





第一次全国自然灾害综合风险普查总体情况介绍

General Introduction of The First National Survey on Natural Disaster Risks



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Co-organized by

 WFP Centre of Excellence for Rural Transformation (WFP China COE) National Disaster Reduction Center of China (NDRCC)



Ministry of Agriculture and Rural Affairs of the People's Republic of China Ministry of Emergency Management of the People's Republic of China



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普查背景 Survey Background

2020年5月31日,中国国务院发出《关于 开展第一次全国自然灾害综合风险普查的通 知》,定于2020年至2022年开展第一次全国 自然灾害综合风险普查工作。

On May 31, 2020, the State Council of China issued the notice on carrying out the 1st National Natural Disaster Comprehensive Risk Survey, which is scheduled to be carried out from 2020 to 2022.





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一、风险普查的内容 Contents of Risk Survey



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1.1 普查目标 Survey Objectives

摸清底数Find Out the Bottom Line

全面获取中国主要灾害**致灾信息**,重要**承灾体信息,** 历史灾害信息,掌握各类灾害隐患情况,查明区域抗 灾能力和减灾能力。

We should comprehensively obtain the information on major disasters, important Disaster-bearing objects and historical disasters in China, master the hidden dangers of various disasters, and find out the regional disaster resistance and mitigation capabilities.



掌握规律Master the Rule

科学评估全国及区域<mark>自然灾害综合风险水平</mark>,预判今 后一段时期灾害风险变化趋势和特点,形成全国自然 灾害防治区划和防治建议。 The aim are scientific evaluation on the comprehensive risk level of national and regional natural disasters, prediction on the trend and characteristics of disaster risk in the future, and suggestions on the national natural disaster prevention and control division.

建立自然灾害风险调查与评估的技术方法体系、基础数据库,信息化平台和工作制度,建立风险普查数据常态化更新机制。 Establish the technical method system, basic database, information platform and work system of natural disaster risk investigation and assessment, and establish the normalized update mechanism of risk survey data.

技术体系

Technical System



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1.2 普查查什么

Seminar on Disaster Risk Reduction and Emergency Management



Task 1:

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森林和草原火灾 Forest and grassland fire

滑坡、崩塌、泥石流 Landslide, collapse and debris flow 暴雨、干旱、台风、高温、低温、风雹、雪灾、雷电 Rainstorm, drought, typhoon, high temperature, low temperature, wind and hail, snowstorm and lightning 洪水、干旱

Survey on Natural Disaster Risks-What are the Survey Objects?

Flood and drought

风暴潮、海浪、海啸、海平面上升、海冰 Storm surge, wave, tsunami, sea level rise, sea ice 森林火灾、草原火灾 Forest fire, grassland fire 全面查明各地<mark>6大类、21小类</mark>自然灾 害的致灾危险。

Comprehensively identifying hazard risk of natural disasters in 6 categories and 21 small categories.







任务2:

Task 2:

Seminar on Disaster Risk Reduction and Emergency Management



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人口 population 房屋 housing 基础设施 infrastructure 公共服务设施 Public Service 三次产业 Three industries 资源与环境 Resources&Environment

1.2 普查查什么 Survey on Natural Disaster Risks-What are the Survey Objects?

> 掌握遭受自然灾害威胁的**人口、房屋、基础设施和经** 济产业等承灾体情况。

Mastering the situation of population, housing, infrastructure, economic and other disasterbearing objects threatened by natural disasters.



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1.2 普查查什么 Survey on Natural Disaster Risks-What are the Survey Objects?

						11(方): Iask 5:
	类型Type	灾害种类Types of Disasters	损失Loss	救灾Disaster Mitigation	范围/频次 Range / Frequency	查明1978年以来自然灾害灾情,
	年度自然灾害 (1978-2020) Annual natural disasters (1978-2020)	地震灾害、地质灾 害、气象灾害、水 旱灾害、海洋灾害、	人员受灾、房屋倒损、 农作物受灾、	队伍投入、物资 投入、资金投入、	县级/历年 County/Year	梳理建国以来发生的特别重大自 然灾害案例。
历史 灾害 调查 History Disaster Investigation	重大自然灾害 (1949-2020) Major natural disasters (1949-2020)	森林和草原火灾。 Earthquake disaster, geological disaster, meteorological disaster, flood and drought disaster, marine disaster, forest and grassland fire.	、 农作物受灭. 基础设施损毁、直接 经济损失。 Population affected, houses damage, crops damage, Infrastructure damage and	投入、资金投入、 救灾成效等。 Team investment, material investment, capital investment, disaster mitigation effect, etc.	县级/历次 County/Frequen cy	Find out the natural disaster situation since 1978, and sort out the particularly serious natural disaster cases since the founding of the people's Republic of China.



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1.3 普查评什么:开展单灾种、多灾种综合风险评估与区划 Survey on Natural Disaster Risks-How to Make Assessment?

Carry out Risk Assessment of Single Disaster and Comprehensive Assessment of Multiple Disasters









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1.4 普查如何做

Survey on Natural Disaster Risks-What is the Survey Methodology?

















二、风险普查的特点和成果 Characteristics and Outcomes of Natural Disaster Risks Survey



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2.1 此次普查有4方面特点 4 Characteristics of Natural Disaster Risks Survey

首次实现在统一的技术体系下开展风险评估与区划工作

This's the first time to carry out risk assessment and division under a unified technical system

组织各相关部门采用统一的**灾害风险评估技术框架、风险区划技术框架和综合防治区划技术框架**来完成各单灾种的相关工作,在此基础上形成 多部门协同完成的综合性成果。

Organize relevant departments to use a unified framework (**Risk Assessment, Risk Division and Comprehensive Prevention Division**) to complete the work related to each single disaster, and on this basis, draw a comprehensive conclusion completed by multiple departments.









2.1 此次普查有4方面特点

4 Characteristics of Natural Disaster Risks Survey

首次实现自然灾害风险要素调查、风险评估、风险区划和综合防治区划等全链条式普查 The first time to identify the whole chain of natural disaster risk investigation, assessment, division and comprehensive prevention and control division.









2.1 此次普查有4方面特点

4 Characteristics of Natural Disaster Risks Survey

首次实现致灾数据和承灾体数据有机融合

First time to achieve the combination with disaster causing and disaster-bearing objects









2.1 此次普查有4方面特点 4 Characteristics of Natural Disaster Risks Survey

重点在"综合", 难点也在"综合", 亮点也在综合 Emphasis: Comprehensive, Difficulty: Comprehensive, Eminence: Comprehensive









2.2 普查形成4方面成果: 汇交形成89项普查成果 Outcomes of the survey in 4 directions: A total of 89 survey results

序号	数据 提供 部门	数据成 果项	数据对象名称	时间 范围	空间 范围	空间属性	时间 分辨率	空间 分辨率	属性指标	比例尺	计量单位
1	01 地震	重点聽 患评估/ 行业与 综合风 险评估	地震危险性评价图(区 分是否考虑场地效应,4 种超越概率50年63%、 50年10%、50年2%、 100年1%)(4个等级)	-	全国	栅格/矢 量点/矢 量面	1	全国 1km、徹 250m	8个指标:无场地修正的4个概率峰值 加速度、经过场地修正的4个概率峰值 加速度、划分4个等级	全国1:100 万;分省 1:25万	gal (cm/s ²)
2	01 地震	重点隐 患评估	房屋建筑、市政设施隐 患评估图	2020	全国	矢量	-	单体	房屋及市政设施:对象编号、场址影响 系数、承文体易损性影响系数、承文体 破坏后果影响系数、地震灾害隐患指数	-	_
3	01 地震	行业和 综合区 划	防治区划图(抗震加固 优先级)	_	全国	栅格	-	1km	优先级排序	全国 1: 100万,km 网格; 县 级 1:5万	_
4	01 地震	行业和 综合区 划	防治区划图 (活动层避让图)	Τ	全国	矢量面		县级行政 单元	适用工程类别	1:5万	-
5	01 地震	重点隐 患评估	全国活动断层图	—	全国	矢量	1	-	断层名称、最新活动时代	-	-
6	01 地震	历史灾 害调查	重大灾害事件 (1949-2020年) 一般灾害事件 (1990-2020年) 年度灾害情况 (1993-2020年)	以地震部门 提供为准	全国	 表格/文 本/矢量 (烈度 图) 	年度/次	县级行政 单元	时间、震中、震源深度、震级、受灾人 口、死亡人口、直接经济损失、烈度困	-	T
7	01 地震	行业与 综合风 险评估	不同超越概率地聚作用 下房屋破坏导致直接经 济损失风险评估图及风 险区划图(等级划分,5 级)	1	全国	栅格/矢 量	-	1km	连续风险值、5 级分级结果和风险区划 结果	全国不低 于 1:100 万,省级 不低于 1:25 万	_

形成致灾、承灾、减灾能力等全要素调查数据成果、单灾种和多灾种综合风险评估区划成果,总计汇交89项。

A total of 89 results were obtained from the survey data results of all factors such as disaster-causing, disaster-bearing, and disaster-reduction capabilities, as well as single-hazard and multi-hazard comprehensive risk assessment division results.







2.2 普查形成4方面成果: 建成全国统一的软件平台 Outcomes of the survey in 4 direction: A national unified platform



推动普查软件系统常态化业 务运行,支撑国、省、市、 县四级政府开展普查要素数 据的动态更新。

Promote the normalized business operation of the survey software system, and support the national, provincial, municipal and county governments to carry out updates of survey element data in time.

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2.2 普查形成4方面成果:建成分地区、分类型的自然灾害综合风险数据库

Outcomes of the survey in 4 direction: A comprehensive Risk Database of natural disasters by region and type



推动普查成果在各级政府、 各行业部门落地,支撑自然 灾害应急救援、灾害综合防 治等工作。

Promote the implementation of survey in governments at all levels and various industries, and support natural disaster emergency rescue and comprehensive disaster prevention and control.

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自然资源



2.2 普查形成4方面成果: 形成1套技术标准规范

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Outcomes of the survey in 4 direction: A technical standard specifications

附件			附件	
	第一次全国自然灾害综合风险 调查类技术规范(试点版); (47项, 另发电子版光盘)		មា	第一次全国自然灾害综合风险普 F估与区划类技术规范(试点版) (45 项, 另发电子版光金))
序号	技术规范名称	责任部门	序号	技术规范名称
01	县级 1:50 000 活动断层分布图编制技术规范 (试点版)			地震危险性图编制规范
-02	《1:250 000 池震构造图编制》指南	中国地震局	地震-02	地震灾害风险评估技术及数据规范
-03	全国 1:100 万区城地震构造图编制技术规范		地震-03	建(构)筑物地震灾害隐患等级评定方法
-04	场地地震工程地质条件调查技术规范		资源-01	地质灾害风险调查评价技术要求(1:50000
-01	速质灾害风险调查评价技术要求(1:50 000)	自然资源部		海洋灾害重点隐息调查与评估技术规范 海岸
-01	暴雨灾害调查与风险评估技术规范		资源-02	防护
-02	冰雹灾害调查与风险评估技术规范		资源−03	海洋灾害重点隐患调查与评估技术规范一边
03	大风灾害调查与风险评估技术规范		资源-03	港
-04	低温灾害调查与风险评估技术规范		资源-04	风暴潮灾害风险评估和区划技术导则
05	干旱灾害调查与风险评估技术规范	中国气象局	资源-05	海冰灾害风险评估和区划技术导则
06	高温灾害调查与风险评估技术规范		 ※ 源-06	海流灾害风险评估和区划技术导则
0-07	留电灾害调查与风险评估技术规范	_	24.44	今国气象灾害风险评估技术规范-暴雨
0-08	台风灾害调查与风险评估技术规范	_	4.44	全国气象灾害风险评估技术规范 冰霜
2-09	雪灾灾害调查与风险评估技术规范	-		The first of the states of the first of the states of the
0-01	暴雨频率图编制技术要求	_		全国气象灾害风险评估技术规范一大风
0 02	中小流域洪水频率图编制技术要求	_		全国气象灾害风险评估技术规范-低温
	洪水灾害隐息调查技术要求	水利部	气象-05	全国气象灾害风险评估技术规范一干旱
D-04	山丘区中小河流洪水淹没图编制技术要求		气象-06	全国气象灾害风险评估技术规范-高温
A	干旱灾害风险调查评估与区划编制技术要求	1	1. 6	全国气象灾害风险评估技术规范-雷电

制订了47项调查类、45项评估区 划类普查技术规范,为推动建立全 国自然灾害风险防范信息管理业务 提供技术支撑。

47 survey and 45 assessment division survey technical specifications have been formulated to provide technical support for promoting the establishment of national natural disaster risk prevention information management.

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