

Investigation and Research on the Current Situation of Tennis Development in Colleges and Universities of Kunming

Zhonghua Yuan¹, Qing Li^{2,*}

¹ Kunming City College, Kunming, Yunnan Province, China

² Yunnan Agricultural University, Yunnan Province, China

*Corresponding author

Keywords: Kunming, Tennis in colleges and universities, Carry out, Status quo

Abstract: This paper investigates and analyzes the quantity, type, utilization, teachers' quality, courses, and factors influencing college students' participation in tennis in colleges and universities of Kunming. It gets a detailed understanding of the current situation of tennis development in colleges and universities of Kunming. What's more, it finds out the factors restricting the tennis development in colleges and universities of Kunming, and draws specific conclusions through the analysis of the survey data, and provides a theoretical basis for the tennis development of tennis in colleges and universities of Kunming.

1. Introduction

1.1 Research Object

This paper takes the current situation of the development of tennis in colleges and universities of Kunming as the research object.

1.2 Research Methods

1.2.1 Literature Review Method

The collection of more than 20 related documents in the CNKI and Wanfang Data provides theoretical support for the research.

1.2.2 Questionnaire Method

Questionnaires were distributed to 120 students from Yunnan Normal University, Kunming University, Yunnan Minzu University, Yunnan University, Kunming University of Science and Technology, and Kunming City College. 120 questionnaires were returned, and the recovery rate was 100%. There were 114 valid questionnaires, with an effective rate of 95%.

1.2.3 Interview Method

According to the research content, targeted interviews with tennis teachers and tennis students from 6 colleges and universities in Kunming were conducted.

2. Research Results and Analysis

2.1 The Quantity, Types and Utilization of Tennis Courts in Colleges and Universities of Kunming

2.1.1 The Number and Types of Tennis Courts in Colleges and Universities of Kunming

Site facilities are also a direct influencing factor. The quantity and quality of the courts affect the scale and quality of the development of tennis.

Table 1 Statistics Tennis Court Types in Universities and Colleges of Kunming

Name	Quantity	Indoor field	Outdoor field
Yunnan Normal University	12	4	8
Yunnan Minzu University	7	0	7
Yunnan University	5	0	5
Kunming University of Science and Technology	19	13	6
Kunming University	8	4	4
Kunming City College	2	0	2
Total	53	21	32

It can be seen from Table 1 that a survey of the courts of various universities shows that the total number of courts of the 6 universities surveyed is 53. Among them, there are only two colleges and universities with more than 10 courts, and 66.7% of them have less than 10 courts. Among them, the indoor court occupies 21 pieces and the outdoor court occupies 32 pieces. The largest number of tennis courts is 19 pieces, the least is 2 pieces. The largest number of indoor courts is 13. 50% of schools have no indoor courts. The largest number of outdoor courts is 8 pieces, the least is two. In terms of the total number, the distribution is not even and the number is not large, which leads to the serious phenomenon of lack of courts.

2.1.2 Operation and Opening of the Courts

With the continuous improvement of the market economy, the use of tennis courts in colleges and universities is also undergoing continuous reforms. Many colleges and universities have implemented the management strategy of paid use of tennis courts to achieve the goal of keeping the gymnasiums [1]. Because the maintenance and management of the site require funding, the use of a reasonable strategy for paid use of the site is a good management method [2].

Table 2 Operation Status Of the Courts

Name	Indoor charges	Outdoor charges
Yunnan Normal University	30-60 yuan/h	Free
Yunnan Minzu University	No courts	Free
Yunnan University	No courts	Free
Kunming University of Science and Technology	50-60 yuan/h	Free
Kunming University	30-60 yuan/h	5-15 yuan/h
Kunming City College	No courts	Free

The survey in Table 2 shows that beyond teaching hours, indoor courts are used not for free. Moreover, a small number of outdoor courts also charge. The highest indoor court charges are 50-60 yuan/h in Kunming University of Science and Technology. Further detailed investigation revealed that the fee for the court during the day is 50 yuan/h, and the fee for the evening hours and weekends is 60 yuan/h. The indoor charges of the other two schools are both 30-60 yuan/h. At the same time, a detailed investigation shows that the two schools are 30 yuan/h for their staff and students and 60 yuan/h for others. For the outdoor courts, only Kunming University charge people 5-15 yuan/h for use. 83% of the 6 schools open the outdoor courts for free, and the schools with charges are not high. They all follow the market rules to charge. This good operation means is conducive to the normal operation of the courts, and can meet the needs of students to play tennis.

Table 3 the Opening Situation of the Courts(n=53)

Opening forms	Open for free	Extracurricular fees
Yunnan Normal University	8	4
Yunnan Minzu University	7	0
Yunnan University	5	0
Kunming University of Science and Technology	6	13
Kunming University	0	8
Kunming City College	2	0
Total	28	25
percentage	52.8%	47.2%

It can be seen from Table 3 that there are two types of opening forms of tennis courts: all-day opening and extracurricular charge opening. Among the 6 schools surveyed, some of the courts of 5

schools are open all day for free. To meet the needs of the majority of tennis enthusiasts, the number of free opening courts is up to 8, and the number of chargeable opening courts is 13 at most in extracurricular time. From the perspective of a total of 53 courts, the number of courts that are free full-day opening is 28, accounting for 52.8% of the total. The number of courts that charge in extracurricular time is 25, accounting for 47.2% of the total. 83.3% of the schools have opened all day free of charge, so that the tennis courts can also be used well.

2.1.3 The Utilization of the Courts

Tennis courts are of special nature. They have a high construction cost and require specialized personnel to manage them. They must be cleaned and maintained regularly [3]. These all require financial support. Therefore, many indoor courts are for paid use and have special regulations.

Table 4 Utilization of Courts(n=53)

Utilization situation	Teaching and training	Teachers' activities	Competitions	Training courses for making money
Yunnan Normal University	12	0	0	4
Yunnan Minzu University	7	0	0	0
Yunnan University	5	0	0	0
Kunming University of Science and Technology	19	0	0	13
Kunming University	8	0	0	8
Kunming City College	2	0	0	0

It can be seen from Table 4 that the most important utilization of tennis courts in colleges and universities is teaching and training, and the rest are training courses for making money. The number of tennis courts used in teaching and training accounts for 100% of the tennis courts in colleges and universities, and the number of courts that are profitable externally accounts for 47.2% of the total number of courts and 50% of the number of schools. The 19 tennis courts of Kunming University of Science and Technology are used for teaching. Kunming University of Science and Technology is the one that uses the most courts for external profit. Schools with fewer courts are only used for teaching. According to the survey, it is found that the profitable courts are only used beyond teaching hours.

2.2 Investigation on the Status Quo of Tennis teachers' Quality in Colleges and Universities

2.2.1 Levels of teachers' Education Background

In the tennis education of colleges and universities, since tennis is a new sport in colleges and universities, it is definitely necessary to strengthen the construction of teachers' quality to develop this course. It directly determines whether the sport can be successfully developed in colleges and universities [4]. Tennis is generally developed in colleges and universities, and the tennis level of teachers will also determine the development level of college and university students.

Table 5 Educational Background Of Tennis Teachers in Colleges and Universities(n=29)

Name	Number of tennis teachers	Doctor	Graduates	Undergraduates
Yunnan Normal University	5	0	0	5
Yunnan Minzu University	5	0	2	3
Yunnan University	6	1	3	2
Kunming University of Science and Technology	8	0	4	4
Kunming University	4	0	3	1
Kunming City College	1	0	1	0
Total	29	0	13	15
Percentage	100%	3.4%	44.8%	51.7%

It can be seen from Table 5 that there are a total of 29 teachers in the 6 colleges and universities, only one has a doctoral degree, 13 have a graduate degree, and 15 have a bachelor degree. According to the results of the survey data analysis, it can be seen that 51.7% of the undergraduates have the most academic qualifications. The doctoral degree is only 3.4%. Most of their degrees are

between undergraduate and graduate, which also leads to the differences in their tennis teaching methods.

2.2.2 Age Structure

Table 6 Age Structure Of Tennis Teachers in Colleges and Universities of Kunming(n=29)

Name	Below 30	30-39	40-49	Above 50
Yunnan Normal University	0	1	0	4
Yunnan Minzu University	0	5	0	0
Yunnan University	3	1	1	1
Kunming University of Science and Technology	0	4	4	0
Kunming University	1	1	1	1
Kunming City College	0	1	0	0
Total	4	13	6	6
Percentage	13.8%	44.8%	20.7%	20.7%

From the survey data in Table 6, it can be seen that young teachers account for the largest proportion, and older teachers account for the least proportion. There are a total of 29 tennis teachers. Tennis teachers under the age of 30 account for 13.8% of the total number of teachers. Among them, those aged 30-39 account for 44.8%, and there are 13 in total. There are 6 teachers aged 40-49, accounting for 23.1% of the total. There are also 6 people over 50 years old, accounting for 23.1% of the total. According to the overall situation of the survey, tennis teachers in colleges and universities in Kunming tend to be younger.

2.3 The Status Quo of Tennis Courses in Colleges and Universities

2.3.1 The Settings of the Courses

From the situation of the 6 colleges and universities in the survey, it can be seen that tennis courses are divided into public elective courses and compulsory courses. Because all colleges and universities' elective courses are conducted in the freshman and sophomore year, the public physical education courses in colleges and universities basically end in the sophomore year. Due to the need to improve the technical level, teaching is different from training. The technical movements that students understand in the classroom are not enough to be solidly mastered in a limited number of hours. Only continuous practice outside of class can they improve their skills [4]. The results of the survey show that the compulsory tennis courses are twice a week per semester. The public elective courses are once per week.

During the teaching process of tennis lessons, students think that forehands and backhands are easier, serve is difficult. Tennis itself is a technical sport, and learners need to spend a certain amount of training time to achieve a certain training goal.

2.3.2 Survey of Tennis Teaching

Table 7 Questionnaire on Tennis Teaching (Semester/Class Hours) in Colleges and Universities(n=6)

Nature of the course	Compulsory courses	Elective courses	Public sports
Yunnan Normal University	1/36	3/288	1/36
Yunnan Minzu University	1/36	4/288	1/36
Yunnan University	1/36	2/108	1/36
Kunming University of Science and Technology	none	none	1/36
Kunming University	1/72	1/72	1/36
Kunming City College	1/36	3/256	0.5/18

According to the difficulty level of learning tennis skills, elective courses should be opened for more hours, and public courses should not only be opened for 18 hours. Colleges and universities should actively develop tennis teaching according to their own conditions to create better teaching methods to develop tennis. It can be seen from Table 7 that according to the actual number of tennis courses offered by colleges and universities, the most is 288 hours, the least is 72 hours. The compulsory courses offer 72 hours at most, and 36 hours at least. However, 83.3% of the teaching

of public courses are 36 hours, and only 16.7% are 18 hours.

2.4 Investigation and Analysis of the Status Quo of Tennis Competitions in Colleges and Universities

In colleges and universities in Kunming, the development of tennis competitions can check the students' tennis level and enhance their physical fitness. The improvement of the level of tennis can also be rapidly improved during the competition as well, so as to achieve the goal of developing tennis. Tennis competitions of colleges and universities in Kunming are of great significance in improving students' technical level, promoting campus harmony, and promoting tennis in colleges and universities.

The investigation revealed that all of the six schools had hosted tennis tournaments. However, these are small competitions spontaneously organized by the relevant departments of the schools or the student unions. The level of the competition is not high and they are all students from they own colleges or universities. Only one school has hosted inter-school competitions, accounting for only 16.7%. The reason for this situation is due to the constraints of the tennis court and the strong organization. Although the status quo of tennis competitions in colleges and universities has improved, the situation is not very good, and a good atmosphere for competition organization has not been formed.

2.4.1 The Situation of Students Participating in Tennis Events

The events held by colleges and universities are to promote the better development of tennis. It is also the standard for testing their skills. The results of the survey are not optimistic. Some students are afraid to actively participate in tennis events due to their own limited tennis skills.

Table 8 Students' Participation In Tennis Events(n=114)

Types	Intra-school events	Inter-school events	Other
Frequency	67	29	18
Percentage	58.8%	25.4%	15.8%

As can be seen from Table 8, 58.8% of the students in the sample survey only participate in intra-school tennis events, 67 students in total, accounting for the highest proportion. 25.4% of the students participate in inter-school events, while only 18 students participate in other events, accounting for 15.8% of the total. It can be seen that colleges and universities should organize more tennis events. More opportunities for students to communicate tennis skills. The continuous influence of the development of tennis has allowed the majority of students to feel the joy of tennis. Colleges and universities should actively encourage the friendship and learning exchanges between their students and students from other colleges and universities. At the same time, students should also be encouraged to actively participate in other amateur leagues, so as to promote the development of all aspects of tennis technology.

2.4.2 School Participation in Tennis Events

The tennis events that the school participates in is the events that the school is the representative unit to participate in [5]. It can be seen from the students participating in tennis events that almost no inter-school competition has been held. Only one inter-school competition has been held.

Participating in the events is also a good opportunity to improve the technical level. We should actively participate in the events to promote the better development of tennis.

2.5 Factors Affecting College Students' Participation in Tennis

Table 9 Investigation of Factors Affecting Tennis Sports for College and University Students(n=114)

Affecting factors	Number of people	Percentage
Short of courts	87	76.3%
No one to teach	72	63.2%
No time	38	33.3%
No interest	31	27.2%

Equipment is expensive	26	22.8%
Other	19	16.7%

It can be seen from Table 9 that the factors that affect college students' participation in tennis are as follows: the “lack of courts” accounts for 87 people accounting for 76.3%. The “no one to teach” factor accounts for 72 people accounting for 63.2%. Students who think they have no time accounts for 33.3%, and those who were not interested accounts for 27.2%. Those who think equipment is expensive accounts for 22.8%, and other factors accounts for 16.7%. It can be seen from the table that the “lack of court” factor accounted for the highest proportion of 76.3%, confirming that “no one to teach” and the “lack of courts” accounted for the main proportion. Colleges and universities should revise and improve the indexes which are affected by large factors according to actual situation.

3. Conclusion and Suggestions

3.1 Conclusion

Firstly, all colleges and universities in Kunming have launched tennis lessons and established courts. As there are not many tennis courts, they are not enough for students to use them normally. Some schools use the tennis court for a fee beyond teaching hours.

Secondly, there are not enough tennis teachers and some is lack of experience. These have a great influence on the tennis teaching. The teaching hours of tennis courses are short, which cannot meet the learning requirements of students.

Thirdly, the development of tennis is restricted by many factors. Students' participation in tennis is also affected by many factors. Both of them include the teachers' teaching levels and tennis facilities.

The last but not the least, the current situation of tennis competitions of colleges and universities is not very optimistic. Because they do not have a good organizational atmosphere, there are few inter-school competitions. The influence on students participating in the competition is seriously insufficient.

3.2 Suggestions

Firstly, according to the actual situation of colleges and universities, government, colleges and universities should further increase the number of tennis courts, improve the quality of tennis courts, and provide material guarantee for the better development of college tennis. They should also increase investment in infrastructure to promote the sustainable and healthy development of tennis in colleges and universities.

Secondly, colleges and universities need to strengthen the construction of their teachers and improve the professional level of teachers. They should establish training mechanisms, organize more training and learning, and continuously improve the professionalism of teachers. Having a professional team of teachers is the key to the successful development of tennis.

Meanwhile, it is also necessary to develop diversified tennis courses and increase the teaching hours of tennis courses.

Besides, it is important to cultivate students' interest in learning, provide a multi-channel learning platform, allow students to invest more in tennis, increase exchanges between students and teachers, and comprehensively promote the general development of tennis.

The last but not the least, more intra-school and inter-school tennis matches should be organized. More students should be actively encouraged to participate in the competition, so that their technical level can be improved through continuous learning.

References

[1] Qunfa Yuan. Research on the status quo and countermeasures of tennis development in colleges and universities in Chengdu [J]. Science & Technology of Stationery & Sporting Goods, 04, pp.23, 2014.

- [2] Yihang Zhang. Investigation and countermeasures of the current teaching situation of tennis elective courses in common colleges and universities in Chongqing [D]. Chongqing: Southwest University, 2013.
- [3] Hongbo Hu. Thoughts on the current situation and development of tennis in Chongqing's colleges and universities [J]. Innovation Education, 30, pp.138-139, 2013
- [4] Liang Chen, Jingfa Ran. Research on the current situation and countermeasures of tennis in Chongqing's colleges and universities [J]. 19, pp.54-55, 2012.
- [5] Shoudong Gao, Weihong Ding. Research on the present situation and countermeasures of tennis spots in colleges and universities of Anhui Province [J]. Sichuan Sports Science, 03, pp.138-140, 2007.