

Scattering of Palm Groves and Its Impact on Job Creation in Rural Areas - Case Study: The Groves of Ismaili and Central Part of Jiroft, Kerman, Iran

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ABSTRACT

The aim of this study is to evaluate the garden Palm groves and its effect on employment in Jiroft rural areas. The population includes 100,000 in both parts of Ismaili and central city of Jiroft and Study, survey strategy and method documents. Research tools has been interviews and questionnaires'. The volume of the sample population is 322 people, which is obtained by The Cochran model. The selection method is Quota and the sample population and the validity of questionnaires was done by experts. In general, the effect of palm groves on employment by Stamp score of 3.65, shows with more than limit, the difference is calculated using the base 0.65. Therefore, it can be concluded that, the groves have dimensional and major impact on the rejoins stable economy. The results of T test show that, the employees of the central part of the surface is more significantly of Ismaili. And it can be said that there is a significant difference between two parts of Central and Ismaili in terms of productivity employment. So that date-palms in the rural sector has created more employment center.

Key words: Groves, Processing industries, Jobs, Jiroft city

INTRODUCTION

The most important problem of third world countries, is unemployment and it increase rural-urban migration, therefore Programs and policies of countries is to reduce unemployment and improve the conditions of majority of the people.

Rural economic development in any region is dependent on numerous activities.in this field Gardening is one of the most important agricultural activities in these areas, which has long played an important role in the economy of different villages and the livelihood of many villagers are dependent on the type of this activity (Fathi et al, 2009). Groves Dates and related industries have an important role in rural entrepreneurship rural entrepreneurs play an important role in improving life Quality of local people

by involving them in agricultural activities and thus create employment. (Maia, 2002).

In terms of geographical distribution, most palm groves in the provinces, cities, towns, located in deprived areas and remote border and a considerable part of the southern half of the country's hard-working people are living through its cultivation. The importance of this product, not only economically (Income and employment) Is able to absorb a large part of the labor force but also but one of the solutions is to replace oil monoculture economy, and by increasing the quantity and quality of these products can produce more valuable manufactured dates (Date of milk, liquid sugar, marmalade, jams, pickles, dates and...) And a product of multiple dates, such as packaging, production of sugar, alcohol, vinegar and animal feed. Moreover, in terms of social and environmental, desert and desertification is considerable and of great importance. North of palm trees in the world is about 44 degrees and 24 minutes in North of Venice but there is not palm fruit there. Most northern part of palm groves of world trade is within the sub-Saharan of Turkmenistan.

In Europe there are palm trees only in parts of the Spain. In the United States 33 and 35 degrees' north palm trees

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in the geographic area are in Southern California groves, but there is no significant Groves in Australia. In short, planting dates around the world is limited to Longitude 10 ° N (Somalia) and 39 degrees north of the country (Spain or Turkmenistan). Best planting palm trees in some geographical areas, with 24 and 34 degrees north (Niknam et al., 2010).

Iran, according to figures from 2015, around cultivated area of 235 thousand hectares, (209 thousand hectares of fertile) And production amounted to 1054000 Tons are the world's largest producers of palm, allocated Over 12 percent of cultivated more than 21% of World production. Now Iran in terms of cultivated area is located after United Arab Emirate and from point of view of production, it is in the second row after Egypt in 2012 according to Faoo. Several studies have been done in the rural employment field.

Taher Khani and heydari (2005) studied the role of production cooperatives in developing rural region of Meshkin shahr city. The results obtained through statistical analysis shows that, Membership in production cooperatives has been resulted in creating jobs and increasing rural incomes and ultimately development of rural areas in Meshkin shahr city.

Tavakoli and Nowrouzi (2013) analyzed the effects of economic, social and environmental refinery industry Parsian gas on the Mohr city in Fars province.

Varmazyar and et al (2012) examined employment Agriculture in the North West of Iran with emphasis on horticulture. According to their findings, can make favorable terms to create productive employment in rural areas, for transmission of Agricultural surplus labor from the agricultural sector to sector hortic, and also the construction of a greenhouse in the medium term and Development Related to Accessories horticulture industry in the long-term.

Samal (1997), said the theory of industrialization of rural areas is a catalyst to create sustainable employment. The last way to solve the problem of poverty in rural areas is to solve the problem of unemployment.

Gaydry also believes that employment is the most important outcome could be other issues as rural migrants to the influence and intention to remain in the village lift.

Azizi and Yazdani (2005), based on their findings have introduced, gardening is one of the major sub-sectors which have a high economic importance. It is promising top position globally products often have a significant improvement from 1979 to 2015. Also, there is a good

chance in this context, the growth performance of these products. Given the need to reduce irregular migration of villagers, rural employment is a critical need. The problem in the region, which is prone conditions for agricultural activities, especially the planting and harvesting of palm groves are of greater importance. This study aimed is to investigate the situation of rural employment in the region, the use of latent capabilities in the field of horticulture and provide appropriate solutions. Rural economic development is one of the main objectives in planning for rural areas. In this regard, identify potentials and actual potential of each region is necessary. Gardening activities as one of the most important parts of the agricultural sector, has long played an important role in creating jobs, income and rural economic development in south of jiroft city and the livelihood of many villagers are dependent on it.

This study is to prove the following assumptions:

- Palm groves have particular effect on employment, income and rural region's economy.
- Palm groves central part of the region cause more employment than Ismaeeli.
- Palm processing industries have special effect on employment, income and economy of rural households in the area.

CASE STUDY

Jiroft city in Kerman province, according to the acreage of seven thousand hectares of groves have potential required for Job creation and entrepreneurship and production revenues from the cultivation of dates. This city is placed on peculiarities of Longitude 56 degrees 45 minutes 58 degrees 31 minutes and longitude 28 degrees 10 minutes 29 degrees 20 min, and its situation is mountainous plain, and it is one of the kerman cities or in the provincial capital of it. This city has an area of about 8602 square kilometers, equivalent to 65/4 per cent of the province. Jiroft city arrives to kerman city from north, arrives to kahnooj and faryab city from south, arrievs to Bam city from east, arrives to Baft from west. (Planning, Statistics and Information Office of the Governor Kerman, 2011) (Figure 1).

MATERIAL AND METHODS

The present study is applied from point of view of aims and type, and has a descriptive analytical nature by a survey strategy. Researches and Social monitors require the use of appropriate methodology.

Methodology of This study is a combination of qualitative and quantitative methods. The multi-step process (from

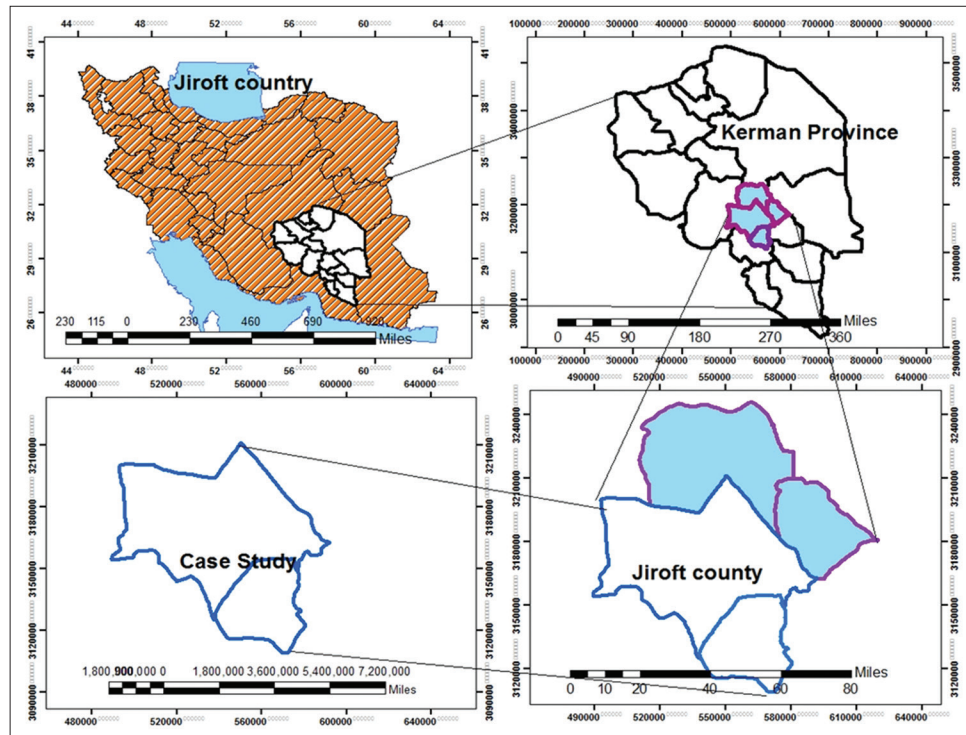


Figure 1: Jiroft location in kerman province

data collection to analysis and interpretation of design and items) will work together. In this type of methodology, field data are gathered through appropriate tools such as questionnaires, they can be coded into the test Statistical and quantitative analysis in such a way in which SPSS will do on it. In this study, questionnaire data for palm rural owners have been collected so one may do analyses one-sample T test for independent samples T, pay analysis. The sample size which is used for collecting the information, taking into consideration the rural area as a statistical, stratified random sampling method. Quota sampling is the time, one put a portion of sample for every village in terms of rural population or dimensions population of each village.

Finally, the principles and techniques, measuring the reliability in formulation questionnaire, the Cronbach's alpha was used in SPSS. Then according to the relative share of each class, based on the geographical distribution within each district acted to collect data as full questionnaire (Table 1).

The questionnaire used is in the range of five parts Likert and redesign Questions. The Study population consist of rural households and the central part of Ishmael, who have been living in 8 districts. Then to achieve a reasonable volume of sample, the sample Cochran is used. The data from the questionnaire test, two independent sample t-test were analyzed in SPSS software.

RESULTS AND DISCUSSION

In order to evaluate the effect of palm groves on employment, income and rural economy, four items has been used. In order to get the final answer of palm groves to evaluate the effect on employment, income and rural economy of these four items each sample were analyzed by T-test. (Table 2 shows results). Also, due to the positive effect of high and low palm groves, it can be said that the economic situation and livelihoods of rural households is higher than the standard (Table 2).

Then the first hypothesis can be confirmed. Harvesting dates is one of the most important sectors of palm groves activity, the need for labor is so high that in the times of harvest it is in need of labor from outside the city.

The results of Table 3 shows the calculated value for the activities associated with dates, withdrawals, and keep it in the field of employment and the needs of households over the base (3). The impact on employment and the needs of its palm groves and related activities is higher than the standard of living of the people. Harvesting dates is one of the most important sectors of palm groves activity, the need for labor is so high that in the times of harvest it is in need of labor from outside the city. Therefore, the agricultural sector has an important role in the employment area.

Since the results of Sig amount is less than 0.05, then the equal variances is accepted, And T-binomial in this area is

desirable. T-test results in Table 5-30 shows, the average employees of the central part by 3.6403 per hectare, is more than Esmaili part in 3.2295 per hectare. Also by considering the significance level test which is less than 05/0 and equivalent to (20.04), it can be said that, there is a rare difference between two sectors in terms of productivity and employment between central and Ismail parts. To the extent that, Date-palms has created more jobs in the center part. This returns the central part of the quality of palm groves. In the central part due to higher clay and water, natural talent to develop palm groves there. Because of comparative advantage in this area, as well as significant expansion refrigeration and packaging, so Productivity and employment in the central part of the palm groves is more. (Table4, 5)

“Industries and production date palm can be a particular impact on employment, income and economy of rural households in studied area. In order to evaluate the

effect of palm groves on employment, Low income and rural economy of one sample were analyzed by T-test.” Related activities and processing industries could be causing date palm of employment in the region. The difference between the amounts calculated by the base is (0.869570). The calculated value items, related activities and date palm processing industries could revenue in the region by (4.0062), which the difference between the amounts calculated by the base is (1.00621). Since the difference between the items was positive, it can be said that, the calculated amount is more than the base. Also, since the Sig is less than 0.05, we conclude that this difference in level 95/0 reliability is significant. Also, due to the high and low amount of the extent, it can be said that Industries and production of date palm from the perspective of people can create jobs and income in the region, Therefore, this hypothesis is confirmed (Table 6).

In fact, all related activities of date palm, are in the process of planting, and harvesting which is done for this type of tree. This type of activity done from simple to difficult and complex, which may be expressed by both genders (male and female), For all age groups (Packaging and container by children, Harvesting and packing for teens, Planting, and maintained for adults and ...). The former activities such as fertilizer production (Animal and plant) For the palm tree, Production of corrugated boxes for packaging, and the late post-harvest activities also includes a series of activities such as transportation, storage, refrigeration, processing, marketing and etc. which Can have an essential role in sustainable economic development and rural employment. The planning in this regard is very important and valuable, and Income and employment is one of the most important industrial in rural areas (Table7).

As mentioned, the palm is one of the agricultural employment activities in the studied aria, in fact, the possibility of mechanization in agriculture is less, and is more user than horticulture The variety and frequency of side products that can be obtained from groves is more than the agricultural production, which could result in new jobs in turn.

Table 1: Statistical population and sample population

Row	Collection name	Population size	The share of the population (Percent)	Sample size
1	Eafandeghe	No groves	7.164133	23
2	Ealam Abad	13950	5.984491	19
3	Khatoon Abad	11653	10.7575	35
4	Dolat Abad	20947	4.582991	15
5	Helil	8924	7.390099	24
6	Esmaili	14390	9.069947	29
7	Hosein Abad	17661	5.050842	16
8	Ganj Abad	9835	50	161
9	Majmou	97360	100	322

Source: research findings

Table 2: The results of the one-sample t-test to evaluate the effects on the livelihood of family farms

Variables	N	Mean	Standard error mean	Significant
Palm groves and economic impact on the living conditions of rural households	322	3.6561	0.65606	0.000

Source: research findings

Table 3: The results of the one-sample t-test to evaluate the effects of Groves on employment

Items	Mean	Standard error mean	Significant	Low level	Upper limit
How much the palm groves are causing employment among members of your family	3.5124	0.51242	0.000	0.4216	0.6033
To what extent the activities related to maintenance and harvest dates Creating employment in the region	3.4907	0.49068	0.000	0.3474	0.6340
How much of the harvest is creating jobs in your area	4.5683	1.56832	0.000	1.5056	1.6310
Activities related to palm groves, to what extent provide the basic needs of your life	3.0528	0.05280	0.331	-0.0539	0.1595

Source: research findings

CONCLUSION

Jiroft city, in Kerman province has a very high date's cultivation. Under these circumstances, the potential for job creation, entrepreneurship, productivity, and revenue has been provided. By Considering the above, this study investigated the distribution of palm groves in the jiroft city and its impact on rural employment then the following results have been achieved: Palm groves have a major impact on rural employment of Jiroft plains. Palm groves have particular effect on employment, income and rural region's economy on studied area, that the one-sample

t-test was used to prove it, in fact, in order to evaluate the effect of palm groves on employment, income and rural economy, four related items were used. In order to evaluate the effect of palm groves on employment, income and economic rural households, the items combined together and then they analyzed by one sample t-test. The results showed that the overall calculated amount and effect on employment palm groves with a score of 3.65 is higher than average, as the difference is calculated using the base 0.65. Thus this palm grove and several subsequent major impact on the rural economy of the study area. Based on these results one can improve the impact of palm groves on the economy of rural households and Different strata of rural employment. Palm groves of the central area have made more employment than Esmaili zone. T test results showed a significantly higher average worker in the central part of the Ismaili employment. It can be said that there is a meaningful difference between the two sectors of central and Ismail in terms of productivity,

Table 4: Descriptive results of binomial t-test

Workers	N	Mean	Standard deviation	Standard error mean
Ismaeeli part	139	3.2295	2.57029	0.19000
Central part	183	3.6403	3.37512	0.28627

Source: research findings

Table 5: Descriptive results of binomial t-test

Independent samples test

	Levene's test for equality of variances		t-test for equality of means					
	F	Sig.	t	df	Sig. (2-tailed)	Standard error difference	95% confidence interval of the difference	
							Lower	Upper
Since the amount so Sig based on the results of Lunz is less than 0.05 , the equal variances are accepted	5.112	0.024	-1.240	0.41078	0.33129	0.042	-1.06255	0.24099

Source: research findings

Table 6: Descriptive results of T-binomial

Items	N	Mean	Standard deviation
Related activities and dates processing industries have increased the employment in the region	322	3.8696	0.69829
Related activities and dates processing industries can increase incomes in the region	322	4.0062	0.71475
Related activities and dates processing industries can increase employment in the region	322	1.4037	0.49141
Activities related to processing and packaging dates industries, how much have been effective on your income	322	1.3820	0.51160

Source: research findings

Table 7: The results of the one-sample t-test

Items	Calculated	Difference calculated using the base3	The level of significance	Significant at 95% confidence level	
				Lower limit	Upper limit
To what extent related activities to dates can makes employment in a region	3.8696	0.86957	0.000	0.7930	0.9461
To what extent related activities to dates can increase income in a region	4.0062	1.00621	0.000	0.9278	1.0846
How much backbone facility with palm processing industries create employment in the region	1.4037	-1.59627	0.000	-1.6502	-1.5424
Activities related to processing and packaging industry to date has been the level of your income	1.3820	-1.61801	0.000	-1.6741	-1.5619

Source: research findings

so that date-palms in the central part of the village has created more jobs. The reason for this statistical factors are, comparative advantages (abundant water and rich soil), quality of palm groves in terms of mechanization and the use of modern tools and agricultural inputs, access to urban centers, easier access to cold storage, and communication paths Tier 1 (two axis crossing with the asphalt temperature in central section. These effects are both in direct and indirect forms. The direct impact is in fact the employment rates of different age groups and gender in palm groves, which includes planting, cultivation, irrigation, pruning, fertilization, clustering, and Harvest (handpicked). The indirect employment included jobs that the anterior and posterior chain have palm groves surrounding agriculture And the jobs called conversional are: 1- Packing, plastic, 2- Refrigerator equipment and storage, 3- Artificial insemination by a computerized tool, 4-dates in processed fruit and muffins, 5- Modern package dates with cumin and deductions for markets in Europe, Other types of indirect jobs related to palm groves can be Handicrafts Like mat and mat types, ropes, belts, baskets, brooms, and Summer. The palm groves are also effective on additional jobs (full employment). Ranching is one of those jobs. Since palm groves are so tall, that animals can't get them, Feed within

the palm plantation, compared to other products (Like citrus) provide an appropriate context for livestock.

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