants in the districts of Ongón and Urpay

			O Psychological dimension	U Psychological dimension
Spearman's Rho	O/U rural poverty	Correlation coefficient	,842**	,725**
		Sig. (bilateral)	,000	,000
		N	170	170

*** The correlation is significant at level 0.01 (bilateral)*

Table 16. Differences in the influence of rural poverty and the quality of life due to the social dimension of the inhabitants in the districts of Ongón and Urpay

			O Dimensión social	U Dimensión social
Spearman's Rho	O/U rural poverty	Correlation coefficient	,878**	,803**
		Sig. (bilateral)	,000	,000
		N	170	170

*** The correlation is significant at level 0.01 (bilateral)*

Table 17. Differences in the influence of rural poverty and the quality of life due to the environmental dimension of the inhabitants in the districts of Ongón and Urpay

			O2 Environment dimension	U2 Environment dimension
Spearman's Rho	O/U Rural poverty	coeficiente de correlación sig. (bilateral)	,817**	,769**
		N	170	170

** The correlation is significant at level 0.01 (bilateral)

4. DISCUSSION

Regarding the evidence of existing differences in the influence of rural poverty and the quality of life of the inhabitants in the districts of Ongón and Urpay-Pataz, 2022, in addition, 45.3% of inhabitants perceived good rural poverty, of which 44.7% attribute a good quality, as well as in the district of Urpay, 67.1% of the inhabitants perceived good rural poverty, of which 57.1% attribute a good quality, and these results are contrary to those of Ayón et al. [4] who consider that 24% indicate that due to the lack of support from the State they do not carry out any type of entrepreneurship to improve the quality of life, thus leaving aside rural areas without being served. So, the living conditions of the population are deplorable due to pollution, lack of education, and other aspects, however, in these study districts the situation is not so complex. Since the main source of income in both districts is agriculture, somehow the state provides support through social programs, in order to improve the quality of life of the inhabitants of each of the districts. Therefore, the definition according to Noceda (2018) is based on the quality of life is considered a value system that consists of the well-being that can be experienced by people subjectively in order to feel good in the aspects of basic services, such as health, education and the environment.

To compare the levels of rural poverty of the inhabitants of both districts Ongón and Urpay, Pataz, with respect to the first district, rural poverty was centered with greater predominance at a high level of 47.10%, fair 36.50%, and deficient 16.50%. Having a difference of 20%; Since greater relevance focused on a good level with 67.10%, this is due to the aspects of agriculture, employability and economic sustainability are sources of income. In addition, it should be noted that the main income of the population is agriculture, since the land is fertile so it allows family sustenance. However, they indicated that the smallest proportion of the population benefits from social programs. On the

other hand, for the execution of projects according to the plans for the budgetary allocation they sometimes consider the population's opinion and prioritization these for the improvement of the quality of life, however, local governments as the main aspect consider construction projects, asphalts, reservoirs, but do not take into account the agricultural aspect despite being the vital source. Similarly, the sustainable management of resources in the district of Ongón according to the perception of the population focuses on a good level of 49.40%; since the productive assets allow the efficiency of production systems and the improvement of housing in the district of Urpay with 75.30%, This is because they delivered goods and services for safe water and that authorities sometimes conduct training. Regarding rural non-agricultural employment in the productive asset, they allow the efficiency of production systems and the improvement of housing, this is due to the fact that they delivered goods and services for safe water and that sometimes the authorities carry out training. Finally, the integrated infrastructure packages consider the main elements of family members who access health, housing, and sanitation services, in addition, they promote entrepreneurship to enter the labor market in the district of Urpay, but in the district of Ongón improvements are still lacking. All this result coincides with that of Villegas (2019) the income level does not generate changes in the perceived well-being of people since it does not improve the level of income of people, according to comprehensive programs that contribute to increasing the level of well-being through security, gender equity, labor inclusion and above all credibility in public institutions. In addition, Hurtado and Pinchi (2019) to achieve sustained economic growth, there must be sectors such as construction, agriculture, mining, etc. These aspects allow the reduction of poverty and improvement of human development, with stable economic growth, low poverty, and a better human development index.

The conceptualization of rural poverty is based on the definition of Andrade and Jiménez (2018) that rural poverty is represented by national inequalities that different countries assume a dynamic role in order to reduce them. In addition to substantiating that of Annegues and Rodríguez de Oliveira (2017) who point out that the theory of modern inequality, is expressed in the key texts of Rawls and Roemer that the key factor of inequality is the intermediate process of allocation, rather than the final distribution of these resources. In the same way, it finds its sustenance in the dimensions of Grissa and Sabourin (2019) where they connote the prioritization of family farming in cooperatives and producer associations to ensure that family farmers become an economic actor. Always taking into account social protection, that is, as the articulation of social protection programs carried out by the ministries of development and social inclusion of the States of Latin America and promoting synergies between social protection policies and sectoral policies for economic and productive inclusion of vulnerable populations [39] (FAO 2018). In addition, according to Kaimowitz (2020) the aspects of sustainability that are linked to natural resources and climate change that the inhabitants live and who live in conditions of poverty and extreme poverty.

From another perspective, regarding non-agricultural rural employment, Ramírez (2019) is subject to the capacities and dynamics of each territory, in general, it can be said that it is essential to encourage the participation of capital outside the territory in question, promoting urban-rural links, the provision of basic infrastructure and the chaining of agriculture with markets for goods and related services. And integrated infrastructure packages imply the improvement of the efficiency with which resources are allocated and the existence of an institutionality capable of promoting planning at the territorial level makes the articulated deployment of rural infrastructure more feasible today, both in political and financial terms. For this, however, a new fiscal pact is required to ensure that work is done to prevent existing gaps from widening and prioritize a better use of resources from the point of view of efficiency and equity (Escobal 2020).

When comparing the levels of quality of life of the inhabitants of the districts of Ongón and Urpay-Pataz, 2022. Of the total of the inhabitants of the district of Ongón regarding the quality of life, it was focused with greater predominance in a

good level of 45.30%, however, in the district of Urpay, with greater relevance, it focused on a good level with 68.20% with a difference of 22.90%. Where he analyzed the physical aspect, evidencing that the inhabitants have health centers, however, they do not have the necessary medicines and rarely receive technical help in the district of Urpay this is because they have a nearby medical center, and the activities, they perform allow them to exercise physically. In terms of psychological in the district of Ongón the fourth proportion of the population feels dissatisfied with the quality of life, and in the district of Urpay it is centered at 81.20%, this is due to the fact that they suffer from anxiety due to economic issues. As for the social in the district of Ongón indicate that physical and cultural barriers prevent social inclusion with other districts and in the district of Urpay the service they go to encourages active participation in the community. And finally, in the environmental aspect in the district of Ongón the houses have electricity services, however, the sewerage is in process, and in the district of Urpay with 43.50%, in the same way, these results have similarity with that of Figueroa et al., (2019) where the quality of life of Venezuelan citizens is that they suffer from anxiety and depression, however, it is contrary to university education, since in both districts there are no universities, but in the province of Pataz there is an institute for technological education. The term quality of life finds its sustenance with that of Cheron (2021) who defines it is when the individual possesses qualities such as physical, social, emotional, intellectual, and occupational well-being that will allow him to satisfy his basic needs and desires, as well as have a good standard of living, with access to quality medical services, housing, clothing, leisure, having a family and individual wealth, good health, each of these elements will contribute to the happiness of the individual.

The evidence of differences in the influence of rural poverty and quality of life due to its physical dimension in the inhabitants of the district of Ongón and Urpay, Pataz, together with 45.3% of inhabitants who perceived good rural poverty, of which 0.6% perceived a regular level and 44.7% had a good physical dimension, 67.1% of inhabitants who perceived good rural poverty, of which 3.5% perceived a regular level and 63.5% had a good physical dimension, and at a difference of 21.80%, this is because the physical aspects of the in case of getting sick have a nearby medical post, however, they do

not have the medical equipment for any situation that arises, and the availability of staff in case of emergencies. On the other hand, it should be noted that income allows them to have good quality of products, however, agricultural products are natural and that they have protein nutrition, these results mentioned above, agree with the results of Merino et al., (2020) where the surveyed inhabitants of Peru have access to ESSALUD Insurance with 26.3% and placing SIS in second place with 22.1%. They still have shortcomings regarding access to basic services such as electricity and water, this can account for lower current public social spending and higher prices of services. In addition, Cieza et al., (2022) in their results considers rural development programs should become a balance between investment proposals, which allow insertion into the labor and productive market to increase their income through programs to improve their commercial approach and the construction of warehouses, are ways to contribute to improving the income of people who need it most. The physical aspect finds its foundation in the definition of Chuco (2021) which implies the self-sufficiency that an individual shows in relation to his ability to move within his own home, to be able to move to his work center, and to be able to make use of public transport services.

Regarding the evidence of differences in the influence of rural poverty and quality of life due to its psychological dimension in the inhabitants of the district of Ongón and Urcay, Pataz, together with the 45.3% of inhabitants who perceived good rural poverty, of which 1.8% perceived a regular level and 43.5% attributed a good psychological dimension, and the fact that 85.1% of inhabitants perceived good rural poverty, of which 6.9% perceived a deficient level, 54% regular and 24.1% attributed a good psychological dimension, these results are consistent with that of Panca and Calatayud (2021) by poor households was less slow compared to non-poor households, With an average growth rate of 11% and 3% respectively, although in a lower proportion of energy expenditure compared to non-poor households, the number of rooms in the home and household size, these turned out to be positive and significant at a significance level of 5%. In addition, Lévano (2019) is taken into account the search for a sense of control for coping with a life-threatening eventuality, if this coping is done proactively, positive changes occur in life. This implies the satisfaction of the quality of life since

they are frustrated by economic issues causing stress.

With regard to the significant differences in the influence of rural poverty and quality of life due to its social dimension in the inhabitants of the district of Ongón and Urcay, Pataz, as well as the 45.3% of inhabitants who perceived good rural poverty, of whom 2.4% received a regular level and 42.9% had a good social dimension, and to 85.1% of inhabitants who perceived a good rural poverty, of which 4.6% perceived a deficient level, 34.5% regular and 46% attribute a good social dimension, these results agree with García, Aldape, and Esquivel (2020) in relation to the fact that the cultural aspect is the main barrier to the development of women in the various aspects of life. It was concluded that the problem of poverty and lack of opportunities in rural areas is an invisible reality for those responsible for the various levels of government. The evidence indicates in this sense, that it is an extraordinary challenge that has to be assumed to contribute to the improvement of the quality of life for the inhabitants of these areas. Similarly, López (2019) results demonstrated low levels in the provision of public services for rural populations, compared to the high levels recorded in urban areas. It also presents an interpretation of the Colombian armed conflict and migratory flows from the countryside to the city as aggregate and perpetuating consequences of the urban bias in Colombia. In the same way, it agrees with that of Quispe et al., (2021) a poverty level that was at 79.3%, in 2010 it is decreased to 48.6%, reaching 34.4% in 2019, of which on average decreased per year by 5.16%. since at an increase of 1% in public investment in the sanitation and housing sector, then the probability that monetary poverty will decrease is 2.59%; So, the probability of monetary poverty decreasing is 8.75%. On the other hand, its sustenance is found with that of Stezano [54] that the influence of exclusion and low access to retirement pensions on the type of life and poverty levels of the elderly, a risk that increases due to the lack or shortage of services. In the same way, it is reinforced with that of (García 2018) which refers to sexual activity, expressing pleasure and receiving it by appropriately enjoying the desires that sexual activity may have been relevant [55].

As for the significant differences in the influence of rural poverty, it influences the quality of life due to its environmental dimension in the inhabitants of the district of Ongón and Urcay,

Pataz, as well as the 45.3% of inhabitants who perceived good rural poverty, of which 3.5% perceived a regular level and 41.8% attributed a good environmental dimension, and 85.1% of inhabitants perceived high level of rural poverty, of which 6.9% perceived a regular level, 54% consider it fair and 24.1% attribute a good environmental dimension, and these results are similar to that of Garay [56] showed that a great state concern for the improvement of health conditions, education and housing, being effective in reducing infant mortality, malnutrition, and illiteracy. This is based, on that of Norabuena [57], the analysis of rural poverty highlights the persistence of absolute poverty levels, and, especially, those of indigence. In addition, it is reinforced with that by Gracia [58](2019) that the environment often generates a loss of autonomy in the elderly, so it is recommended that spaces be created where this population manages to be as independent as possible, for this, it must be considered that aging brings with it losses of physical and mental abilities preventing interaction with the physical environment [59]. The environment is composed of all the factors that determine the physical space where you live, such as the type of residence, property, comfort, etc.[60]. Finally, the strengths of the methodology are that they allowed to contrast the hypotheses and determine the significant differences of the study variables in two different districts, in order to be able to compare them and determine what these different ones are due to, where they were not so relevant since there is a similarity in the aspects, physical, psychological, social and environmental. The disadvantages, since there is no improvement for each of them, this would be of vital importance since rural poverty would decrease greatly if the guidelines are taken into account and work in an articulated manner with the state, and this would make it possible for there to be a good quality of life and for young people to achieve higher education successfully, Be competitive and profitable over time.

5. CONCLUSIONS

It was possible to demonstrate a significant influence of rural poverty on the quality of life of the inhabitants in the districts of Ongón and Urcay-Pataz, which suggested a decrease in rural poverty contingent on an improvement in the quality of life of the population. Rural poverty among the inhabitants was at a good to the regular level associated with aspects of family farming, social protection, sustainable

management, rural non-agricultural employment and integrated infrastructure packages in the districts, and access to health, food, and sanitation services. The quality of life of the inhabitants was located at a good level to regulate linked to physical, psychological, social, and environmental aspects, access to electricity services. The influence of rural poverty and the quality of life due to its physical, social, and environmental dimensions in the inhabitants of the district of Ongón and Urcay, Pataz, were evident.

CONSENT

As per international standard or university standard, Participants' written consent has been collected and preserved by the author(s).

COMPETING INTERESTS

Author has declared that no competing interests exist.

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