

## ROLE OF SPECIALIZED ASSOCIATION IN BEEKEEPER DEVELOPMENT IN SOME CENTRAL AND SOUTHERN GOVERNORATES OF IRAQ

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### ABSTRACT

The objective of this research was to identify the roles played by the specialized beekeepers associations in the central and southern governorates of Iraq in the following fields .Data management, extension, equipment, coordination, marketing, encourage of innovation , as well as to identify the problems facing the specialized associations ,from sample of 122 respondents ( All members of the board of the specialized associations of 40 respondents,and random sample of 18% of beekeepers belonging to these associations of 457 beekeepers and 82 respondents). The results of the research concluded that the percentage of specialized associations for these roles was 80%, 83%, 56.25%, 75.6%, 54.5% and 75.4% degree respectively. The weighted average of the level of services provided to beekeepers in the above mentioned fields except for the field of data and information management , 1.54 , 1.11 , 1.49 , 0.96 , 1.31 degree and on the next The results of the research found that the problem of lack of funding sources for the association to perform the tasks required came first with a weighted average 1.97 degree and a percentage weight 98.5% degree

Keyword: extension, equipment, coordination, marketing, innovatio.

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الخفاجي وناجي

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دور الجمعيات التخصصية في تطوير تربية النحل في بعض المحافظات الوسطى والجنوبية من العراق \*

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المستخلص

استهدف البحث التعرف على الادوار التي تقوم بها جمعيات مربي النحل التخصصية في المحافظات الوسطى والجنوبية من العراق في المجالات الاتية (ادارة البيانات والمعلومات ، الارشاد ، التجهيز ، التنسيق ، التسويق ، تشجيع الابتكار ) ، فضلا عن التعرف على المشكلات التي تواجه الجمعيات التخصصية، من خلال عينة مقدارها 122مبحوثا ( 100% من اعضاء الهيئة الادارية للجمعيات وعددهم 40 عضوا و 18% من مربي النحل المنتمين لها والبالغ عددهم 457 مربيا للنحل وواقع 82 مبحوثا)، وخلصت نتائج البحث إلى ان النسبة المئوية لقيام الجمعيات التخصصية للادوار اعلاه كانت ( 80% ، 83% ، 56,25% ، 75,6% ، 54,5% ، 75,4%) وعلى التوالي، كما بلغت الاوزان المرجحة لمستوى الخدمات المقدمة للنحالين في المجالات المذكورة انفا عدا مجال ادارة البيانات والمعلومات (1,54 ، 1,11 ، 1,49 ، 0,96 ، 1,31) درجة وعلى التوالي، كما توصلت نتائج البحث الى ان مشكلة قلة مصادر التمويل اللازم للجمعية للقيام بالمهام المطلوبة جاءت في المرتبة الاولى بمعدل موزون بلغ (1,97) درجة ، ووزن مئوي بلغ (98,5%) درجة.

كلمات مفتاحية: الارشاد، التجهيز، التنسيق، التسويق، الابتكار

\*جزء من رسالة ماجستير للباحث الاول

## INTRODUCTION

The government sector is no longer the only one responsible for developing a particular agricultural activity or providing services to its practitioners. Several parties have contributed to this, such as the private sector, non-governmental organizations and agricultural cooperatives. In some countries, however, the non-governmental sector is concerned with providing agricultural services to the farmers (10). The private sector, associations, and non-governmental organizations are increasingly involved in the delivery of services, a strategy for the development of the agricultural system, which is termed pluralism, which means that agricultural non-governmental organizations are allowed to participate in the provision of agricultural and extension services (5). In addition, pluralism is a successful and effective approach to agricultural and rural development, in the reform of agricultural extension systems and in improving the quality of extension services. This approach is confirmed by international organizations such as (FAO), the World Bank and the European Organization for Agricultural Development (11). The (FAO) that the rural non-governmental institutions that could play a significant role to mobilize the rural community support for the rational use of natural resources and environmental protection, as it can form a key element of sustainable development. This type of institution can also motivate the rural population to adopt a vision of planning and support cooperation that takes into account the interests of the community and the needs of individuals (8). The annual conference on rural development in the Arab countries and the declaration the business of the 21st century stated that one of the most important opportunities for realizing the objectives of rural development in the Arab world is the partnership and the use of the services provided by non-governmental organizations . By supporting community institutions and encouraging their participation in the development and implementation of sustainable development plans (6). The (FAO) defines agricultural cooperatives as a social project that balances two main goals: Meeting the needs of its members, striving for profit

and sustainability, giving priority to people before profit, and helping its members achieve their common goals and social aspirations Economic and cultural development (7). One study conducted in India in Karnataka found that cooperative associations play a crucial role in supporting development issues, especially that government sectors are less interested. The study found that cooperative associations have played a prominent role in sustainable agricultural development, especially in the organic farming system, awareness programs and marketing facilities (16). In another study conducted in sub-Saharan Africa on the actual and potential roles of non-governmental associations, including the cooperative in agricultural development, they found that these associations provide significant services in the field of agricultural development (14). It is worth mentioning that the Ministry of Planning in Iraq has repeatedly encouraged cooperative action and specialized associations among the means to achieve the objectives of the National Development Plan 2013-2017 in the agricultural sector. (9) It is known that cooperative agricultural associations in Iraq have been formed since the 1950s and have played several roles In the field of serving the farmers belonging to them over the past period and had a role in the decision-making process of the agricultural process in many cases and the General Federation of Agricultural associations in Iraq is different from other federations, organizations and trade unions is productive within the cooperative economic system Which is one of the branches of the non-governmental agricultural economy (3) and is currently under the umbrella of a number of specialized cooperative societies , including associations of beekeepers. The importance of these associations lies not only in the services they are expected to offer to beekeepers, but also in the field of beekeeping and honey production. The importance of honeybees lies not only in food and medicine, but its importance lies in its efficiency in pollinating and improving flowers. And increase the production of agricultural crops (2) , not only the role of bees to complete the process of pollination of economic crops, but the completion of vaccination of wild plants

and this indicates the importance of honey bees to increase food production is responsible for the production of 30% of food around the world as well as conservation of wild species and used by humans for the purposes of Industrialized and therapeutic, as well as the importance of its presence as part of a balanced ecosystem (15) . "When you give the bee one euro to the beekeeper, it gives in return 15 euros for the farmer and the gardener and the gardener for about 3 kilometres around the beehives," says Gilles Ratia, president of the World Conference of beekeepers (12).

### **The objectevs**

1-Identify the beekeeper's associations role for the development of beekeeping in the central and southern governorates of Iraq in the following fields: (data and information management, extension, equipment, coordination, marketing, encourag of innovation ) and from the point of view of

A- Board members of the specialized associations of beekeepers

B- Beekeepers belonging to the specialized associations

2-Identify the problems facing the specialized associations of beekeepers

### **Research Hypothesis**

1-Beekeeping associations play a number of roles in the development of beekeeping.

2- There are several problems faced by associations of specialized beekeepers limit the exercise of their roles

## **MATERIALS AND METHODS**

### **Methodology**

In light of the research objectives that want to be achieved, the descriptive approach was used to obtain realistic and accurate information from the social reality about the phenomenon in question, and to identify and predict the relationships between the variables that affect the phenomenon [2]. Therefore, this approach is suitable for obtaining detailed data and facts about the roles played by specialized associations of beekeepers.

### **Community and sample research**

The following research community

1- All associations of specialized beekeepers in the central and southern governorates, which has been established for five years and more, represented by specialized associations

in (Baghdad, Babylon, Najaf, Diwaniyah, Basra).

2- All Board members of the specialized associations of beekeepers of 40 respondents

3- random sample of 18% of beekeepers belonging to these associations, 457 beekeepers and 82 respondents.==Thus, the total number of the sample was 122 respondents

### **The research tool and stages of design it**

In order to achieve the goals of the research, a questionnaire was prepared as a tool for collecting information related to the management carried out by the specialized beekeeper's associations. A questionnaire is a research tool consisting of a set of questions and paragraphs designed around the phenomenon. To identify the characteristics of the respondents and their attitudes towards a particular subject or phenomenon (1). The design process has gone through the following stages:

#### **First- Preparing the scheme in its preliminary form**

The preliminary plan of the questionnaire was prepared by reviewing the literature, books, studies, researches and articles related to the research subject. The expert opinions and specialists in the field of agricultural extension and agricultural economy were also used, as well as the use of the Internet, Field visits to the general and specialized cooperative societies and meeting with a number of its members, as well as the researcher's experience as a member of a specialized association. The questionnaire consisted of 44 items divided into six areas: the role of data and information management 6 items, the extension role 11 items, the role of the equipment 10 items, the coordination role 6 items, the marketing role 6 items, encouraging innovation 5 items, as well as 10 items on the problems facing the specialized associations of beekeepers.

#### **Second- Measure the validity of the scheme:**

After preparing the form in its initial form, including its fields and items, it was submitted to a group of experts and specialists from 11 experts in the field of agricultural extension and agricultural economics in order to measure and validate the content through a special questionnaire (expert questionnaire) , (4) and

(17) stated that the apparent truthfulness means presenting the scale to a group of experts or arbitrators who have the expertise to judge the validity of the scales in measuring the phenomenon. The other kind of validity, which is also called the truth of the content, i.e. ensuring that the measure measures what has been prepared for measurement and does not measure anything else (17). This has been achieved by presenting the scale to a group of experts in agricultural economics.

### **Third- Determination of the approval criteria**

The approval criterion or the cutting threshold is the degree to which the Field or item should meet the average grade of expert approval for its survival on the scale. It is the basis for judging that any component of the proposed scale remains in its final form. The cutting threshold was set at 75% or more, and the degree of approval by the experts in the fields and items of investigation was 91.14 degrees. Therefore, all fields and items exceeded the cutting threshold of 75%.

### **Forth - Reliability of the questionnaires:**

Stability means obtaining the same results when re-applying the tool and analysing it with the condition that the same conditions and categories of analytical methods exist as well as the time difference in which the instrument is applied and analysed. Stability testing is an important condition and basis of the standards included in the questionnaire, for this purpose, a preliminary test was conducted for the questionnaire of respondents in mid-July 2017 on a number of respondents from the beekeepers association in Karbala, a specialized cooperative association outside the sample, whose number is 10, with 5 respondents from the members of the administrative board of the association and 5 respondents from the beekeepers which are belonged to it, through two questionnaires, the first questionnaire was composed of two parts: the first test consisted of 46 items specific to the roles of the association, and the answer to them ( yes or no ), the second part is a three-step, three-level measure of the problems

faced by specialization, consisting of three levels (important, normally important, and unimportant), and given the weights (2, 1, 0) and respectively, and the second questionnaire in the form of a tripartite measure to measure the services obtained by the members consists of three levels ( always, sometimes, do not get ) and given the weights ( 2 , 1 , 0 ) and In order to measure statistically stability, the pre-test data were analysed using two equations: Pearson equation and half-split method for the first questionnaire assigned to the board members of the association, which was designed as a test, and the Vac Cronbach equationnaire for role and problem measurements. (0.93 ,0.89 , 0.90) for both roles scale and service scale and the scale of problems, respectively , all of which express scientifically accepted and researchable coefficients, since the stability coefficient is scientifically acceptable if it is close to 1. Thus, the final form of the questionnaires are applicable in the indeed.

### **Statistical analysis:**

The data were analysed using the SPSS program and through the following statistical methods (frequency, percentages) for the first questionnaire, and (weighted average , percentage weight) for the second questionnaire

## **RESULTS AND DISCUSSION**

**The first objective/ to identify the roles played by the associations of beekeepers specialized in the development of beekeeping in the central and southern governorates of Iraq through the following**

**First: from the point of view of the board members of the specialized associations:**

The results of the study showed that the average percentages of respondents' responses (yes) to the items of each of the six roles identified for the bee breeder's associations varied between ( 54.5% - 83% ), which is a not bad percentage in light of the recent experience of specialized associations, especially in this area as well as the material, financial and human resources available to the Assembly, as shown in Table 1:

**Table 1 .The views of the board members on the roles played by the specialized associations**

No	The Role	Averages of percentages	
1-	Data and information management role	80%	
2-	Extension role	83%	
3-	Equipment role	56.25%	4- Coordination
		75.6 %	
5-	Marketing role	54.5%	
6-	encouraging innovation role	75.4%	

The above table indicates tha the supervisory role of the specialized associations has reached the highest percentage of 83%, which reflects the interest of the specialized associations of beekeepers on the extension aspect, increasing the capabilities of the members of the association and meeting their cognitive and skill needs. While the role played by the marketing associations specialized is the weakest among the rest of the roles, as it got the lowest percentage as it reached 54.5% and may be attributed to the weakness of the role of the Assembly of this role in general to several reasons,

- 1- weak financial capabilities of associations, which led to the inability to buy bee products from members and then marketed collectively.
- 2- competition by imported bee products, especially honey, which is characterized by lower prices compared to the local product, which is more expensive as a result of higher production costs.

- 3- Culture of the purchasing community of honey through the purchase of local honey from the beekeeper directly and not on the other hand to verify the safety of the product
- 4- Lack of marketing outlets through which honey can be marketed abroad

**Secondly : from the point of view of the beekeepers belonging to specialized societies**

**1- Extension role:** The results of the study showed that the responses of the respondents to the items of the extension role carried out by the specialized associations of beekeepers (11), obtained a weighted mean between (1.15 - 1.69) and a percentage weight (57.5 - 84.5) The weighted average of the role was (1.55) and the percentage was (77.5), which is higher than the mean of the scale that equal to (1), which indicates the ability of specialized associations to carry out this role. As in Table 2:

**Table 2. The views of the beekeepers on the extension role of specialized association**

No	Items	weighted Average	percent weighte	Sort by importance	weighted average of role	percent weighte of role
1-	Provide advice on beekeeping	1.69	84.5	1		
2-	The association promotes your communication with other beekeepers	1.65	82.5	2.5		
3-	Participates in the meetings of the Assembly's General Assembly and its periodic elections	1.65	82.5	2.5		
4-	Training courses on beekeeping	1.64	82	4	1.54	77
5-	Seminars on Beekeeping	1.61	80.5	5		
6-	Guidelines for Beekeeping	1.58	79	6		
7-	Exhibitions of beekeeping technologies and products	1.54	77	7.5		
8-	Field visits to give you	1.54	77	7.5		
9-	Participate in the identification of annual extension activities	1.52	76	9		
10-	The Association organizes conferences and workshops and invites you to participate	1.41	7.5	10		
11-	Field days about beekeeping	1.15	57.5	11		

The above table indicates that all the items of the extension role have obtained a weighted rate higher than the mean of (1) degree. The Beekeeping Consultancy section ranked first

among the items that show the services obtained by the beekeepers from the specialized associations that belong to them and within the extension role. They obtained

the highest weighted average of 1.69 degrees and a percentage weight of 84.5% This may be due to the ease of access to these consultations during direct meetings with the members of the administrative body of specialized associations or through telephone calls, as well as the Internet and through the means of social communication and the official page of the associations of beekeepers specialized. While the item of the association was active field day on beekeeping at the lowest weighted average (1.15) degree, and a percentage weight of (57.5%) degree, which may be due to the fact that field days usually take place at the end of the season of fields of demonstration, which in

turn need to Special preparation and time may reach several months of follow-up, making the specialized associations focus on the implementation of extension activities with a short period of time.

## 2- Equipment role

The results of the study showed that the responses of the respondents on the role of the specialized role of the specialized associations of beekeepers (10) items obtained a weighted mean between (0.63 - 1.51) and a percentage weight between (32.5 -75.5) The weighted average was (1.11), with a percentage of (55.5), which is higher than the mean of the scale of 1, as in Table 3:

**Table 3. The views of the beekeepers on the equipment role of specialized associations**

No	Items	weighted Average	percent weighted	Sort by importance	weighted average of role	percent weighted of role
1-	The society will solve problems that appear on what is being processed	1.51	75.5	1		
2-	The association provides you with the requirements for beekeeping	1.47	73.5	2		
3	The Society will follow up on what is being prepared for you and take your observations	1.4	70	3		
4-	The Association recognizes your level of satisfaction with what is being processed for you	1.39	69.5	4	11.1	55.5
5-	Provide treatments for the faces facing you	1.34	67	5		
6-	You are provided with subsidized prices .	1.30	65	6		
7-	The Assembly is aware of the characteristics of the supplies before they are provided	0.73	36.5	7		
8-	The association will equip you with the queens you need .	0.70	35	8		
9-	The assembly will equip you with the parcels you need .	0.65	32.5	9		
10-	The assembly will equip you with the behives you need .	0.63	31.5	10		

It is clear from the table above that the items (the society solve the problems that appear on what is being processed) came in the first place among the items that show the services obtained by the beekeepers from the specialized associations that belong to them and within the processing role, This may be due to the keenness of the specialized associations to provide the requirements for high-efficiency bee-keeping in order to achieve the satisfaction of the members of the association and to serve the development of beekeeping within the scope of its work, as well as the adoption of the Assembly on the simple profitability margins obtained Of the processing of supplies in the coverage of its

activities And they are therefore keen to continuity beekeepers processing inputs of good quality. While the items (the Assembly members processed bees) on the lowest weighted average (0.63) degree and a percentage weight (31.5) degree. This may be due to the poor physical and financial resources of the associations that enable them to equip their members with bees, parcels and queens.

**3- Coordinating role:** The results of the study showed that the responses of the respondents to the paragraphs of the coordination role carried out by the specialized associations of beekeepers (5) items, obtained a weighted mean between (1.41 - 1.61), and percentage

weight (70.5 - 80.5) The centre is weighted for the role in general (1.49) degree, and a percentage weight of (74.5) degree, which is higher than the average mean of the scale of

(1) degree, which indicates the ability and interest of specialized associations to carry out this role. Well, as in Table 4:

**Table 4. The views of the beekeepers on the coordination role of specialized association**

No	Items	weighted Average	Percent weight	Sort by importance	weighted average of role	Percent weight of role
1-	Coordination has facilitated your access to the leave of the dissolved from the Directorate of Agriculture.	1.61	80.5	1		
2-	Coordination between you and the prevention department during air control campaigns.	1.57	78.5	2		
3-	The association helps you move your cells from one place to another through coordination with other parties .	1.47	73.5	3		
4-	Coordinate with the extension agency and the Agriculture Directorate to include include your needs and problems in the activities and decisions issued by them	1.42	71	4.5	1.48	74
5-	The Association facilitates the procedures for obtaining loans through coordination with the Directorate of Agriculture and the Agricultural Bank	1.42	71	4.5		
6-	The association coordinates with the agricultural authorities in order to increase the sources of nectar.	1.41	70.5	6		

It is clear from the above table that the items of the Assembly to facilitate the access of members to leave the establishment of a displaced from the Directorate of Agriculture in the province of the highest weighted average (1.61) degree, and a percentage weight of (80.5) degree, and may be due to the Assembly's keenness to coordinate with the Directorate of Agriculture - Department of plant protection as the government agency that represents beekeepers in the province, as well as to encourage beekeepers to obtain the license and install their data in a formal manner and the largest number of them. While the items(The association coordinates with the agricultural authorities in order to increase the sources of nectar) on the lowest weighted average (1.41) degree and a percentage weight (70.5) degrees. This may be due to the multiplicity of entities responsible for the

expansion of the sources of agriculture, the municipal and governmental nurseries, as well as weak enforcement of laws on the right of forest overruns and the bulldozing of agricultural orchards and turning them into residential areas.

#### **4- Marketing role**

The results of the study showed that the respondents' answers to the sections of the marketing role carried out by the bee associations specialized in the number of bees (6) items , obtained a weighted mean between (0.37 - 1.31), and percentage weight is between (18.5 - 65.5) The mean percentage of the role is generally 0.96, with a percentage weight of 48, which is less than the mean of the scale of 1, which indicates the weakness of the practice of this role by the specialized associations of beekeepers, as in Table 5:

**Table 5. The views of the beekeepers on the marketing role of specialized associations**

No	Items	weighted Average	percent percent	Sort by importance	weighted average of role	percent weight of role
1-	The association organizes exhibitions to market your products.	1.31	65.5	1		
2-	The association provides information about marketing your product	1.27	63.5	2		
3-	The association calls on government agencies to limit imported honey.	1.16	58	3	0.96	48
4-	The association promotes your products from bees.	1.05	50.5	4		
5-	The association acts as an intermediary to market your product.	0.60	30	5		
6-	The association buys the honey produced from your grant	0.37	18.5	6		

The above table indicates that the item (the organization organizing exhibitions to market the products of members) is at the highest weighted average of 1.31 and a percentage weight of 65.5 degrees. This may be attributed to the tendency of associations towards the use of collective methods in marketing, It is possible for the members of the association, and the results are greater for the members and the association together, on the other hand , as it draws the attention of government agencies and society to the importance of this agricultural activity , and the agricultural exhibitions provide the opportunity to exchange information and experience and maintain communication between beekeepers. While the purchase of honey produced from the members' broods was obtained at the

lowest weighted mean of 0.37 and a percentage weight of 18.5 degrees. This may be attributed to the poor material capabilities of cooperative associations as well as the marketing difficulties of bee products.

#### **5. Encouraging innovation role**

The results of the study showed that the responses of the respondents to the items of the role of encouraging the innovation carried out by the bee growers associations of (5) items obtained a weighted mean between (0.98 - 1.71) and a percentage weight between (49- 85.5) , While the weighted average for the role in general (1.31) degree, and a percentage weight of (65.5) degree, which is higher than the average mean of the scale of (1) degree, which indicates the interest of specialized associations to do this role, as in Table 6.

**Table 6. The views of the beekeepers on the encouraging innovation role of specialized associations**

No	Items	weighted Average	percent weight	Sort by importance	weighted average of role	percent weight of role
1-	The association introduces you to new innovations.	1.71	75.5	1		
2-	The association provides you with the information and knowledge necessary for innovation.	1.36	68	2		
3-	The association provides moral support for innovative beekeepers such as honor.	1.31	65.5	3	1.31	65.5
4-	The Association will facilitate your communication with sources of innovation for guidance, research and other organizations.	1.2	60	4		
5-	The Association provides material support to innovative beekeepers.	0.98	49	5		

The highest weighted mean was 1.71 degrees and a percentage weight of 85.5 degrees. This

may be attributed to the fact that all the extension activities carried out by the



association include the definition of members of the innovations and modern technologies in the field of beekeeping, whether local by the members of the association or from outside, It is also one of the basic objectives of the internal regulations of these associations. While the special item (providing material support for innovative beekeepers) received the lowest weighted mean of 0.98 and a percentage weight of 49 degrees. This may be due to the fact that most of the members' innovations are not commercialize in the commercial sense but ideas, of local materials, so the associations were only moral support and dissemination of innovations. Based on the results of the results, we accept the

hypothesis of research that provides for the specialized associations of beekeepers in several roles and the lion in the field of development of beekeeping in Iraq.

### **Objective 2. Identify the problems facing the specialized beekeeper's associations**

The results of the study showed that the respondents' answers to the problems of the scale of the problems of the specialized beekeepers associations (10) items, according to a triangular scale with the highest degree (20) degree, and the smallest degree (0) degree, ranged between (0.48 - 1.97), With a percentage weight ranging between (24% - 98.5%) degree, and as in Table 7.

**Table 7. The views of the board members on the problems facing specialized associations**

Rank in the questionnaire	Items	weighted Average	percent weighte	Sort by importance
2	Lack of funding sources for The association to carry out the tasks required.	1.97	98.5	1
6	Lack of administrative link with the government apparatus that provides support and advice to the association.	1.77	88.5	2
5	Poor attention to the role of cooperative associations.	1.62	81	3
4	The Association's lack of infrastructure (ants, a plant for the production of some beekeeping supplies, stores, etc)	1.55	77.5	4.5
7	Low level of cooperative awareness of many educators.	1.55	77.5	4.5
3	The absence of a legal framework imposes on other partys coordination with the association.	1.5	75	6
10	After the sites of associations about The educators who wish to benefit from them.	1.45	72.5	7
1	Lack of specialized administrative and accounting staff.	1.12	56	8
8	Absence and non-continuation of the Members of the Assembly from the meetings of the General Assembly.	0.97	48.5	9
9	Charges or taxes on the input of the Association	0.48	24	10

Table7 indicates that the lack of funding sources required for the associations to perform the required tasks came first with a weighted rate of 1.97 and a percentage weight of 98.5%. This may be due to the fact that the agricultural cooperatives in Iraq are independent cooperative organizations and most of it depends on the annual members' contributions, as well as the simple profit margin added to some of the production requirements provided by the Association of beekeepers, which are two sources for the

achievement of goals Which seeks to be achieved by these associations. While the item imposing fees and taxes on the inputs of specialized associations came in last place with a weighted rate of 0.84 and a percentage weight of 24%. The lack of associations' suffering from this problem may be attributed to the fact that the specialized associations do not have productive activities You need inputs and therefore have not faced an obstacle to high taxes on these inputs. Based on the results of the research we can conclude that

specialized associations play important roles in the development of beekeeping, but it needs material and moral support to do its job better.

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