



Graduate School of Chinese Academy of Agricultural Sciences

二〇一三年八月

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A	- E	41
090101	46
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090102	51
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Physiology

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physiology

Animal nutritional physiology and growth

physiology

Animal propagation physiology and milking

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Microbiology

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utilization Agricultural microbial resources and

Environmental microbiology

Agricultural microbial engineering

engineering

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Biochemistry and Molecular Biology

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Genomics and proteomics

DNA

Plant molecular biology and genetic

engineering

Animal molecular biology and gene

engineering

Microbial molecular biology and

gene engineering

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Biophysics

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Radiation Biophysics

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Environmental biophysics

Nanobiology

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Bioinformatics

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

DNA

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Bioinformation integration and modeling

Biomolecule interaction and regulatory

network

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Agroecology

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Crop ecology

Agricultural environmental ecology

Management of agroecosystem



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Ecological engineering for pollution control

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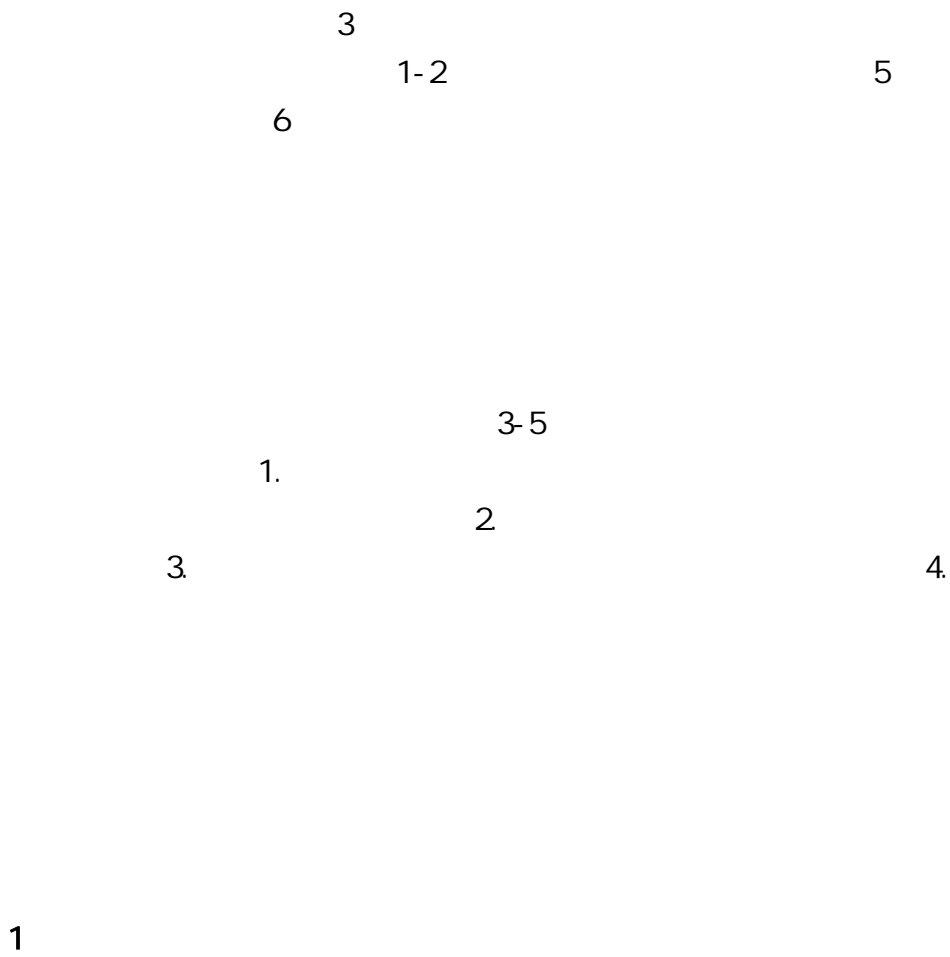
Agricultural Meteorology and Climate Change

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in agricultural sector

Greenhouse gas emissions and mitigation



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Agro-regional Development and Planning

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Agro-resources management

Agro-regional development

Agro-regional planning

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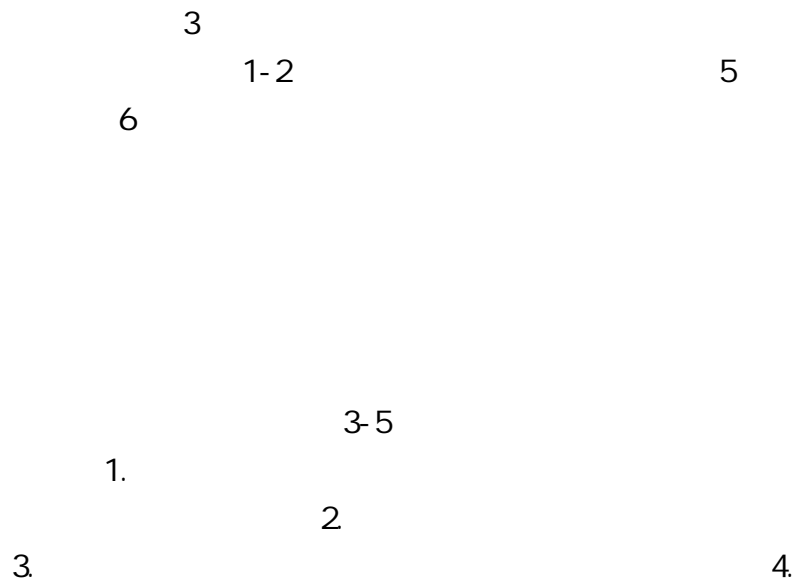
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Water-saving irrigation

agriculture

Water resource and environment for

Drainage theory and new technology



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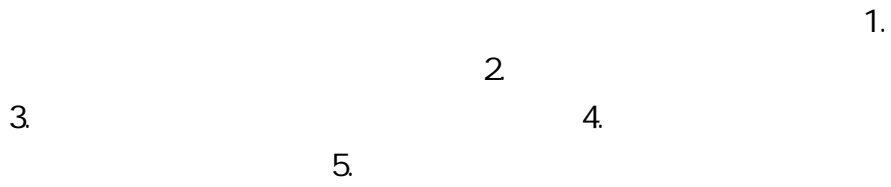
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Crop Cultivation and Farming System

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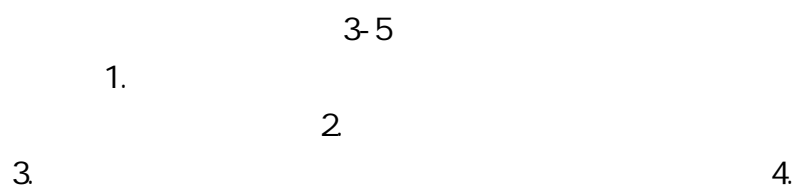
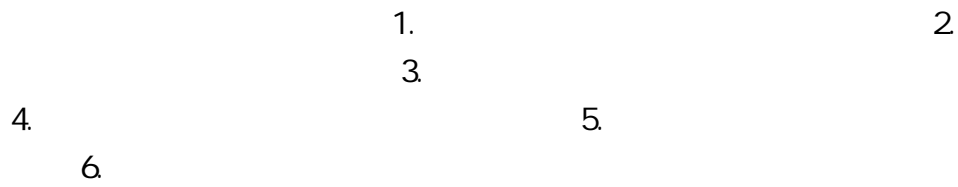
Crop cultivation



Crop physiology and ecology



Farming system and agroecology



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Crop Genetics and Breeding

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Crop Germplasm Resources

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Genetic diversity, origin and evolution of

cultivated crops

resources

Conservation biology of crop germplasm

Germplasm evaluation and enhancement

Gene discovery and functional validation

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Agro-product Quality and Food Safety

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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

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Medicinal

Medicinal plant cultivation

Evaluation and Utilization of Chinese

Medicinal Materials



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Agro-products Processing and Utilization

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Cereal and oil processing

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Agricultural Mechanical Engineering

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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

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Pomology

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Fruit tree germplasm resources

Fruit tree genetics and breeding

fruit trees

Physiology and management technology of

Storage and quality control of fruits

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Vegetable Science

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Vegetable germplasm resources

Vegetable genetics and breeding

vegetable cultivation

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Tea Science

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Tea germplasm and breeding

Tea cultivation physiology and ecology

Tea processing and quality control

Integrated management of tea pest

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Ornamental Horticulture

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breeding of ornamental plant

Germplasm resources, genetics and

plant

Cultivation and physiology of ornamental

ornamental plant

Postharvest physiology and technique of

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Soil resource and management

Soil ecology and remediation

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Plant Nutrition

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Plant nutrient biology

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Nutrient cycling

Nutrient management
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Fertilizer technology

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Agricultural Water Resource and its Environment

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resource and its environment

Management of Agricultural water

Water-saving irrigation

Soil water and nutrient management

Dry-land farming

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Agricultural Remote Sensing

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Quantitative remote sensing for agriculture

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Remote sensing for agriculture condition

Remote sensing for agricultural resources

Remote sensing for agricultural disaster

Spatial information for agriculture

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Agricultural Environmental Science

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environment

Monitoring and evaluation on agricultural

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Plant Pathology

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Molecular plant pathology

Biology of plant pathogens

Epidemiology of plant diseases

Genetics of plant disease resistance

Quarantine and control of plant diseases

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Agricultural Entomology and Pest Control

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Insect ecology

Insect physiology and biochemistry

Insect toxicology

Insect behavioral biology

Pest control

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Pesticide Science

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Pesticide chemistry and natural substances

Pesticide toxicology

Pesticide application

Pesticide residue and environment

toxicology

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Weed Science

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Weed biology and ecology

Mechanisms of weed infestation

Weed management

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Invasion Biology

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Invasive mechanism of exotic species

Prevention and management of invasive

species

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GMO Safety

GMO Safety

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Detection and traceability of GMO

Risk assessment and monitoring of

GMO

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Biological Control

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Biological control of insect pests

Biological control of plant diseases

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Animal Genetics, Breeding and Reproduction

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Animal germplasm resources

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Animal genetics and breeding

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Animal reproduction

Animal gene and cell engineering

D A

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Animal NR mal

Mono-gastric nutrition and feed science

Ruminant nutrition and feed science

Aquaculture nutrition and feed science

Feed resource

Feed safety

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Special Animals Rearing including Silkworms, Honeybees, etc.

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genetics and breeding of special animals

Germplasm resources,

Bioengineering of special animals

Rearing of special animals

animals

Disease and pest control of special

Products processing and
utilization, safety evaluation of special animals

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Basic Veterinary Science

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Preventive Veterinary Science

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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

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Clinical Veterinary Science

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Veterinary medicine

Veterinary clinical diagnostics

Veterinary surgery

Veterinary obstetrics

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Traditional Chinese veterinary materia medica

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Natural medicinal chemistry

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Utilization and Conservation of Grassland Resources

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Grassland resources

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Grassland ecology

Grassland disaster

Utilization and conservation of grassland

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Forage germplasm resources

Forage genetics and breeding

Forage seed science

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Forage Production and Utilization

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Forage cultivation and management

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Forage processing and storage

Forage ecology and physiology

Forage utilization and conversion

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Agricultural Economics & Management

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Agricultural economic theory and policy

Food safety and development

Rural finance and insurance

Regional development and poverty alleviation

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Agricultural Resources and Environmental Economics

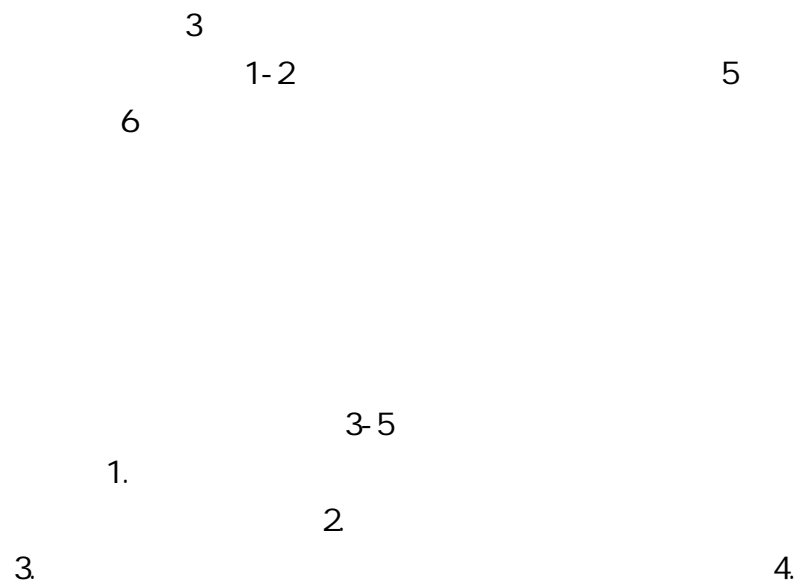
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Agricultural environmental economics

Agricultural resources management

Rural energy economics

Climate change and low-carbon agriculture



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International Agricultural Trade

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International trade theory and policy

Agricultural market and circulation

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Agricultural science and technology policy

Technical innovation and management

Evaluation on the development of modern

agriculture

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Agricultural Information Management

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Information resources management

Information organization and utilization

Digital library

Agricultural information communication

competitive intelligence Agricultural information analysis and

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Industrial Economics

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Crop economy

Animal economy

Industrial organization and supply chain

management

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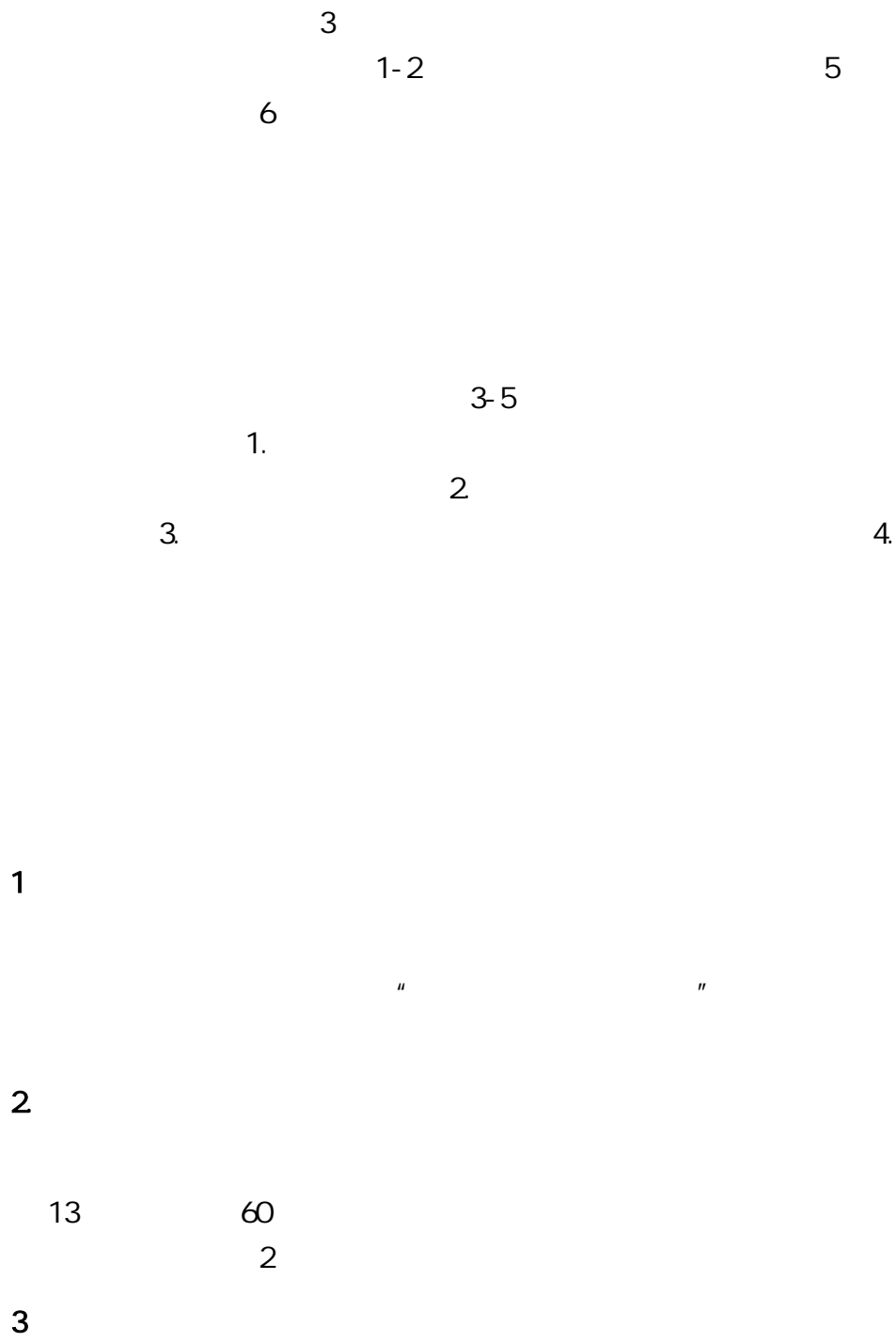
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Agricultural Information Analytics

Agricultural monitoring and early-warning



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Information Technology and Digital Agriculture

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Application of network technology in agriculture

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Crop informatics

Animal informatics

Digital technology of agricultural

production management

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