2-3

029-87091077

https://cem.nwafu.edu.cn/syjxzx/

2019 6

1. “ ”
2.

1.

1-1

—— 985 211

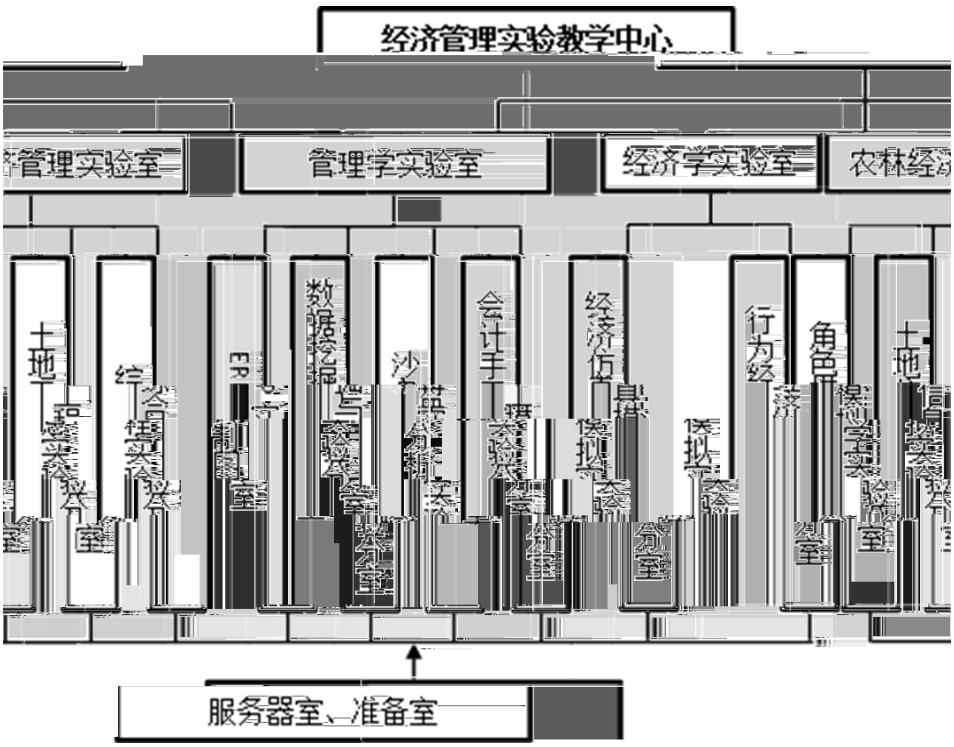
80

1936

2000

1999

1936 á) 2017 ª+`#ÔÚ > 2017 985 211



1-1

1224 519

343.11 35 432.43

40 290 15

56 10 27 6 23

46 4 9 2600

274 SSCI SCI EI 68 20

12 5 7

32 1 3 28

233 3462.2 33 67

2

9

2016

300

2

1

620

ERP

2

1224

ERP

10 519

40

5

4

99.8%

3

2002 289

2005 142

2005 270

1 2002 289

2 2002

289

3 2002 289

4 2003

149

5 2003 149

6 2003 1

7 2003 1

8 2003 1

9 2003 1

10 2003 1

11 2003 1

12 ( ) 2003 69

13 ( ) 2003 69

14

2004 300

15 2005 179

16

2005 224

17 2005 225

18 2005 340

19 2005 142

20 2005 270

21 2005 270

22 2005 270

23 2006 303

24 2006

303

25 2007 04

26

2007 04

27 2008 141

28

2009 69

29

2009 70

30

2009 166

31

2009 291

32
2010 361
33 2010 114
34 2010 232
35 2014-2020
36 2014 94
37 2014 427
38
2016 414
39 2016 419
40 2016 34
41 2017
115
1
2
3
4
5
6
7
8
9
10
11
12

2.

1-1

1		314.94		
2		61.12		

3

4						151	4832
5						53	1696
6						44	1408
7						50	1600
8						50	1600
9						56	896
10						29	928
11						28	896
12						58	2436
						91	2912
13						72	2304
						166	5312
						65	2080
						60	1920
						33	1056
						67	2144
						54	1728
						63	2016
						35	1120
14						65	1040
15						61	1952

16						63	1008
17						55	2640
18						55	880
19						95	1520
20						149	4768
21						76	2432
22						69	2208
23						33	1056
24						32	1024
25						160	5120
						102	3264
26						104	3328
						99	3168
						96	3072
						64	2048
						64	2048
						51	1632
						55	1760
						64	2048
27						63	2016

			44	1408
			44	1408
			27	864
			34	1088
			95	3040
			61	1952
			63	2016
			44	1408
			24	768
			55	880

+

2-4

1.

2.

2014

2005 179

2005 225

2010 232

2014 8

3.

1

2014

40

2

(

) ( )

SPSS SAS

Matlab Lindo Lingo

ERP

ERP

3

4

5

——

20

6

100%　　99.8%

	18	EViews8		4	
5	19	Excel1		4	
	20	Excel2		4	
	21	Excel3		4	
	22	Excel4		4	
	23	Excel5 —		4	
	24	Excel6		4	
	25	Excel7		4	
	26	Excel8		4	
6	27			2	
	28			6	
	29			4	
	30			16	
	31			2	
	32			2	
7	33			2	
	34			8	
	35			6	
	36			6	
	37			6	
	38			4	
8	39			2	
	40			2	
	41			2	
	42			2	
	43			2	
	44			2	
	45			2	

	46			2	
	47			4	
	48			8	
	49			4	
	50			4	
	51			8	
	52			4	
	53			8	
	54			8	
9	55	Mathematical		4	
	56	Mathematical		4	
	57	Mathematical		4	
	58	Mathematical		4	
	59	Mathematical		4	
	60	Mathematical		4	
	61	Mathematical		4	
	62			4	
10	63	AutoCAD 2008		2	
	64			2	
	65			4	
	66			6	
	67			6	
	68			2	
	69			6	
	70			4	
	71			2	

11	72			4	
	73			4	
	74			4	
	75			4	
	76			4	
	77			12	
12	78			4	
	79			6	
	80			6	
	81			4	
	82			4	
	83			4	
	84			4	
13	85			4	
	86	STP		8	
	87			6	
	88	4PS		14	
14	89	Excel		4	
	90	Excel		4	
	91	SPSS		4	
	92	SPSS		4	
	93	PPT		4	
	94			12	
15	95			4	
	96			8	
	97			4	
	98	1		8	
	99	2		8	

16	100			4	
	101			4	
	102			6	
	103			6	
	104			6	
	105			6	
17	106			4	
	107			6	
	108			6	
	109			4	
	110			8	
	111			4	
18	112			2	
	113			2	
	114			2	
	115			2	
	116			4	
	117			4	
19	118	Eviews		4	
	119			4	
	120	ARMA		4	
	121			4	
	122			4	
	123	GARCH		4	
	124	VAR		4	
	125			4	
20	126	ArcGIS		1	
	127			2	
	128			2	
	129	ArcGIS		2	

	130	ArcGIS		2	
	131			2	
	132			1	
	133			2	
	134			2	
	135			2	
	136			2	
	137			2	
	138			2	
	139			2	
	140			2	
	141	DEM		2	
21	142	R		4	
	143	R		4	
	144			4	
	145	VaR		4	
	146	ARMA		4	
	147	GARCH		4	
	148			4	
	149			4	
	150			4	
	151			4	
	152				

22

	160			8	
	161			8	
24	162			2	
	163			2	
	164			8	
	165			8	
	166			12	
25	167			4	
	168			4	
	169			4	
	170			2	
	171	UFO		4	
	172			4	
	173			4	
	174			6	
26	175			2	
	176			2	
	177			2	
	178			2	
	179			4	
	180			2	
	181			2	
27	182	WinQSB		2	
	183			2	
	184			2	
	185			2	
	186			4	
	187			4	

28	188	Excel		4	
	189			4	
	190			4	
	191			8	
	192			4	
	193			4	
	194			4	
29	195			2	
	196			4	
	197			4	
	198	—		2	
	199	—		2	
	200	—		2	
	201	—		2	
	202			4	
	203			4	
	204			4	
	205			2	
30	206			2	
	207			2	
	208			2	
	209			2	

	218			4	
	219			4	
	220	01		2	
	221			2	
	222			8	
	223			8	
32	224			4	
	225			4	
	226			4	
	227	SWOT		4	
	228			4	
	229			4	
	230			4	
	231			4	
33	232			4	
	233			4	
	234			4	
	235			4	
	236			4	
	237			4	
	238			4	
	239			4	
34	240			6	
	241			8	
	242			6	
	243			4	
	244			8	
35	245	—		4	
	246	—		4	

	247	—		4	
	248			4	
36	249			20	
	250			20	
	251			22	
	252			22	
	253			36	
37	254			2	
	255			2	
	256			4	
	257			4	
	258			6	
	259			4	
	260			6	
	261			4	
38	262			2	
	263			2	
	264			2	
	265			12	
	266			6	
	267			8	
39	268	ERP		18	
	269	ERP		18	
40	270			20	
	271			10	
	272			2	
41	273			2	
	274			2	
	275			2	
	276			4	
	277			4	

	278			4	
	279			4	
	280			4	
	281			4	
	282			2	
42	283	Project 2013		4	
	284			4	
	285			4	
	286			4	
	287			4	
	288			4	
	289			4	
	290			4	
43	291			4	
	292			4	
	293			4	
	294			4	

2-5

1 —

— —

2

3

4

PBL

2-6

11

1 1 4

32 22 17

11 10 20

12 5 7

1 1

1 1

1 1

4 2 4 8

2

2-7

1.

2.

3.

3.

						48

029-87081398

3-1

		2005.8-2009.8 (University of Connecticut) 1993.7-1998.12 1998.12-2002.12 2002.12-2009.10 2009.10- 2010.4-2014.10 2014.10-
	(5)	1971 1 University of Connecticut USA

		China Economic Review China Agricultural Economic Review Ecological Economics 1. 2013 [1]. 15ZDA052 2015.7-2017.6. [2]. (71373209), 2014.1-2017.12. [3]. (71073128), 2011.1-2013.12. [4]. (2014GXS3D044), 2015.1-2016.12 [5]. 2017.1-2020.12 [6]. (2016ZDA14) 2016.1-12. [7]. 2014.1-2017.12. [8].

		2017.10-2019.10. [9]. 2018.8-2019.8. [10]. Japan International Research Center for Agri-cultural Sciences JIRCAS Elucidation of value in the current production and distribution of buckwheat 2016.4-2020.3. [11]. STS 2014.1-2015.12. [12]. , 2011.1-2013.12., [13]. 2013RWZD02 2013.5-2016.5. [14]. , 2014.6-2015.12. [15]. 2017.7-12. **2. (2013)** [1].Liuyang Yao, Robert Johnston, Zhao Minjuan*, Evaluating willingness to pay for the temporal distribution of different air quality improvements: Is China's clean air target adequate to ensure welfare maximization?, Canadian Journal of Agricultural Eco-nomics, (forthcoming) 2019. [2].Imran Khan, Minjuan Zhao* Water resource management and public preferences for water ecosystem services: A choice experiment approach for inland river

basin management, Science of the Total Environment, forthcoming 2019,646:821-831.

[3].Liu P, Yin R, Zhao M*,Reformulating China's ecological restoration policies: What can be learned from comparing Chinese and American experiences? Forest Policy & Economics, forthcoming 2019,98:54-61

[4].Aregay Fanus A., Zhao Minjuan*, Xu Tao. Knowledge, attitude and behavior of farm-ers in farmland conservation in China: an application of the structural equation mod-el[J]. Journal of Environmental Planning and Management, 2018, 61(5):1-23.

[5].Imran Khan, Zhao Minjuan*.Water resource management and public preferences for water ecosystem services: A choice experiment approach for inland river basin man-agement[J]. Science of the Total Environment, 2018, 646(7):821–831.

[6].Imran Khan; Zhao Minjuan*, Sufyan Ullah Khan, Liuyang Yao, Arif Ullah, Tao Xu. Spatial heterogeneity of preferences for improvements in river basin ecosystem ser-vices and its validity for benefit transfer[J]. Ecological Indicators, 2018, 93:627-637.

[7].Zahra Masood Bhutta, Khadim Hussain, Zhao Minjuan*. Job crafting practices and work satisfaction: Evidence from higher education sector in Shaanxi, China[J]. The New Educational Review,2018,52(2):66-75

[8].Liu Wenxin, Zhao Minjuan*, Xu Tao. Water poverty in rural communities of arid areas in China[J]. Water, 2018, 10(4):505.

[9].Wang Yanan, Zhao Minjuan, Chen Wei. Spatial effect

2018(07):93-101.

[18]. , *, . —— [J]. ( ), 2018,18(4):127-136+160.

[19]. , , *. —— Triple-Hurdle [J]. , 2018(03):35-50.

[20]. , *, , , . [J]. ( ), 2018,4(7):109-118.

[21]. , *, . [J]. ,2018,37(10):1352-1361.

[22]. , *, , . - [J]. ,2018,27(10):2316-2327.

[23]. , *. [J]. , 2018 (04):35-50.

[24].Aregay Fanus A., Zhao Minjuan*, Xu Tao. Knowledge, attitude and behavior of farmers in farmland conservation in China: An application of the structural equation model[J]. Journal of Environmental Planning and Management, 2017(5):1-23.

[25].Chen Haibin, Shao Liqun, Zhao Minjuan, Zhang Xing, Zhang Daojun, Grassland con-servation programs, vegetation rehabilitation and spatial dependency in Inner Mongo-lia, China[J]. Land Use Policy, 2017,64:429-439.

[26]. , *, . [J]. , 2017(02):32-40.

[27]. , , *. PPP [J]. ,2017(04):61-66.

[28]. , , *. PPP [J]. ,2017,39(03):102-107+127-128.

[29]. , , , *. —— [J]. ,2017(02):68-80.

[30]. , *, , . [J]. ( ) ,2017,17(05):90-97.

[31]. . [J]. ( ),2017,16(04):87-98.

[32]. , , , , , , , , . [J]. ,2017,32(01):11-19.

[33]. , , , , *. —— [J]. ,2017(5):60-66.

[34]. , , *. —— [J]. ,2017,37(01):31-36+102.

[35]. , , , . —— [J]. ,2017,31(02):20-24.

[36].Aregay, Fanus A., Zhao Minjuan*, Li Xiaoping, Xia Xianli, Chen Haibin. The Local Residents' Concerns About Environmental Issues in Northwest China[J]. Sustainability,2016,8(3):226-237..

[37].Shi Hengtong, Zhao Minjuan*, Aregay Fanus A., Zhao Kai, Jiang Zhide. Residential environment induced preference heterogeneity for river ecosystem service improve-ments: A comparison between urban and rural households in the Wei River basin, China[J]. Discrete Dynamics in Nature and Society, 2016,6:1-9.

[38].Aregay, Fanus A., Zhao Minjuan*, Yao Liuyang. Spatial preference heterogeneity for integrated river basin management: The case of the Shiyang River basin, China[J]. Sustainability, 2016,8:97,.

[39].Chen Haibin, Li He, Tang Haiping, Zhao Minjuan*, Shao Liqun. A two-step strategy for developing cultivated pastures in China that offer the advantages of ecosystem services[J]. Sustainability, 2016,8(4):392.

[40]. , *. —— [J]. , 2016(08):36-40..

[41]. , *, . [J]. ( ), 2016(03):111-117

[42]. , *. [J]. ( ) , 2016(03):64-71.

[43]. , *, , . : ——[J]. , 2016(02):23-31.

[44]. , *, . —[J]. , 2016,30(10): 65-70.

[45]. , , *.

[J]. , 2016,32(11):146-151.

[46]. , *, .

[J]. ( ), 2016,16(05):86-95,.

[47]. , , , , , *.

— [J]. ,2016,38(10): 1925-1934.

[48]. , , , .

: [J]. , 2016(09):41-44.

[49]. , , .

—— 544 [J]. ( ), 2016,17(04):15-21.

[50].Zhao Minjuan*, Xu Tao, Shi Hengtong, Yao Liuyang, Liu Bingyang, Lu Qian. Eco-system service valuation of watershed restoration in the shiyang river basin under het-erogeneous preferences[J]. Journal of Resources and Ecology, 2015,6(6), 405-411.

[51].Zhao Minjuan*,Yin Runsheng, Yao Liuyang, Xu Tao, Assessing the impact of Chi-na ’ s sloping land conversion program on household production efficiency under spa-tial heterogeneity and output diversification[J]. China Agricultural Economic Review, 2015,7(2):221 – 239.

[52].Shi Hengtong, Zhao Minjuan*. Willingness to pay differences across ecosystem ser-vices and total economic valuation based on choice experiments approach[J]. Re-sources Science, 2015,37(2):0351-0359.

[53].Rahman M W, Luo J, Zhao Minjuan*. Welfare impacts of microcredit programmes: An empirical investigation in

the state-designated poor counties of Shaanxi, China[J]. Journal of International Development, 2015,27(7):1012-1026.

[54]. *, , , , .
[J]. , 2015(05):26-32.

[55]. , *.
[J]. , 2015,37(2):0351-0359.

[56]. , *.
—— [J]. , 2015,29(6):115-120.

[57]. , *, .
——
[J]. , 2015(05): 61-71.

[58]. , *.
—— [J]. , 2015,22(1): 274-279.

[59].Yin Runsheng, Zhao, Minjuan*, Yao Shunbo, Designing and implementing payments for ecosystem services programs: What lessons can be learned from China’s experi-ence of restoring degraded cropland?[J]. Environmental Science and Technology, 2014,48(1):19-20.

[60].Yin Runsheng, Liu Can, Zhao Minjuan ,Yao Shunbo, Liu Hao. The implementation and impacts of China's largest payment for ecosystem services program as revealed by longitudinal household data[J]. Land Use Policy, 2014,40:45-55.

[61]. , *. SFA
[J]. , 2014(01):189-192.

[62]. , *. [J].

, 2014, 60(1):106-108.

[63].Zhao Minjuan*, Johnston, Robert. What to value and how? Ecological indicator choices in stated preference valuation[J]. Environmental and Resource Economics, 2013,56(1):3-25.

[64].Aregay Fanus A., Zhao Minjuan*, Zahra Masood Bhutta, Irrigation water pricing pol-icy for water demand and environmental management: A case study in the Weihe River basin[J]. Water Policy, 2013,15(5):816–829.

[65].Yin Runsheng, Liu Tianjun, Zhao Minjuan, Designing and implementing payments for ecosystem services programs: Lessons learned from China's cropland restoration experience[J]. Forest Policy and Economics, 2013,35:66–72.

[66].Yin Runsheng, Zhao Minjuan*, Yao Sunbo. Designing and implementing payments for ecosystem services programs: What lessons can be learned from China’s experi-ence of restoring degraded cropland?[J]. Environmental Science and Technology, 2013,35(1):19-20.

[67]. , *. [J]. , 2013,35(7):1347-1354.

[68]. , *. —— [J]. , 2013(15):42-49.

[69]. , *. : [J]. , 2013,41(4):181-184.

[70]. , , *, . —— [J].

		( ), 2013, 13(5):22-28.											
3-2													
			10	27	19		46	10	0		53	56	43
			18%	48%	34%		82%	18%	0		95%		
							/			/			
1		48											
2		41											
3		46											
4		52											
5		37											
6		34											
7		52											
8		45											
9		55											
10		45											
11		56											
12		59											
13		42											
14		57											

15		54				
16		38				
17		33				
18		37				
19		51				
20		50				
21		47				
22		41				
23		60				
24		40				
25		38				
26		45				
27		36				
28		43				
29		38				
30		35				
31		39				
32		34				
33		34				
34		38				
35		55				
36		48				
37		50				

38		44				
39		55				
40		33				
41		39				
42		33				
43		33				
44		34				
45		35				
46		39				
47		38				
48		45				
49		39				
50		38				
51		30				
52		38				
53		39				
54		44				
55		46				
56		46				

3-3	11 1 1 4 32 22 17 11 10 20 12 5 7

	10. 11. 12. 13. 14. 15. 16. —— 17. 18. MOOC 19. 20. — 21. 22. 23.

	—— 24. 3S 25. 26. 27. 28. 29. 30. 2014 31. 32. 1. 2015 2. 2018 3. 2018 4. 2018 5.

	2019 6. 2014 7. 2014 8. 2015 9. 2017 10. 2018 11. 2014 12. 2014 13. 2015 14. 2015 15. 2016 16. 2017 17. 2017 18. 2018 19. 2015 20. 2015 21. 2017 22. 2018 23. 2013 24. 2013 25. 2014 26. 2015 27. 2015 28. 2015 29. 2016 30. 2016 31. 2018 32. 2018

	1. 2018.12 180 2. 2018.12 230 3. 2018.12 240 4. 2018.12 200 5. ArcGIS10 2018.12 340 6. 2014.03 148 7. 2015.03 450 8. 2015.06 430 9. 2015.08 398 10. 2016.01 435 11. 2017.01 300 12. 2018.05 493 1. , , . [J]. ,2018(04):45-51+94. 2. , , . [J]. ,2018(14):8-11. 3. . [J]. ,2017(09):37-39.

	4. , , . : [J]. ,2017(16):41-43+46. 5. . [J]. ( ),2016(12):111-112. 6. , . [J]. ,2016,19(04):226-228. 7. . SWOT [J]. ,2016,5(2):286-293. 8. . [J]. ,2016(27):56-57. 9. . [J]. ,2015(47):60-61. 10. , , .ERP —— [J]. ,2015(06):80-81. 11. , , . —— [J]. ,2015(05):76-78. 12. . [J]. ,2015(03):50-53. 13. , , . —— [J]. ,2015,33(01):18-22.
3-4 (15)	233 3462.2 33 67 274 SSCI SCI EI 68 14 2 5 1 1 2 18 1. Wei Chen, Yue Shen, Yanan Wang*. Evaluation of economic transformation and upgrading of resource-based cities in

shaanxi province based on an improved topsis method[J]. Sustainable Cities and Society, 2018, 37:232-240. (SSCI)

2. Daojun Zhang, Qiqi Jia, Shunbo Yao*, et al. Contribution of ecological policies to vegetation restoration: a case study from wuqi county in shaanxi province, China[J]. Land Use Policy, 2018, 73:400-411. (SSCI)
3. Hao Ji, Hao Wang, Brunero Liseo. Portfolio diversification strategy via tail-dependence clustering and arma-garch vine copula approach [J]. Australian Economic Papers, 2018, 57(3):265-283. (SSCI)
4. Jianfeng Song, Yanan Guo, Pute Wu*, et al. The Agricultural Water Rebound Effect in China[J]. Ecological Economics, 2018, 146:497-506. (SSCI)
5. Yongqiang Wang, YanWang, Yuchun Zhu. What could encourage farmers to choose non-chemical pest management? evidence from apple growers on the loess plateau of China[J]. Crop Protection, 2018, 114:53-59. (SCI)
6. Hongyu Ma, Federico Topolansky Barbe, Yongmei Carol Zhang. Can social capital and psychological capital improve the entrepreneurial performance of the new generation of migrant workers in China? [J]. Sustainability, 2018, 10(11): 3964. (SSCI)
7. . [J]. ,2014,20(07):1643-1653 (EI)
8. . —— 169 [J]. ,2014(06):74-82 (A)
9.

	2017.11 140 11. -- 2018.01 215 12. 2018.11 220 13. , 2017 14. — Poisson Hurdle 2017 15. 2018

3-5

1.

2005 179

2010 361

2.

4-2

100% 99.8%.

519 343.11 35

432.43 4-1 4-2.

4-1

1		3620 XCTO BASE	77	0.897	69.069	2016
2		THINK M8600t-D138	154	0.365	56.21	2016
3		HP3380	83	0.394	32.702	2013
4		HPDX7518	40	0.47	18.8	2010
5		NF5280M4	4	4.36	17.44	2016
6		GPT-3102N	3	4.9345	14.8035	2011
7		NF5280M5	3	4.25	12.75	2018
8	GPS	G970	1	10.78	10.78	2017
9		PNS-DS-7500	3	3.15	9.45	2016
10		S7808C	2	7.5434	7.5434	2016
11		KFR-120LW/E(12568L)A1-N1	7	1.0504	7.3528	2016
12		GTS332	1	6.5	6.5	2002
13		KFR-120TW(1251S)Ba-2	6	1.0675	6.405	2015
14		HCP-842X	8	0.7878	6.3024	2016
15		HCP-839X	8	0.6448	5.1584	2016

16		DL388P G8 32GB	1	4.8	4.8	2013
17		HP500	1	4.6	4.6	2002
18		RG-S2952G-E	7	0.626	4.382	2017
19		KFR-72TW/(7251)Ba-2	5	0.8724	4.362	2015
20		HP1300PS	1	4.225	4.225	2016
21		DL388P G8 16GB	1	3.46	3.46	2013
22		C765	11	0.298	3.278	2005
23		RG-S2928G-E	7	0.375	2.625	2016
24		Dell-R710	1	2.213	2.213	2012
25		ML150	1	2	2	2010
26		HP350	1	1.93	1.93	2008
27		KFR-72LW/(72569)Bb-2	3	0.5744	1.7232	2016
28	UPS	C10K	1	1.534	1.534	2016
29		7D	1	1.48	1.48	2010
30		X230-B81	2	0.7265	1.453	2013
31		CT10000+	1	1.265	1.265	2003
32		22U	8	0.15	1.2	2016
33		7100MT	3	0.397	1.191	2011
34		5D	1	1.11	1.11	2010
35		GSON MCS-3200	7	0.156	1.092	2016
36		KP-90N	2	0.46	0.92	2002
37		BARIG044	4	0.23	0.92	2005
38		42U	1	0.91	0.91	2012
39		VPL-EX130	1	0.91	0.91	2009
40		HCP-839X	7	0.1274	0.8918	2016

41		D-LINK	8	0.105	0.84	2010
42		SONS DSR-F717	1	0.788	0.788	2002
43	GPS	SP24	2	0.3168	0.6336	2002
44	KVM	16	1	0.6	0.6	2013
45	GPS	500E	2	0.298	0.596	2011
46		TDJ6E	1	0.57	0.57	2002
47		42U	2	0.28	0.56	2016
48		7020	9	0.058	0.522	1994
49		HPDX6080	1	0.395	0.395	2012
50		KP-90N	1	0.285	0.285	1991
51		HP4500	1	0.23	0.23	2002
52		JG6-X3	1			

26		*	1	5.7	5.7	2008
27		*	1	5.05	5.05	2005
28		70	1	5	5	2009
29		v5.0 B/S	1	4	4	2013
30		v5.0 B/S C/S	1	4	4	2013
31		*	1	3.25	3.25	2005
32		*	1	3	3	2005
33		*	1	2.6	2.6	2005
34		60	1	2.1	2.1	2010
35		ZK-55	1	1.8	1.8	2017
			35		**432.43**	

4-3

1224

1

2005 270

2006 303

100%.

2.

1

99.8%

2

3.

5.

5-1			GB	
	54	9	45	7

				/
1				90
2				90

3				90
4				90
5				60
6				60
7				60
8				60
9	—			149
10	——			149
11				60
12	Stata			60
13				35
14				35
15				180
16				180
17				60
18				60
19				60
20				60
21				60
22				60
23	Changes of agricultural floods and droughts in China: 1949-2018(:1949-2018)		Finance( )	93

24	Calculation of wholesale and even premiums of life insurance( )		Finance( )	93
25				60
26				60
27				60
28				60
29				120
30				120
31				630
32				630
33				120
34				120
35				60
36				60
37				250
38				250
39				630
40				630
41				60
42				60
43				50
44				50

45				60
46				60
47	DEAP2.1			65
48	Frontier4.1			65
49				60
50				60
51				60
52				60
53	1			60
54	2			60

5-2

1.

2.

https://cem.nwafu.edu.cn/syjxzx/

3.

5-3

1.

281 77 12 24

35

2.

6.

6-1

1.

6-2

( )

1

2 40

2015

90 40 150

2

,

3.

2018

4.

5 2

4 20

5 10 36

5.

20

5 233

20

7.