

Code _____

Checker _____

The functional evolution and functional value calculation of rural homestead in hilly and mountainous areas of southwest China

Household questionnaire

Survey location: _____ County (District) _____ Township (town) _____ Village

Name of respondent: _____ Tel: _____

Investigator: _____ Tel: _____

Investigation time: _____

Table S1. Family members (____)

Total household population at the end of 2019 is ____; The nearest distance between the homestead and the market is ____Km; The distance from the nearest motorway is ____Km.

Code		Family members						
		1	2	3	4	5	6	7
1	Relationship with the head of household (1. Head of household 2. Spouse 3. Children or their spouses 4. Grandchildren or their spouses 5. Parents 6. Grandparents 7. Brothers and sisters 8. Others)							
2	Gender (1. male 2. female)							
3	Ethnic group (1. Han 2. Hui 3. Miao 4. Hani 5. Dai 6. Yi 7. Dong 8. Tujia 9. Gelao 10. Manchu 11. others)							
4	Household registration type (1. Agriculture 2. Non agriculture 3. No household registration)							
5	Age (years)							
6	Health status (1. No disease 2. Disease, please specify the specific disease)							
7	Education level (1. Illiterate 2. Primary school 3. Junior high school 4. High (vocational) middle school 5. College and above 6. Preschool age)							
8	Village cadre or not (1. Yes 2. No)							
9	CPC member or not (1. Yes 2. No)							
10	Main occupation (multiple choices) (1. Farming ¹ =>11 2. Agricultural worker ² =>12 3. Large professional/family farmer ³ =>14 4. Agricultural business owner ⁴ =>16 5. Self supporting industrial and commercial owner ⁵ =>19 6. Migrant workers =>21 7. Students 8. Domestic workers 9. Loss of labor ability 10. Workers in enterprises and institutions =>23 11. Others, please specify)							

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- 1 Farming: One is to plant one's own land, the other is to rent other people's land to plant one's own and rarely employ temporary agricultural workers.
- 2 Agricultural workers: Workers who work for large professional households, family farmers and farmers' cooperatives and earn income
- 3 Professional large household or family farm: A farmer who rents other people's land to engage in agricultural and animal husbandry activities and employs agricultural workers for a long time, while the family farm will temporarily employ many agricultural workers.
- 4 Agricultural enterprise: In the form of establishing a company, it engages in agricultural and animal husbandry activities integrating the planting, processing and sales of agricultural products by renting other people's land and employing agricultural workers for a long time
- 5 Self supporting industry and Commerce: Farmers use their own homestead to engage in commercial service industry and other production operators based on themselves and their family labor force.

11	Total farming time (month)							
12	What specific jobs are agricultural workers mainly engaged in?							
13	Average wage of agricultural workers (yuan / day)							
14	What kind of specific business does a large professional or family farmer mainly engage in?							
15	Annual average income of professional large family or family farmers (yuan / year)							
16	What specific business does the agricultural business owner mainly engage in?							
17	Total working time of agricultural enterprise owner (month)							
18	Average annual income of agricultural enterprise owners (yuan / year)							
19	What specific business does the owner of self operated industry and commerce mainly engage in? (shops, restaurants, hotels, agritainment, homestay, etc.)							
20	Annual average income of self operated industrial and commercial owners (yuan / year)							
21	What is the specific occupation of migrant workers?							
22	Annual average income of migrant workers, including bonus and allowance (yuan / year)							
23	What is the specific occupation of workers in enterprises and institutions?							
24	Fixed salary of enterprises and institutions (month)							
25	Performance and bonus of enterprises and institutions (year)							

Table S2. Household income and expenditure (____)

Table S2-1. Annual household income

Category		Amount (yuan)	Category		Quantity (mu)	Subsidy standard (yuan / mu)	Amount (yuan)
Total agricultural income	Total income of planting industry (corn, potato, flue-cured tobacco,		Subsidy income	Comprehensive agricultural subsidies (direct grain			

	etc.)		subsidies, etc.)			
	Sales income of breeding industry (pigs, cattle, sheep, chickens, ducks, etc.)		Subsidy for returning farmland to forest (grassland)			
	Sales income from forest and animal husbandry planting (economic forest or pasture, etc.)		Endowment insurance (subsidy) (yuan / year)			
	Orchard sales revenue (apple, pear, apricot, etc.)		Rural cooperative medical insurance (subsidy) (yuan / year)			
Operating income of homestead commercial service	Shop		Subsistence allowance (yuan / year)			
	Agritainment / Restaurant		Disability subsidy (yuan / year)			
	Homestay / Hotel		Other subsidies (Building subsidies, agricultural machinery subsidies, agricultural insurance, tree planting subsidies, cash crop subsidies, pigs, sheep and other subsidies)			
Income of agricultural workers						
Income from migrant workers						
Income from land transfer out						
Wage income						
Other income (Such as cash gift, share dividends, etc.)						

Table S2-2. Annual household expenditure

Category	Amount (yuan)	Category	Amount (yuan)
Daily life		Medical care	
Land rent		Education	
Aquaculture input		House building / purchase	
Planting input		Purchase vehicle ⁶	
		Operating expenses of homestay (agritainment)	

⁶ Vehicles mainly include battery cars, motorcycles, automobiles and other nonagricultural vehicles.

Table S3. Utilization of rural homestead

Currently living homestead	Whether have property right card		Residential floor (which floor)	
	Homestead area(m ²)	House area_____, Courtyard area_____, Woodland area around the homestead_____, Vegetable field area_____, Breeding enclosure area_____, Homestay room_____, Area per room_____		
	House Structure	1. Civil structure, 2. Adobe structure, 3. Brick and wood structure, 4. Stone and wood structure, 5. Brick-concrete structure		
	Build time		Expected service life (years)	
	Construction or renovation cost (Ten thousand yuan)		Present value estimation (Ten thousand yuan)	
	Whether collapse	1. Yes, collapsed (1/2, 1/3, already collapsed), 2. No		
	Current use/function	1. Living. 2. Storing things. 3. Raising livestock. 4. Renting (rooms). 5. Commercial service operations (stores, restaurants, hotels, farmhouses, bed and breakfasts, etc.).		
	Whether you are willing to put the price of your home base into the stock	1. Willingness. 2. Reluctance; the reason is _____		
	Willingness to reclaim homesteads	1. Willingness. 2. Reluctance, the reason (Constraints) is _____		
Excess homestead	Whether have property right card			
	Homestead area(m ²)	Account area_____, Housing land area_____, Ancillary area (courtyard, forest, etc.)_____		
	House Structure	1. Civil structure, 2. Brick and wood structure, 3. Stone and wood structure, 4. Brick-concrete structure		
	Build time		Construction or renovation cost (Ten thousand yuan)	
	Present value estimation (Ten thousand yuan)			
	Whether collapse	1. Yes, collapsed (1/2, 1/3, already collapsed), 2. No		
	Current use/function	1. Living, 2. Storing things, 3. Raising livestock, 4. Renting (rooms), 5. Commercial service operations (stores, restaurants, hotels, farmhouses, bed and		

		breakfasts, etc.).
	Homesteads reclamation willingness	1. Willing, 2. Reluctance, the reason (Constraints) is _____
When did the function of the home base evolve significantly (annual)		
What was the main function before the evolution (multiple choices possible)		1. Living accommodation, 2. Agricultural production (storage, breeding, handicraft workshops, yard planting, etc.), 3. Commercial service operation (stores, restaurants, hotels, farmhouses, etc.), 4. Other
Do you understand the "one house per family" policy?		1. Yes, 2. Just heard about it, 3. No
How satisfied you are with your current living situation?		1. Very satisfied, 2. More satisfied, 3. General, 4. Less satisfied, 5. Very dissatisfied
Aspects of dissatisfaction		1. Road traffic, 2. Upstream and downstream water, 3. The school, 4. Communication, 5. Medical treatment, 6. social security, 7. The environment; 8. Power, 9. Other
If the demolition or renovation, how do you expect the government to subsidize?		1. Cash compensation, 2. Give buildings, 3. Cash compensation combined with buildings, 4. Others_____
If the government encourages you to move into a building, what policies do you think the government should implement first?		1. Medical insurance, unemployment insurance, endowment insurance and other insurance, 2. Provide stable urban jobs, 3. Help children with schooling 4. Others_____
Are you satisfied with the new village house? (If have the case, you can ask)		1. Very satisfied, 2. More satisfied, 3. General, 4. Not very satisfied, 5. Not very satisfied
Reason for dissatisfaction (If have the case, you can ask)		1. The residential area is too small, 2. The farming radius is large, which is inconvenient for farming, 3. It is inconvenient for farming, 4. The function of the homestead cannot meet the needs, 5. The living infrastructure is not complete

**Table S4. Interior structural of the current residential rural
homestead**

Homestead structural			Length	Width	Area	Remark
Total area of homestead						
Main room	Bedroom	Bedroom 1				
		Bedroom 2				
		Bedroom 3				
		Bedroom 4				
		Bedroom 5				
		Total (self-fill)				
	Living room	Room 1				
		Room 2				
		Total (self-fill)				
Lumber room	Used to store farm tools					Whether (or not) to use
	Used to store grain					
	Used to store firewood or coal					
	Others					
Ancillary facilities room	Dining room					
	Kitchen					
	Toilet					
Livestock room (It is need to indicate whether to use in the remarks column)	Livestock room					
Vegetable, orchard patch, etc. in the rural homestead	Vegetable patch					
	Orchard patch					
Area of structure	Base area					
	Building area					
Room for rent (Fill in according to Form 2)	Used for both industry and commerce					
	Rent out	Area				
		Rent (room/month)				

Note: Base area is the floor area of the building. Building area is the total area of the floors measured from the external walls, and the area is equal to the length times width, and then times the number of layers.