

Evaluation of Red Cultural Heritage Corridor Resources in the Jiangxi Section of the Red Army's Long March Based on AHP Method

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Abstract The literature analysis, data collection, and on-site exploration are conducted on 128 heritage nodes in the three historical event routes with linear characteristics at the Jiangxi section of the red army's long march. Combining their characteristics, protection status, heritage value, etc., a system framework for evaluating heritage corridor resources is constructed by integrating the analytic hierarchy process and Delphi method. On this basis, the weight values corresponding to each evaluation factor are accurately determined, and the comprehensive score of heritage resources is calculated based on the Rosenberg-Fishbein mathematical model formula. The login route, distribution area, protection level, and protection status are analyzed, providing a solid theoretical basis and scientific support for the scientific construction and effective protection of the red cultural heritage corridor in the Jiangxi section of the red army's long march.

Keywords Red army's long march, Jiangxi, Heritage corridor, Red cultural heritage, Heritage resource evaluation

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Since the 18th National Congress, the Party and the government have attached great importance to the protection and inheritance of red cultural heritage, and promoted the construction of a cultural power^[1]. As an important birthplace of the Chinese revolution, Jiangxi Province is known as the "cradle of the Chinese revolution" and contains extremely rich red cultural heritage resources within its borders. These red cultural heritages are precious witnesses of specific historical periods and precious spiritual wealth of the Chinese nation. To this end, Jiangxi Province has introduced a series of policies, such as the *Implementation Plan for the Protection and Utilization Project of Revolutionary Cultural Relics in Jiangxi Province* (2018–2022), the *Regulations on the Protection of Revolutionary Cultural Relics in Jiangxi Province*, the *Notice on further Strengthening the Protection and Utilization of Revolutionary Cultural Relics*, etc.^[2], to promote the protection and development of red cultural heritage in the form of authoritative policy documents.

At present, research on heritage corridors in China mainly focuses on the construction of heritage corridors^[3-4], the evaluation of corridor value^[5-6], and the protection, development, and utilization of heritage corridors^[7-8]. At present, in the field of research on the red cultural heritage of the red army's long march, there is a relatively lack of relevant research results. The academic research on this type of heritage is still insufficient, and a theoretical system and practical model with broad influence and guiding value have not yet been formed.

Therefore, by sorting out the relevant list of red cultural heritage, combining the characteristics of red cultural heritage corridor resources, using a comprehensive evaluation method for cultural heritage resources combining analytic hierarchy process (AHP) and Delphi method, based on the analysis of the current situation, protection level, historical route and spatial distribution of the red cultural heritage corridor resources in the Jiangxi section of the red army's long march, an evaluation index system for the heritage resources of the red cultural heritage corridor in the Jiangxi section of the red army's long march is constructed. Through comprehensive scoring results, the heritage resources are analyzed and evaluated, in order to provide a new perspective for the localization protection and inheritance of red cultural heritage and the rich development of linear cultural heritage protection theory.

1 Research objects and methods

1.1 Research objects

This study focuses on the red cultural heritage closely related to the historical events of the red army's long march in Jiangxi Province from October 1934 to October 1936, and limits the red cultural heritage to sites, relics, and commemorative buildings that reflect the revolutionary culture of the long march period. A comprehensive and systematic survey is conducted on a total of 128 red cultural heritage sites in the Jiangxi region along the long march, using methods such as literature analysis, field research, and website collection. These

heritages are mainly distributed geographically in 17 counties including Ruijin, Yudu, Xingguo, Shicheng, Ningdu, Huichang, Xunwu, Xinfeng, Dayu, Guangchang, Suichuan, Yongxin, and Jinggangshan. The spatial determination of this geographical area is based on three linear historical event routes of the red army in Jiangxi: the main line of the Central Red Army's long march history, the historical sub line of the Red Seventh Army's northward against Japan advance, and the historical sub line of the Red Sixth Army's assembly and westward expedition.

1.2 Research methods

1.2.1 Selection of evaluation indicators for heritage corridor resources and determination of indicator weights. Through literature review^[9-11], drawing on the evaluation system of linear heritage corridors such as the Grand Canal, combining existing cultural heritage corridor evaluation index factors, taking into account the actual situation of the long march cultural relics in Jiangxi, the following three aspects are comprehensively considered. Firstly, it should deeply evaluate the inherent value of heritage resources, covering multidimensional values such as historical culture, spiritual inheritance, educational research, artistic aesthetics, and landscape recreation. Secondly, it is necessary to comprehensively consider the development foundation of the area where the heritage resources are located, including the advantages of location and transportation, the quality of natural ecological environment, and the tourist carrying capacity of tourism infrastructure. Finally, a comprehensive review of the current

status of heritage resource protection, including key factors such as integrity, authenticity, and protection level, is conducted to form the evaluation project layer and factor layer.

Based on the judgment matrix of the relative importance of the evaluation criteria for heritage resources, the composite method is used to calculate and analyze the weights of factors at each level, thereby obtaining the weight values for the evaluation of the heritage resources of the red cultural heritage corridor in Jiangxi section of the red army's long march, as shown in Table 1.

1.2.2 Definition of comprehensive evaluation of heritage resources in heritage corridors. After determining the weights of each factor in the evaluation index system for the heritage resources of the red cultural heritage corridor in the Jiangxi section of the red army's long march, based on the constructed index system, the expert scoring method is used to assign scores to each factor, and the fuzzy scoring method is used to assign values. The standards are shown in Table 2.

Taking 128 material cultural heritage sites along the long march as objects, based on the detailed list of heritage resources in the red cultural heritage corridor in the Jiangxi section of the red army's long march, the Delphi method

is used to score relevant experts, scholars, and graduate students through filling out forms. A total of 20 valid questionnaires are distributed, and 15 valid questionnaires are actually collected. After calculating the fuzzy score through comprehensive scoring, the score is multiplied by the corresponding weight coefficient to obtain the comprehensive evaluation score. Finally, the Fishbein-Rosenberg model is used to calculate the evaluation results.

$$A = \sum_{i=1}^n S_i \cdot W_i$$

where A is the comprehensive evaluation value of corridor heritage resources; S_i is the fuzzy evaluation value of the i^{th} evaluation factor; W_i is the weight value of the i^{th} evaluation factor; n is the number of evaluation factors. The calculation results are shown as Table 3.

2 Results and analysis

2.1 Comprehensive evaluation results of heritage resources in the red cultural heritage corridor in the Jiangxi section of the red army's long march

Through qualitative analysis, it is found that heritage sites with a comprehensive score below 3 are mainly influenced by two factors. Firstly,

due to their age and insufficient protection, the old battle sites of Qiuji'ai and Jigongshan only have their names left, and specific information about the old sites is missing, to the extent that they have completely disappeared. Secondly, the sites such as the former site of the Shuanglong Ruokeng Red Army Hospital and the former site of the slogan civilian house have remote geographical location. The houses have aged for a long time, with old walls covered in a large amount of dust and debris, and some lime walls have even fallen off, resulting in poor overall preservation. Therefore, the 122 heritage sites with a score of 3 or above are identified as heritage nodes that constitute the red cultural heritage corridor in the Jiangxi section of the red army's long march. These nodes not only have outstanding heritage influence and value, but also have significant development potential in the construction and subsequent development and utilization of the corridor system.

2.2 Analysis on the overall composition of corridor heritage resources

2.2.1 Analysis on login routes of heritage resources. A total of 128 cultural heritage resources are surveyed and 122 are registered in the red cultural heritage corridor in the Jiangxi section

Table 1 Evaluation index system of heritage resources of the red cultural heritage corridor in Jiangxi section of the red army's long march and their weights

Evaluation project layer	Weight	Factor layer	Weight
Value of heritage resource	0.251 8	Historical and cultural value	0.410 5
		Spiritual inheritance value	0.286 2
		Value of scientific research and education	0.164 7
		Artistic and aesthetic value	0.043 5
		Landscape and recreation value	0.094 9
		Location and transportation conditions	0.633 4
Fundamentals of heritage development	0.079 9	Ecological environment conditions	0.106 2
		Service facility conditions	0.260 5
		Integrity of preservation	0.102 6
Current status of heritage protection	0.668 3	Authenticity of heritage	0.597 0
		Heritage protection level	0.253 2
		Current status of heritage scale	0.047 3

Table 2 Fuzzy evaluation scoring standards for heritage resources of the red cultural heritage corridor in the Jiangxi section of the red army's long march

Indicator	Score class//points				
	>8-10	>6-8	>4-6	>2-4	>0-2
Historical and cultural value	Very high	Higher	Moderate	Lower	Very low
Spiritual inheritance value	Very high	Higher	Moderate	Lower	Very low
Value of scientific research and education	Very high	Higher	Moderate	Lower	Very low
Artistic and aesthetic value	Very high	Higher	Moderate	Lower	Very low
Landscape and recreation value	Very high	Higher	Moderate	Lower	Very low
Location and transportation conditions	Very high	Higher	Moderate	Lower	Very low
Ecological environment conditions	Very high	Higher	Moderate	Lower	Very low
Service facility conditions	Very high	Higher	Moderate	Lower	Very low
Integrity of preservation	Very high	Higher	Moderate	Lower	Very low
Authenticity of heritage	More than 80%	70%-80%	60%-70%	50%-60%	Below 50%
Heritage protection level	World level (9)	National level (8)	Municipal level (6)	County level (4)	No level (2)
Current status of heritage scale	Very high	Higher	Moderate	Lower	Very low

Table 3 Login situation of red cultural heritage corridor resources in the Jiangxi section of the red army's long March

Heritage name	Protection level	Overall score	Location	Historical event
Former site of the central government of the Chinese Soviet Republic in the Yunshi Mountain	National level	9.623	Ruijin	Central Red Army's long march
Dongmen Ferry	National level	9.351	Yudu	Central Red Army's long march
Former site of the Central Red Army First Corps Headquarters	National level	9.118	Yudu	Central Red Army's long march
Former site of Jingtang Central Committee Branch and Central Government Office of the Communist Party of China	National level	8.852	Yudu	Central Red Army's long march
Former site of the Fifth Army Division of the Central Red Army	National level	8.624	Yudu	Central Red Army's long march
Former site of the Political Bureau of the Central Committee of the CPC in the Yunshi Mountain	Provincial level	8.612	Ruijin	Central Red Army's long march
Former site of the Communist Party of China Gannan Provincial Committee	National level	8.521	Ruijin	Central Red Army's long march
Former site of the Fujian Zhejiang Jiangxi Provincial Committee	National level	8.451	Hengfeng	Red Seventh Army's northward against Japan advance
Former site of the Hunan Jiangxi Provincial Committee of the Communist Party of China	National level	8.316	Yongxin	Red Sixth Army's assembly and westward expedition
Former site of Soviet Government in Gannan Province and former residence of Comrade Mao Zedong	National level	8.112	Yudu	Central Red Army's long march
Memorial site for three hundred martyrs of the Red Army's Northward Anti Japanese Advance Team	Provincial level	7.823	Dexing	Red Seventh Army's northward against Japan advance
Former site of the Expedition Oath Ceremony of the Guangcai Mountain Red Army Advance Division	Provincial level	7.775	Dexing	Red Seventh Army's northward against Japan advance
Shanfengba Ferry	Provincial level	7.652	Yudu	Central Red Army's long march
Nanmen Ferry	Provincial level	7.622	Yudu	Central Red Army's long march
Former site of the Red Army Playground Command Platform	National level	7.568	Hengfeng	Red Seventh Army's northward against Japan advance
Memorial site of the Chinese Workers' and Peasants' Red Army's Northward Anti Japanese Advance Team	Provincial level	7.562	Yushan	Red Seventh Army's northward against Japan advance
Former site of the Third Level Cadre Conference in Gannan Province	National level	7.560	Yudu	Central Red Army's long march
Former site of Luotang Negotiation	Provincial level	7.556	Xunwu	Central Red Army's long march
Former site of the Red Army Command Headquarters of the Gaohunao Battle	Provincial level	7.552	Guangchang	Central Red Army's long march
Former site of the Fifth Branch of the Chinese Workers' and Peasants' Red Army School (Xinjiang Military and Political School)	National level	7.523	Hengfeng	Red Seventh Army's northward against Japan advance
Former site of the Communist Party of China's Jiangxi Northeast Provincial Committee	National level	7.425	Hengfeng	Red Seventh Army's northward against Japan advance
Ximen Ferry	Provincial level	7.410	Yudu	Central Red Army's long march
Former site of the Military and Political Committee of the Red Tenth Army Corps	Provincial level	7.401	Dexing	Red Seventh Army's northward against Japan advance
Yuwengbu Ferry	Provincial level	7.305	Yudu	Central Red Army's long march
Wangjia Temple	Provincial level	7.256	Suichuan	Red Sixth Army's assembly and westward expedition
Former site of Luojiapu Red Ninth Army Headquarters (Luozi County Villa)	Provincial level	7.235	Guangchang	Central Red Army's long march
Mengkou Ferry	Provincial level	7.213	Yudu	Central Red Army's long march
Former site of Xintian Baishi Red Army Battle	County level	7.187	Xinfeng	Central Red Army's long march
The first bridge of the long march—Wuyang Bridge	-	7.121	Ruijin	Central Red Army's long march
Former site of Shicheng Blockade Command	Provincial level	7.112	Shicheng	Central Red Army's long march
Shiwei Ferry	Provincial level	7.078	Yudu	Central Red Army's long march
Liyu Ferry	Provincial level	7.078	Yudu	Central Red Army's long march
Former site of Lenin Park	National level	6.923	Hengfeng	Red Seventh Army's northward against Japan advance
Former site of Yunshi Mountain Marxist Communist School	Municipal level	6.901	Ruijin	Central Red Army's long march
Former site of Yunshi Mountain Supreme Court	Municipal level	6.852	Ruijin	Central Red Army's long march
Former site of Shitang Reorganization	Provincial level	6.851	Qianshan	Red Seventh Army's northward against Japan advance
Former site of the General Mobilization Armed Department of the Revolutionary Military Commission in the Yunshi Mountain	Municipal level	6.723	Ruijin	Central Red Army's long march
Former site of the emergency meeting of the Central Bureau under the Lashu tree	Provincial level	6.659	Yudu	Central Red Army's long march
Former site of the Central Bureau of the Communist Youth League of China (Ruijin Yunshishan Young Communist Party Central Bureau)	Provincial level	6.651	Ruijin	Central Red Army's long march
Former site of the Headquarters of the First Red Army Group in Gaoduo	Provincial level	6.621	Xingguo	Central Red Army's long march
Former site of the Central Branch of the Communist Party of China in Longquan	Provincial level	6.612	Yudu	Central Red Army's long march
Former site of the Central Land People's Committee	National level	6.595	Ruijin	Central Red Army's long march
Qingpin Garden (Qingpin Monument)	-	6.565	Yushan	Red Seventh Army's northward against Japan advance
Former site of the Red Fifth Army Corps Headquarters in the Battle of Xingguo County	Provincial level	6.553	Xingguo	Central Red Army's long march
Gaohunao Red Army Martyrs Memorial	Provincial level	6.548	Xingguo	Central Red Army's long march
Former site of the Military Commission Column Command Headquarters	-	6.532	Ruijin	Central Red Army's long march

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Table 3 Login situation of red cultural heritage corridor resources in the Jiangxi section of the red army's long March

Heritage name	Protection level	Overall score	Location	Historical event
Former site of the Soviet Government in Guangdong Jiangxi Province	Provincial level	6.528	Huichang	Central Red Army's long march
Chongxi Reorganization Monument	–	6.521	Dexing	Red Seventh Army's northward against Japan advance
Starting point of the long march for the Sixth Red Army in Niutian	–	6.462	Yongxin	Red Sixth Army's assembly and westward expedition
Former site of Yunshi Mountain National Bank	Municipal level	6.421	Ruijin	Central Red Army's long march
Former residences of Zhu De, Wang Jiaxiang, and Li De	Municipal level	6.325	Ruijin	Central Red Army's long march
Former site of Yunshi Mountain Central Workers' and Peasants' Drama Society	Municipal level	6.256	Ruijin	Central Red Army's long march
Dayu Reorganization Site	Provincial level	6.256	Dayu	Central Red Army's long march
Zhaikeng Chen Yi's hiding place	Provincial level	6.223	Dayu	Central Red Army's long march
Former site of Jingtang Central Financial and Economic Committee	Provincial level	6.145	Yudu	Central Red Army's long march
Former site of the Fujian Zhejiang Jiangxi Military Region Headquarters	Provincial level	6.132	Hengfeng	Red Seventh Army's northward against Japan advance
Former site of the Red Seventh Army Command and Political Department	Provincial level	6.122	Lichuan	Red Seventh Army's northward against Japan advance
Mao Zedong's former residence	–	6.122	Ruijin	Central Red Army's long march
Former site of the Red Fourth Army Headquarters in Yiqian	Provincial level	6.112	Guangchang	Central Red Army's long march
Former site of Yunshi Mountain Central Government Telephone Switchboard Room	Municipal level	6.081	Ruijin	Central Red Army's long march
Anxi Tongzigang Battle Site	County level	6.081	Xinfeng	Central Red Army's long march
Former site of Zengping Office	Provincial level	5.965	Yudu	Central Red Army's long march
Former site of Jingtang Office	Provincial level	5.965	Yudu	Central Red Army's long march
Former site of Shihan Office	Provincial level	5.965	Yudu	Central Red Army's long march
Red Army Cave	Provincial level	5.946	Suichuan	Red Sixth Army's assembly and westward expedition
Former site of the Third Operational Division of Jiangxi Military Region and the Command Headquarters of Guangdong Jiangxi Military Region	Municipal level	5.923	Huichang	Central Red Army's long march
Former site of the Red First Army Headquarters	–	5.921	Xingguo	Central Red Army's long march
Former site of Yunshi Mountain Central Printing Factory	Provincial level	5.862	Ruijin	Central Red Army's long march
Former Site of Yunshi Mountain Labor Committee	Municipal level	5.862	Ruijin	Central Red Army's long march
Former site of the Air Defense Department of the First Bureau of the General Staff Department of the Central Revolutionary Military Commission	Municipal level	5.826	Ruijin	Central Red Army's long march
Former site of Yunshi Mountain Post Office	Municipal level	5.826	Ruijin	Central Red Army's long march
Former site of the Hunan Jiangxi Province Rectification and Security Bureau	Provincial level	5.762	Yongxin	Red Sixth Army's assembly and westward expedition
The former site of the Yunshi Mountain National Economic People's Committee	Municipal level	5.662	Ruijin	Central Red Army's long march
Former site of Changling Conference	Municipal level	5.662	Dayu	Central Red Army's long march
Former site of the Soviet Government in Hunan Jiangxi Province	–	5.658	Yongxin	Red Sixth Army's assembly and westward expedition
Former site of the Pingbi Ridge Ambush Battle	Provincial level	5.622	Wuyuan	Red Seventh Army's northward against Japan advance
Former site of the Yueling Ambush Battle	Provincial level	5.622	Wuyuan	Red Seventh Army's northward against Japan advance
Former residence of Chen Yi	County level	5.592	Dayu	Central Red Army's long march
Former site of the Pingshan Red Third Army Headquarters	County level	5.592	Shicheng	Central Red Army's long march
Former site of the Guangdong Jiangxi Provincial Committee of the Communist Party of China	County level	5.585	Huichang	Central Red Army's long march
Red Army Outpost Site	Provincial level	5.568	Suichuan	Red Sixth Army's assembly and westward expedition
Former site of Yicun Village Battle	Provincial level	5.568	Wuyuan	Red Seventh Army's northward against Japan advance
Mao Zedong's former residence for camping in Juntianguao	County level	5.557	Xinfeng	Central Red Army's long march
Former site of the Red Army Hospital of the Guangdong Jiangxi Military Region	County level	5.553	Huichang	Central Red Army's long march
Chongxian Township Revolutionary Martyrs Cemetery	–	5.432	Xinfeng	Central Red Army's long march
Former site of the Red Army Hospital in Miaoqian	County level	5.362	Yudu	Central Red Army's long march
Former site of the Red Army's Long March—Weigaowei	County level	5.352	Xinfeng	Central Red Army's long march
Former site of the Gupi Battle	County level	5.326	Xinfeng	Central Red Army's long march
Former site of the Revolutionary Military Commission in Gupi	County level	5.295	Xinfeng	Central Red Army's long march
Former site of the Yunshi Mountain Workers' and Peasants' Inspection People's Committee	–	5.251	Ruijin	Central Red Army's long march
Mao Zedong's former residence in Wenwu Dam	County level	5.238	Huichang	Central Red Army's long march
Former site of Ruan Xiaoxian's Breakout Battle	County level	5.232	Xinfeng	Central Red Army's long march
Former site of Chongxian Red 21 st Division Headquarters (Songyin Temple)	–	5.232	Xingguo	Central Red Army's long march
Former site of the establishment of the Eighth Army Corps of the Chinese Workers' and Peasants' Red Army	–	5.112	Xingguo	Central Red Army's long march
Soviet air raid shelter	County level	5.112	Huichang	Central Red Army's long march
Gaoxingwei Battle Monument	–	5.015	Xingguo	Central Red Army's long march
Former site of New Town Revolutionary	–	5.013	Jinggangshan	Red Sixth Army's assembly and westward expedition
Former site of the Shibe Pursuit Battle	–	4.985	Xinfeng	Central Red Army's long march
Da'a Town Revolutionary Martyrs Cemetery	–	4.951	Xinfeng	Central Red Army's long march

(Continued)

Table 3 Login situation of red cultural heritage corridor resources in the Jiangxi section of the red army's long March

Heritage name	Protection level	Overall score	Location	Historical event
Nanbao Battle	—	4.932	Zixi	Central Red Army's long march
Former site of Red Army Hospital	—	4.912	Yongxin	Red Sixth Army's assembly and westward expedition
Anyuan Revolutionary Martyrs Memorial	—	4.895	Anyuan	Central Red Army's long march
Former Site of the Red 12 th Division Headquarters	—	4.895	Ningdu	Central Red Army's long march
Former site of Clothing Factory of Hunan Jiangxi Military Region	—	4.852	Yongxin	Red Sixth Army's assembly and westward expedition
Tomb of the unknown martyr on the bridge	—	4.875	Xinfeng	Central Red Army's long march
Former site of the Command Headquarters of the First and Third Red Army Corps (Wenfeng Academy)	—	4.875	Guangchang	Central Red Army's long march
Former site of Jinji Battle	County level	4.812	Xinfeng	Central Red Army's long march
Former site of the Red Army House of the Workers' and Peasants' Red Seventh Army Corps	—	4.756	Guixi	Red Seventh Army's northward against Japan advance
Former site of the Red Ninth Army's assembly and departure for rest and recuperation	—	4.723	Huichang	Central Red Army's long march
Former site of Yangkou Ferry	—	4.562	Dayu	Central Red Army's long march
Li Letian's Martyrdom Site	County level	4.231	Xinfeng	Central Red Army's long march
Lanxi Ferry Ruins	—	4.223	Dayu	Central Red Army's long march
Tieshikou Long March Ferry Crossing	County level	4.117	Xinfeng	Central Red Army's long march
Shizhaiwei Long March Ferry Crossing	County level	4.012	Xinfeng	Central Red Army's long march
Peidong Long March Ferry Crossing	County level	4.001	Xinfeng	Central Red Army's long march
Luotian Red Army Long March Base	—	3.912	Xinfeng	Central Red Army's long march
Former residence of Martyr Fang Zhimin	—	3.856	Yiyang	Red Seventh Army's northward against Japan advance
Shangrao Special Zone Revolutionary Martyrs Monument	—	3.684	Xinzhou	Red Seventh Army's northward against Japan advance
Former site of the Red Ninth Army's rest and recuperation in Xiazhao	—	3.478	Huichang	Central Red Army's long march
Former site of Shuanglong Ruokeng Red Army Hospital	—	3.462	Xingguo	Central Red Army's long march
Lichuan Xunkou, Zifuqiao, and Tuancun Battle Sites	—	3.214	Lichuan	Central Red Army's long march
Zixi Bridge Battle Site	—	3.012	Zixi	Central Red Army's long march
Red army's slogan room in Dawuxia	County level	2.856	Xinfeng	Central Red Army's long march
Red army's slogan room in Tianlongli	—	2.523	Xinfeng	Central Red Army's long march
Red army's slogan room in Tantoushui	—	2.466	Xinfeng	Central Red Army's long march
Red army's slogan room in Zhucun	—	2.302	Xinfeng	Central Red Army's long march
Qiuji'ai Battle Site	—	2.056	Lichuan	Central Red Army's long march
Jigong Mountain Battle Site	—	1.902	Lichuan	Central Red Army's long march

of the red army's long march. The first historical mainline—the Central Red Army's long march has 99 heritage resources, with 93 recorded. The second historical subplot—the Red Seventh Army's northward anti Japanese advance team has 19 locations, with 19 recorded. The third historical subplot—the assembly and western expedition of the Red Sixth Army has 10 places, with 10 registered. Through the comparative analysis between the census and registered heritage resources of three historical routes, it can be concluded that the long march of the Central Red Army, as the main historical line, has the richest heritage resources. The 93 resources surveyed and registered fully prove its important position in red culture. The Red Seventh Army Group's northward advance against Japan and the Red Sixth Army Group's assembly and westward expedition serve as historical secondary lines. Although the resources are relatively small, they have also been comprehensively surveyed and recorded. According to investigation and statistics, the heritage resource registration of the three historical routes is excellent, laying a solid foundation for the systematic protection and scientific management of red cultural heritage

resources of the red army's long march in Jiangxi Province in the future.

2.2.2 Analysis on the distribution areas of heritage resources. The 122 cultural heritage resources registered in the red cultural heritage corridor in the Jiangxi section of the red army's long march involve 21 counties (cities) in 5 cities. There are 84 login sites in Ganzhou City, including 21 in Ruijin City, 20 in Yudu County, 17 in Xinfeng County, 8 each in Huichang County and Xingguo County, 6 in Dayu County, 2 in Shicheng County, 1 in Xunwu County, 1 in Anyuan County, and 1 in Ningdu County. There are 18 registration sites in Shangrao City, including 6 in Hengfeng County, 4 in Dexing City, 3 in Wuyuan County, 2 in Yushan County, 1 in Qianshan County, 1 in Xinzhou District, and 1 in Yiyang County. There are 8 login sites in Fuzhou City, including 4 in Guangchang County, 2 in Lichuan County, and 2 in Zixi County. There is 1 login site in Yingtan City, which is in Guixi City. There are 10 login sites in Ji'an City, including 6 in Yongxin County, 3 in Suichuan County, and 1 in Jinggangshan City. Ganzhou City has the highest number of registrations, with Ruijin and Yudu being the starting and

gathering points of the Central Red Army's long march as the first, accounting for nearly 35%.

2.2.3 Analysis on the protection level of heritage resources. According to census data, there are 122 cultural heritage resources registered in the red cultural heritage corridor in the Jiangxi section of the red army's long march. The protection levels are as follows: 15 national key cultural relics protection units, 42 provincial cultural relics protection units, 14 municipal level cultural relics protection units, and 19 county-level cultural relics protection units; there are also 32 cultural relics resources that have not yet been graded.

From this, it can be seen that there are more than half of the cultural relics protection units at or above the municipal level in the corridor, of which 60% are at the provincial protection level, reflecting the overall high protection level of the corridor's heritage resources. However, nearly 24% of heritage resources have not yet been included in the statutory protection system, and there is an urgent need to accelerate the classification application work and improve the classification protection mechanism. In order to avoid further damage caused by natural or human activities, it is necessary to formulate

feasible cultural relic protection plans and schemes as soon as possible, and urgently carry out reconstruction or restoration protection work in the future. These unclassified cultural relics should be included in cultural relic protection units as soon as possible, so that historical and cultural heritage can be inherited and continued.

2.2.4 Analysis on the current situation of heritage resource protection. Among the 122 cultural heritage sites registered in the red cultural heritage corridor in the Jiangxi section of the red army's long march, in addition to their well preserved condition, 52 sites have formed a relatively good historical landscape pattern as a whole (Dongmen Ferry, Yunshi Mountain Revolutionary Site Group, Yudu Central Committee Branch, Central Government Office Site Group, etc.). There are 34 well protected and relatively intact historical sites (such as the Kaixingwei Battle Monument, the former site of the Shicheng Blockade Command, and the former site of the Red Fourth Army Command in front of the post). There are 28 places with general protection status, but intact local historical features (such as the former site of the Red Ninth Army's assembly and departure, the former site of the Chongxian Red 21st Division Headquarters, etc.). There are 8 other sites with poor protection status and serious historical damage (Lichuan Xunkou, Zifuqiao, Tuancun Battle Site, former site of Xiazhao Red Ninth Army Corps Rest, etc.).

From the above analysis, it can be concluded that the current status of cultural heritage protection is closely related to its level of protection. In terms of protection level, cultural heritage at low level (such as county-level or unclassified) is poorly protected, while provincial-level and some municipal-level and county-level cultural heritages are well protected, and the protection of cultural heritage at national level and some provincial level are the best.

3 Conclusions

By combining the spatiotemporal distri-

bution characteristics of heritage resources, the development foundation of heritage resources themselves, and the inherent requirements for constructing heritage corridors, a hierarchical structure model is constructed. It determines the evaluation index system for the red cultural heritage corridor resources in the Jiangxi section of the red army's long march, which includes 12 indicator factors from three aspects: the value characteristics of heritage resources, the development foundation of heritage resources, and the protection status of heritage resources. The analytic hierarchy process (AHP) is used to conduct a systematic evaluation of the 128 heritage resources obtained from the census. An evaluation index system is constructed, and the weights of each factor are determined. Combined with Delphi expert consultation, a comprehensive score is given. Finally, 122 heritage resources are determined to be included in the registry through qualitative analysis.

After a systematic analysis of the red cultural heritage resources in the corridor, it is found that adopting a protection strategy with hierarchical classification and orderly management has a significant effect on improving the effectiveness of cultural heritage protection work; cultural heritage that is older and carries rich historical information is particularly precious due to its unique historical value and scarcity. With the expansion of the scope of heritage resource protection, the protection work is also facing more complex challenges, and the difficulty of protection is showing a significant upward trend. It hopes that the research can promote the attention of people from all walks of life to the red cultural heritage and their contemporary understanding of the long march spirit. At the same time, it strives to use this as an opportunity to explore the protection and utilization of revolutionary cultural routes with Chinese characteristics.

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