



Graduate School of Chinese Academy of Agricultural Sciences

二〇一三年八月

30

"

"

"

"

2013

"

"

"

"

230

53

65

071003	.....	1
	.....	1
071005	.....	5
	.....	5
071010	.....	9
B	B	9
071011	.....	14
B	.....	14
0710 1	.....	18
B	.....	18
0713 1	.....	22
A	.....	22
0713 2	.....	27
A	E E	27
0713 3	.....	32
A	C C	32
0713 4	.....	37
A	D	37
082802	.....	41
A	- E	41
090101	.....	46
C C	F	46
090102	.....	51
C G	B	51
0901 1	.....	56
C G	.....	56
0901 2	.....	61
A -	F 56	

090301	.....	101		
	.....	101		
090302	.....	106		
	.....	106		
0903 1	.....	111		
A	E	111			
0903 2	.....	116		
A	.....	116		
0903 3	.....	121		
A	E	121			
090401	.....	126		
	.....	126		
090402	.....	131		
A	E	C	131		
090403	.....	136		
	.....	136		
0904 1	.....	141		
	.....	141		
0904 2	.....	145		
B	.....	145		
0904 3	.....	149		
G	.....	149		
0904 4	.....	154		
B	C	154		
090501	.....	158		
A	G	, B	158	
090502	.....	163		
A	F	163		
090504	.....	168		
A	, H	,	168
0905 1	.....	173		
E	& E	173		
090601	.....	177		
B	.....	177		
090602	.....	182		
	.....	182		
090603	.....	187		
C	.....	187		
090620	.....	192		
C	.....	192		
090621	.....	197		
	.....	197		
0909 1	.....	202		
C	G	202		

0909 2		.....	207
F G	, B	.....	207
0909 3		.....	212
F		.....	212
120301		.....	217
A	E &	.....	217
1203 1		.....	222
A	E E	.....	222
1203 2		.....	227
	A	.....	227
1203 3		.....	232
A -	E	.....	232
1203 4		.....	237
A		.....	237
1203 5		.....	242
	E	.....	242
1203 6		.....	247
A	A	.....	247
99 1		.....	252
	D A	.....	252

071003

Physiology

()

" "

physiology

Animal nutritional physiology and growth

physiology

Animal propagation physiology and milking

3

1-2

5

6

3-5

1.

2

3

4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

1

1

"

2

2

"

20

"

"

2

3

2

7

3

071005

Microbiology

" "

utilization Agricultural microbial resources and

Environmental microbiology

Agricultural microbial engineering

engineering

3
1-2
6 5

3-5
1.
3 2 4

1

"

"

2

13

60

2

3

1

Seminar 3.0
2.0
2.0
1.0
2.0
2.0
1.0
" " " " 1

2

60

3

60

" "

" "

1

1

6

15

1

10 " 2 15 " 15
" 2 2 " 20 1 1
" "

2

2

3

3

7

071010

Biochemistry and Molecular Biology

" "

Genomics and proteomics

DNA

Plant molecular biology and genetic

engineering

Animal molecular biology and gene

engineering

Microbial molecular biology and

gene engineering

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13	60						
	2						
3							
1							
						3.0	
						2.0	
						2.0	
						1.0	
						2.0	
	Seminar					2.0	
						1.0	
			"	"	"	"	1
						60	
2							
3							
			"	"			60

2

3

7

3

071011

Biophysics

“ ”

Radiation Biophysics

1.

2

3

Environmental biophysics

Nanobiology

1.

2

3

4

5

3

1-2

5

6

3-5

1.

2

3

4.

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

Seminar

1.0
2.0
2.0
1.0

" " " "

60

2

3

60

" "

" "

1

1

6

15

1

10

2

15

15

0710Z1

Bioinformatics

(Bi o i n f o r m a t i c s)

DNA

DNA

" "

Bioinformation integration and modeling

Biomolecule interaction and regulatory

network

3

1-2

5

6

3-5

1.

2

3

4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

1

1

"

2

2

"

20

"

"

2

3

2

7

3

0713Z1

Agroecology

20

" "

Crop ecology

Agricultural environmental ecology

Management of agroecosystem

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

LED

VEB

Ecological engineering for pollution control

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

0713Z3

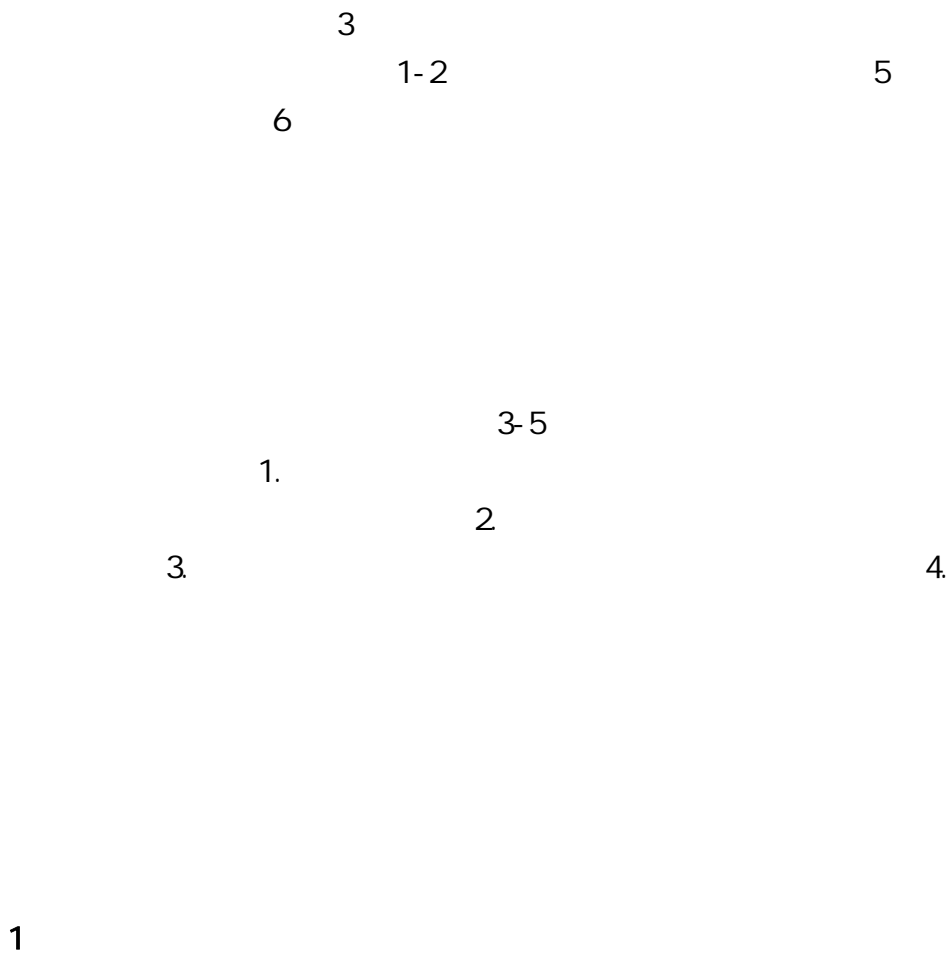
Agricultural Meteorology and Climate Change

“ ”

...

in agricultural sector

Greenhouse gas emissions and mitigation



15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

0713Z4

Agro-regional Development and Planning

21

" "

Agro-resources management

Agro-regional development

Agro-regional planning

3
1-2
6 5

3-5
1.
3 2 4

1

"

"

2

13

60
2

3

1

				3.0	
				2.0	
				2.0	
				1.0	
				2.0	
	Seminar			2.0	
				1.0	
		"	"	"	1

60

2

3

60

" "

" "

1

1

6

15

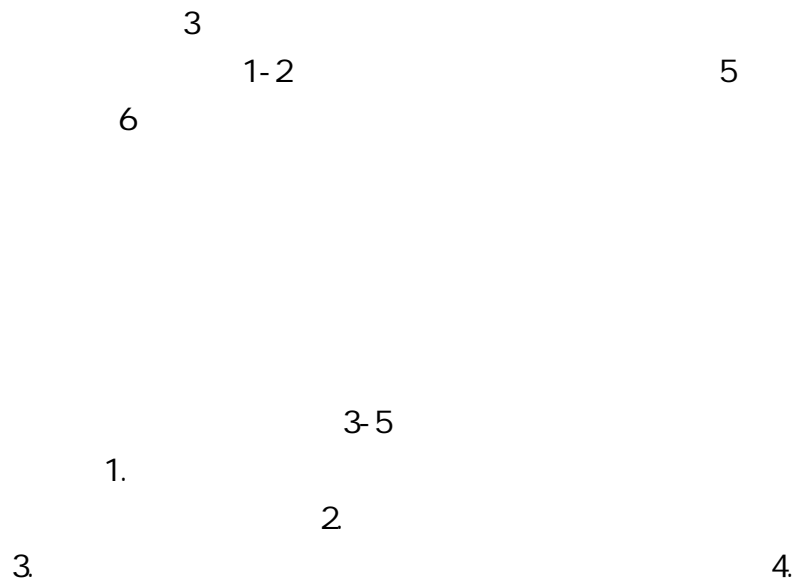
1

Water-saving irrigation

agriculture

Water resource and environment for

Drainage theory and new technology



1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

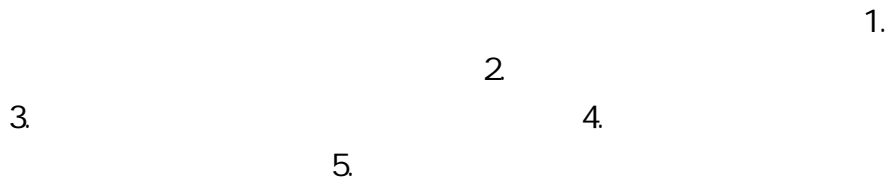
090101

Crop Cultivation and Farming System

60

“ ”

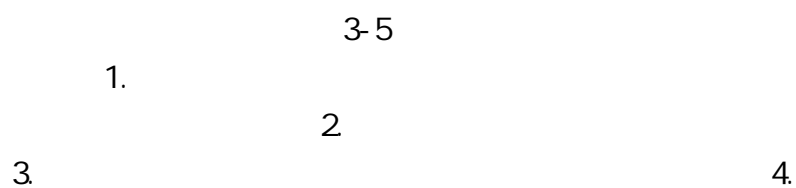
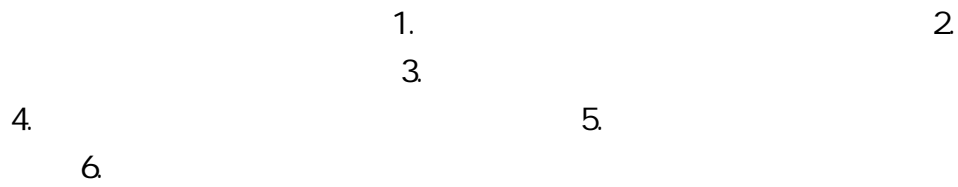
Crop cultivation



Crop physiology and ecology



Farming system and agroecology



1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

" "

1 1

15 1 6

10 2 15 15

" "

2 2 20 1 1

" "

090102
Crop Genetics and Breeding

18 19
20 19
 20

" "

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1
15 1 1
6
10 " 2 15 15
" " 2
" 2 2 " 1 1
2 2 2 0 1 1
" "

2

2

3

7

3

0901Z1
Crop Germplasm Resources

20 50 20 30

21

" "

Genetic diversity, origin and evolution of

cultivated crops

resources

Conservation biology of crop germplasm

Germplasm evaluation and enhancement

Gene discovery and functional validation

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1"

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

0901Z2

Agro-product Quality and Food Safety

“ ”

Agro-product quality and safety control

agro-product processing and storage

Quality and safety control during

Standard and testing technology

Traceability

Risk assessment and management

3
1-2
6 5

1. 3-5
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

2

20

" "

2

3

2

7

3

0901Z3

Medicinal

Medicinal plant cultivation

Evaluation and Utilization of Chinese

Medicinal Materials



15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

0901Z4

Agro-products Processing and Utilization

“ ”

Cereal and oil processing

				1		
	1					
						6
15	1					
		10	2	15	15	
		"		"		2
"			"		1	1
2	2			20		
		"	"			

0901Z5

Agricultural Mechanical Engineering

“ ”

and machinery

Interactive mechanism among crop, soil

Information
acquisition of crop growth environment and engineering technology of disease,
pest and weed control

Crop field operation
machinery and conservation tillage technology

Agricultural equipment digital
design and intelligent control technology

3
1-2
6 5

3-5
1.
2
3 4

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

				1		
	1					
						6
15						
	1					
		10		2	15	15
		"			"	
						2
"					1	1
	2			"		
		2			20	
		"	"			

2

2

3

7

3

090201

Pomology

1908

50

1921

"

"

Fruit tree germplasm resources

Fruit tree genetics and breeding

fruit trees

Physiology and management technology of

Storage and quality control of fruits

3

1-2

5

6

3-5

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

sq

1

1

2

2

20

2

3

2

7

3

090202

Vegetable Science

20

30

1937

1930 "

1936

12

"

20

70

20

90

"

"

Vegetable germplasm resources

Vegetable genetics and breeding

vegetable cultivation

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

2.0

2.0

2.0

1.0

Seminar

"

"

"

"

1

60

2

3

60

"

"

"

"

2

2

3

7

3

090203

Tea Science

1930
50

1940
60

30-40

1956
1957

" "

Tea germplasm and breeding

Tea cultivation physiology and ecology

Tea processing and quality control

Integrated management of tea pest

3
1-2 5
6

3 5

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

1

1

sci

"

"

2

2

20

"

"

2

3

2

7

3

0902Z1

Ornamental Horticulture

“ ”

breeding of ornamental plant

Germplasm resources, genetics and

plant

Cultivation and physiology of ornamental

ornamental plant

Postharvest physiology and technique of

3
1-2 5
6

3-5
1. 2 4
3

1

"

"

2

15

1

6

10

"

2

"

15

15

2

sq

"

2

2

"

1

1

20

"

"

2

2

3

7

3

Soil resource and management

Soil ecology and remediation

3
1-2
5
6

3-5
1.
2
3 4

1

"

"

2

2

3

7

3

090302

Plant Nutrition

FAO

40%

19

" "

Plant nutrient biology

-
Nutrient cycling

- Nutrient management -

Fertilizer technology

n

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1 1
15 1 6
10 2 15 15
" " 2
" " 1 1

2

3

7

3

Soil water and nutrient management

Dry-land farming

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

2

3

7

3

0903Z2
Agricultural Remote Sensing

20 60

" "

Quantitative remote sensing for agriculture

-

Remote sensing for agriculture condition

Remote sensing for agricultural resources

Remote sensing for agricultural disaster

Spatial information for agriculture

3
1-2
6
5

3-5
1.
2
3
4

1

"

"

2

13

60

1e

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

0903Z3

Agricultural Environmental Science

“ ”

environment

Monitoring and evaluation on agricultural

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

1

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

3

2

7

090401

Plant Pathology

“ ”

Molecular plant pathology

Biology of plant pathogens

Epidemiology of plant diseases

Genetics of plant disease resistance

Quarantine and control of plant diseases

3
1-2
6
5

3-5
1.
2
3
4

1

"

"

2

15

1

6

10

"

2

"

15

15

2

3

7

3

090402

Agricultural Entomology and Pest Control

“ ”

Insect ecology

Insect physiology and biochemistry

Insect toxicology

Insect behavioral biology

Pest control

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

090403

Pesticide Science

“ ”

Pesticide chemistry and natural substances

Pesticide toxicology

Pesticide application

Pesticide residue and environment

toxicology

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0
2.0
2.0
1.0
2.0
2.0
1.0

Seminar

" " " " 1

60

2

3

60

" "

" "

1

1

6

15

1

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

3

2

7

0904Z1

Weed Science

“ ”

Weed biology and ecology

Mechanisms of weed infestation

Weed management

3
1-2
6 5

1. 3-5
2
3 4

1

" "

2

13 60
2

3

1

3.0
2.0

				2.0	
				1.0	
				2.0	
	Seminar			2.0	
				1.0	
		"	"	"	1
				60	
2					
3					
					60
	"	"			
			"	"	
					1
1					

0904Z2

Invasion Biology

3S GIS GPS RS

" "

Invasive mechanism of exotic species

Prevention and management of invasive

species

				3.0	
				2.0	
				2.0	
				1.0	
				2.0	
	Seminar			2.0	
				1.0	
		"	"	"	1

60

2

3

60

" "

" "

1

1

6

15

1

0904Z3

GMO Safety

GMO Safety

20

" "

Detection and traceability of GMO

Risk assessment and monitoring of

GMO

1

3.0
2.0
2.0
1.0
2.0
2.0
1.0

Seminar

" " " " 1

60

2

3

60

" "

" "

1

1

6

15

1

10

"

2

"

15

15

2

"

2

2

"

"

"

20

1

1

2

3

2

7

0904Z4

Biological Control

“ ”

Biological control of insect pests

Biological control of plant diseases

3

1-2

5

6

3-5

1.

2

3

4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

3.0

2.0

2.0

1.0

Seminar

sq

2

2

1

1

2 0

" "

2

3

2

7

3

090501

Animal Genetics, Breeding and Reproduction

1750
9000
20 30
50
20 70
40%

" "

Animal germplasm resources

D A

Animal genetics and breeding

D A A

Animal reproduction

Animal gene and cell engineering

D A

3

1-2

5

6

3-5

1.

2

3

4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

sq

1

1

"

"

2

2

3

7

3

090502

Animal NR mal

Mono-gastric nutrition and feed science

Ruminant nutrition and feed science

Aquaculture nutrition and feed science

Feed resource

Feed safety

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

2.0

1.0

Seminar

"

"

3

60

" "

" "

1

1

6

15

1

15

15

10

2

"

"

2

sq

1

1

" "

2

3

2

7

3

090504

Special Animals Rearing including Silkworms, Honeybees, etc.

" "

genetics and breeding of special animals

Germplasm resources,

Bioengineering of special animals

Rearing of special animals

animals

Disease and pest control of special

utilization, safety evaluation of special animals

Products processing and

3
1-2
6
5

3-5
1.
2
3
4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1 1
15 1 6
10 2 15 15
" " " 2
SD 1 1
" "

2

2

3

3

7

3
1-2 5
6

3-5
1. 2 4
3

1

"

"

2

13

60

2

3

1

				3.0	
				2.0	
				2.0	
				1.0	
				2.0	
	Seminar			2.0	
				1.0	
		"	"	"	1

2

60

3

" "

60

" "

1

1

15

1

6

090601

Basic Veterinary Science

“ ”

3.0
2.0
2.0
1.0
2.0
2.0
1.0

" " " "

1

60

2

3

60

" "

" "

1

1

10 " 2 15 " 15 2

2 2 2.0 1 1

2

2 3

2 3 7

090602

Preventive Veterinary Science

“ ”

infectious diseases

Etiology and epidemiology for Animal

biology

Veterinary microbiology and molecular

biology

Veterinary parasitology and molecular

Animal vaccinology and molecular

immunology

Zoonosis and veterinary public

health

3

1-2

5

6

3-5

1.

2.

3.

4.

1

"

"

2.

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

15

1

6

10

2

15

15

"

"

2

1

1

2

2

2.0

2

2

3

7

3

090603

Clinical Veterinary Science

“ ”

Veterinary medicine

Veterinary clinical diagnostics

Veterinary surgery

Veterinary obstetrics

3
1-2
5
6

1.
3-5
2.
3. 4.

1

" "

2.

13 60
2

3

1

3.0

2.0
2.0
1.0
2.0
2.0
1.0

" " " "

1

60

2

3

60

" "

" "

1

1

6

15

1

10 " 2 15 " 15 2
2 2 2.0 1 1

Traditional Chinese veterinary materia medica

3
1-2
6 5

1. 3-5
2.
3. 4.

1

“ ”

2.

13

60

2

3

1

3.0
2.0
2.0
1.0
2.0
2.0
1.0

" " " "

1

60

2

3

60

" "

" "

1

1

6

15

1

10 " 2 15 " 15 2
2 2 2.0 1 1

2

2

3

3

7

-

Natural medicinal chemistry

3

1-2

5

6

3-5

1.

2.

3.

4.

1

"

"

2.

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

2.0

1.0

" " " "

1

60

2

3

60

" "

" "

1

1

1

10

"

2

15

"

15

2

1

1

2

2

2.0

2

3

2

7

0909Z1

Utilization and Conservation of Grassland Resources

“ ”

Grassland resources

“ ”

Grassland ecology

Grassland disaster

Utilization and conservation of grassland

3
1-2
6 5

1. 3-5
2
3 4

1

" "

2

13 60
 2

3

1

3.0
2.0
2.0
1.0
2.0
2.0
1.0

Seminar

" " " " 1

60

2

3

60

" "

" "

				1		
	1					
						6
15	1					
				15	15	
		10	2	"	"	
						2
"					1	1
2	2		"	20		
	"	"				

2

2

3

7

3

Forage germplasm resources

Forage genetics and breeding

Forage seed science

3
1-2
6 5

3-5
1.
3 2 4

1

"

"

2

15

1

6

10

"

2

"

15

15

2

3

7

3

0909Z3

Forage Production and Utilization

126

Forage cultivation and management

—

Forage processing and storage

Forage ecology and physiology

Forage utilization and conversion

3
1-2
6 5

3-5
1.
3 2 4

1

1 1
15 1 6
10 2 15 15
" " " 2
" 2 2 " 1 1
" " 20

2

2

3

7

3

120301

Agricultural Economics & Management

“ ”

Agricultural economic theory and policy

Food safety and development

Rural finance and insurance

Regional development and poverty alleviation

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

3

3

7

1203Z1

Agricultural Resources and Environmental Economics

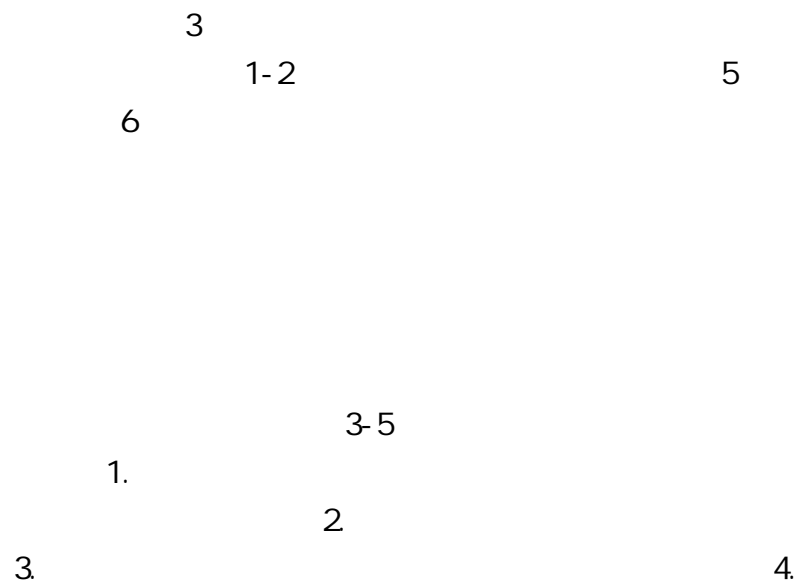
“ ”

Agricultural environmental economics

Agricultural resources management

Rural energy economics

Climate change and low-carbon agriculture



"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

15 1 1 1
 10 " 2 15 15 6
 " 2 2 " 20 1 1 2

2

2

3

7

3

1203Z2

International Agricultural Trade

“ ”

International trade theory and policy

Agricultural market and circulation

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

1203Z3

Agricultural science and technology policy

Technical innovation and management

Evaluation on the development of modern

agriculture

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1
15 1 1
10 " 2 15 15 6
" " " 2
" 2 2 " 1 1
" " 2 0

2

1203Z4

Agricultural Information Management

20 40

" "

Information resources management

Information organization and utilization

Digital library

Agricultural information communication

competitive intelligence Agricultural information analysis and

3
1-2 5
6

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

6

15

1

15

15

10

2

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3

1203Z5

Industrial Economics

“ ”

Crop economy

Animal economy

Industrial organization and supply chain

management

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

2

3

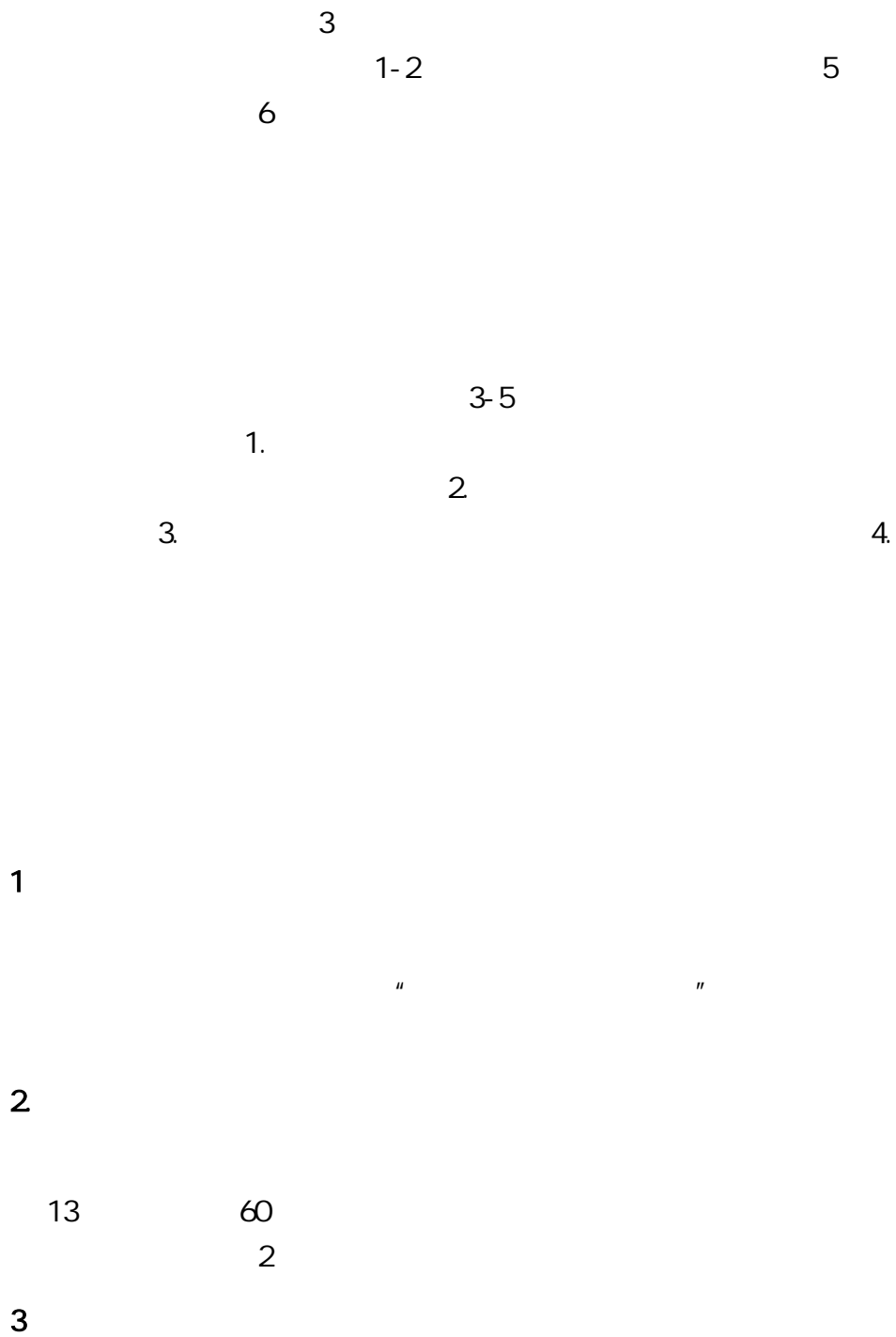
7

3

1203Z6

Agricultural Information Analytics

Agricultural monitoring and early-warning



1

3.0
2.0
2.0
1.0
2.0
2.0
1.0

Seminar

" " " " 1

60

2

3

60

" "

" "

1

1

6

15

1

10

"

2

15

"

15

2

"

2

2

"

"

"

20

1

1

99J1

Information Technology and Digital Agriculture

“ ”

Application of network technology in agriculture

“ ”

Crop informatics

Animal informatics

Digital technology of agricultural

production management

3
1-2
6 5

3-5
1.
2
3 4

1

"

"

2

13

60

2

3

1

3.0

2.0

2.0

1.0

2.0

Seminar

2.0

1.0

"

"

"

"

1

60

2

3

60

"

"

"

"

1

1

15

1

6

10

2

15

15

"

"

2

"

"

1

1

2

2

20

"

"

2

2

3

7

3