



重视化学影响



水质介绍

2007年7月





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为什么污水处理计划对业务至关重要？



China says 60% of its water contaminated by pollution

Kyodo News, Japan - Jun 4, 2007

China said Tuesday that the **water** quality of its rivers and lakes face **pollution**," with 60 percent of the total contaminated to some extent .

Water Crisis, Water Shortage, Water Wars

Water shortage hobbles industrial production in places as diverse as Sicily ... All the lakes around **Mexico City** have dried and it is now sinking into the ...

www.progress.org/2005/water27.htm - 21k - [Cached](#) - [Similar pages](#)

India's rivers are drowning in pollution

Health Sentinel - Jun 4, 2007

India's Prime Minister, Manmohan Singh, has also co speech delivered on World **Water** Day in March, ...

Water theft: a crime blessed by government

Malta Today, Malta - May 28, 2007

At the 4th World **Water** Forum in **Mexico City** last Mar of privatisation and called for governments to re-enter th

Nor any drop to drink

Mexico City (home to 20 million people) is sinking because the **city** sucks out underground **water** faster than the aquifer can be refilled. ...

whyfiles.org/131fresh_water/ - 10k - [Cached](#) - [Similar pages](#)

Pakistan to raise river pollution issue with India at Indus Commission meeting

From our ANI Correspondent

water table is dropping one meter per year due to overpumping, and the Chinese admit that 300 cities are running short. They are diverting

When a World Bank official suggested several years ago that water wars are not far off, he might have had Egypt on his mind -- or Turkey, Syria and Iraq,

and other diseases. Meanwhile, in Bangladesh, what's been called the "largest poisoning of a population in history" has 35 to 77 million people drinking arsenic-laced water.

Water pollution a great threat for north India

Merinews, India - May 23, 2007

However, **Pollution** Control Research Institute (PCRI) Hardwar is monitoring and analysis in Western Yamuna Canal under Yamun

Of a population of roughly 6.1 billion, more than 1 billion lack access to potable water.



中国

普遍缺水和存在污染



图片：联合国大学出版社

- 7亿中国人民饮用的是有污染的水源
- 640个大中城市中，有300个城市面临缺水
- 100个城市面临严重缺水

来源：海峡时报，2007年1月20日

工业及城市用水：

目前： **180 B m³/year**
2030年： **280 B m³/year**
预计短缺：
11 B m³/year

来源：中国日报，2006年4月20日



图片：新千年生态系统评估，2005年。



墨西哥城

地下水枯竭和地面下沉

墨西哥城地下蓄水层自二十世纪初期就开始发生枯竭
自1934年以来下沉了**26-30英尺**
取水井从城市中心转移到郊区
部分地区仍以每年约38厘米的速度下沉



1973年人口：900万



2000年人口：1800万

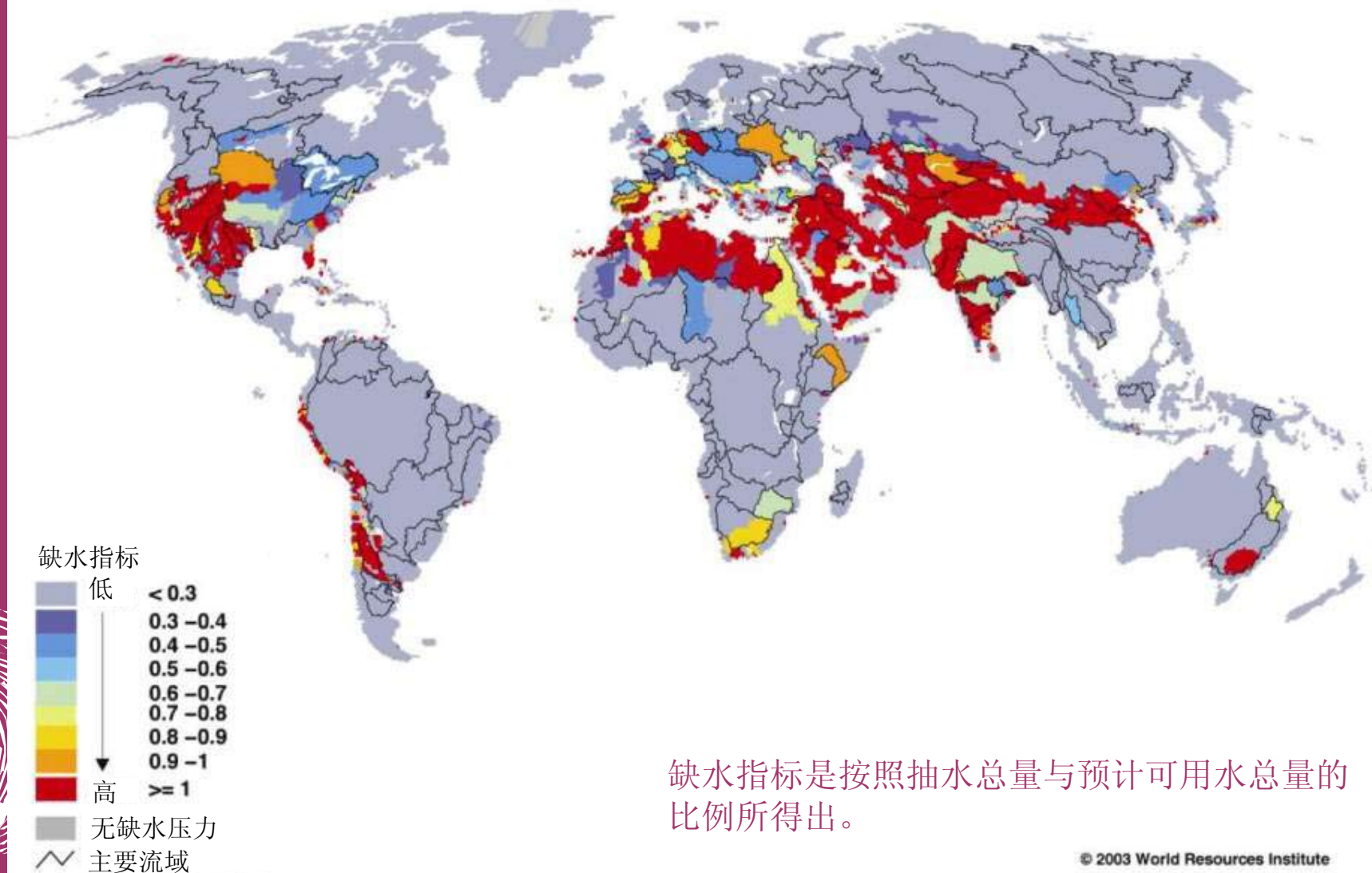
2007年人口：2200万

下沉数据：纽约时报，1998年1月
历史人口数据：联合国环境署
当前人口数据：<http://www.citypopulation.de/World.html>
图片：联合国环境署



全球缺水情况

缺水的压力对人类健康和经济发展造成威胁



缺水指标是按照抽水总量与预计可用水总量的比例所得出。



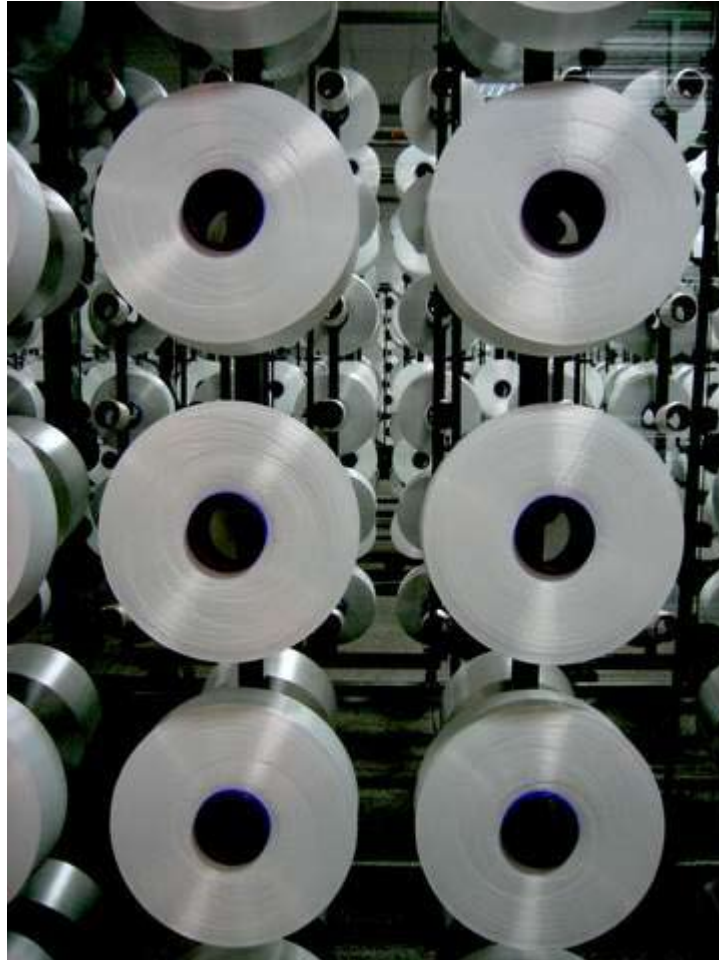
耐克公司签约生产工厂的分布

在缺水地区的工厂





缺水的商业风险



台湾地区布料生产初期的纱线。
图片：Chris Helmsworth, Nike WHQ.

- 成本
 - 水
 - 水电
- 供应
 - 可用性
 - 质量
- 资源的完备
- 管理的压力
- 员工的健康
- 社区关注
- 限制增长
- 品牌形象

改编自：亚太水资源研究所：私营部门所面临的风险管理，2004年8月



我们能为缺水的风险做些什么？

- ✓ 对使用和排放进行评价
- ✓ 对重要源地进行评估
 - 水文
 - 社会
 - 经济
 - 政治
- ✓ 制定政策、目的和目标
- ✓ 参与供应链
- ✓ 实施最佳管理方案
- ✓ 评价并报告成效
- ✓ 建立战略合作关系
- ✓ 致力于持续改善

这项工作
没有终点





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纺织品与用水

每磅布料用**15**加仑

每磅布料用**120**磅

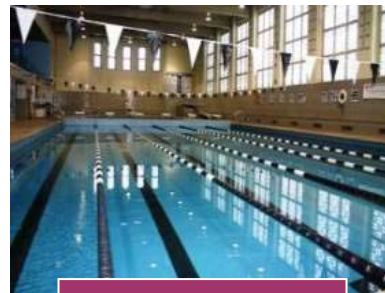
每千克布料用**26**升

耐克产品每年使用**2950**万
千克布料

每年用水**767,000 m³**



70 m³



2500 m³



86,300 m³

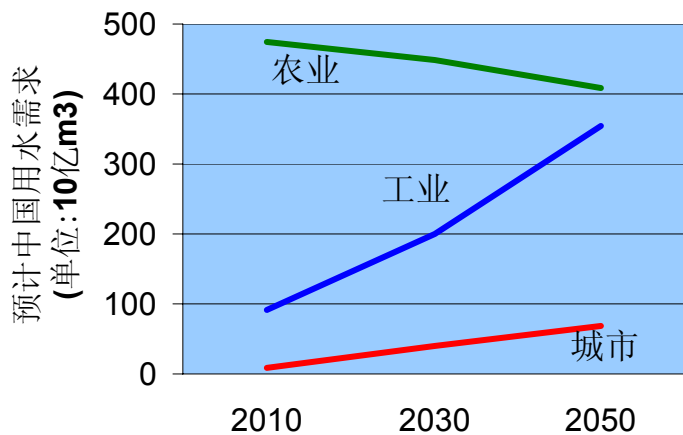
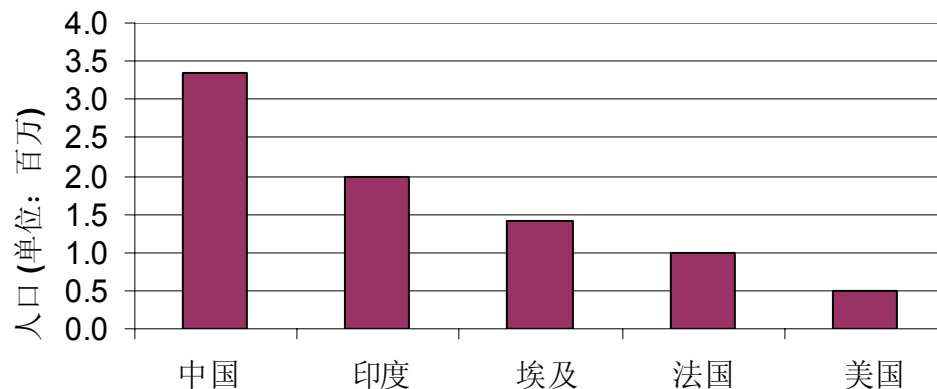


水的使用与可用情况

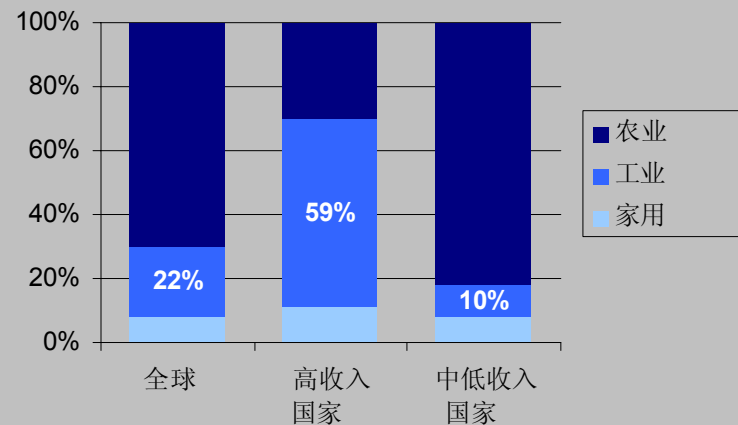
人均用水 (m ³ /年)	
马里	4
中国	32
印度	52
埃及	77
法国	106
美国	215

来源：耐克公司水资源计划数据
可持续发展政策研究所

按目前的人均用水可由供应链的水量所支持的人口数量



来源：耐克公司水资源计划数据
可持续发展政策研究所



来源：全球可持续发展事务委员会



制定目的和目标

重大风险区域

关注于五大**BSR**指标:

pH, BOD, COD, TSS, 颜色

处理效率指标

最大改善机会

目前未列入要求的金属:

测试费用较高

问题出现的频率较低

饮用水标准与污水标准



图片：德州农业科学与自然资源科技大学



耐克公司水资源计划的准则和标准

便捷的三个步骤

1. 列出污水量和分包商。
低于**50 m³/天** = 蓝色
超过**50 m³** 的分包商需要列入
2. 遵守当地和国家管理标准。
是 = 黄色
否 = 红色
3. 符合耐克公司五大**BSR**准则。
是 = 绿色

标准	符合当地管理标准?	符合耐克公司准则?
蓝色	污水量低于50立方米/天 *	
绿色	是	是*
黄色	是	否*
红色	否	否

* 耐克公司保留修改对供应商标准要求的权利。



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耐克公司水资源计划的工具

沟通便捷

NIKE GLOBAL WATER PROGRAM
FORM 1: REQUEST FOR SUPPLIER INFORMATION

Responsible parties from the textile industry and other manufacturers of water can cause serious, often irreversible, damage to both people and the environment. Your answers to the following questions will provide NIKE with information on the water use and potential environmental impact of materials from your facility. Please return this form and any other required documents to Nike via email (water@nike.com) or fax (973-229-2766).

Facility Information

Nike Supplier Code:	
Nike Location Code:	
Nike Supplier Alias:	
Nike Supplier Address:	
Supplier Contact Name:	
Supplier Contact Email Address:	
Supplier Contact Phone Number:	
Managing LO:	

Other than the address listed above, please provide the name and address of all other locations, dams, fishways, garment treatment facilities or subcontractors that produce products made/water produced at this additional page(s) if necessary. Also enter required additional information about each location listed below.

Name	Address	Business/Product	Water Use/Release
			... m ³ /day
			... m ³ /day
			... m ³ /day
			... m ³ /day

Form 1 - Nike Global Water Program - Information Form Page 1 of 1

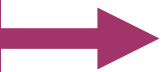


供应商交付给耐克

1 - 全部供应商地址, 工艺影响/效率情况处理 (如果有)

2 - 超过 50 m³/天许可和管理规定实验室检测结果

由耐克提供给供应商



NIKE GLOBAL WATER PROGRAM
GLOBAL WATER PROGRAM RATINGS AND ACTIONS

Supplier Location Information

Nike Supplier Code:	1234567
Nike Location Code:	8765432
Nike Supplier Alias:	Supplier Name, Inc.
Location Address:	1234 N. E. Rd., 12345, Business Development Zone, City, State, Country
Location Contact Name:	John Smith
Location Contact Email Address:	john.smith@supplier.com
Location Contact Phone Number:	987 654 3210
Managing LO:	LO1

Nike Global Water Program Rating

This location has a Nike Global Water Program Rating of **YELLOW** effective on **February 21, 2022**.

Water Use/Release Exceeds	Water Use/Release Exceeds (m ³ /day)	Proposed Action
NO	100	None
YES	150	Review process to reduce water use and improve efficiency.

Proposed Action

Nike requests that this facility take the following action(s):

To increase the rating to GREEN:
Management Program (approved when in compliance to 100 mg/L or less). Chemical Oxygen Demand should be tested to 100 mg/L or less.

Annual Recertification Process

This location should be assessed to verify water quantity and quality on an annual basis as long as their facility remains in good or fair status. Nike will request updated annual reporting data or location. Nike may also conduct random audits of wastewater effluent and will take appropriate action if results indicate any compliance concerns, regardless of monitoring frequency.

Approved by:
John Doe, Director of Product Chemistry and EHS

Please contact water@nike.com with questions or for additional information.
Form 2 - Nike Global Water Program Rating Form Page 1 of 1

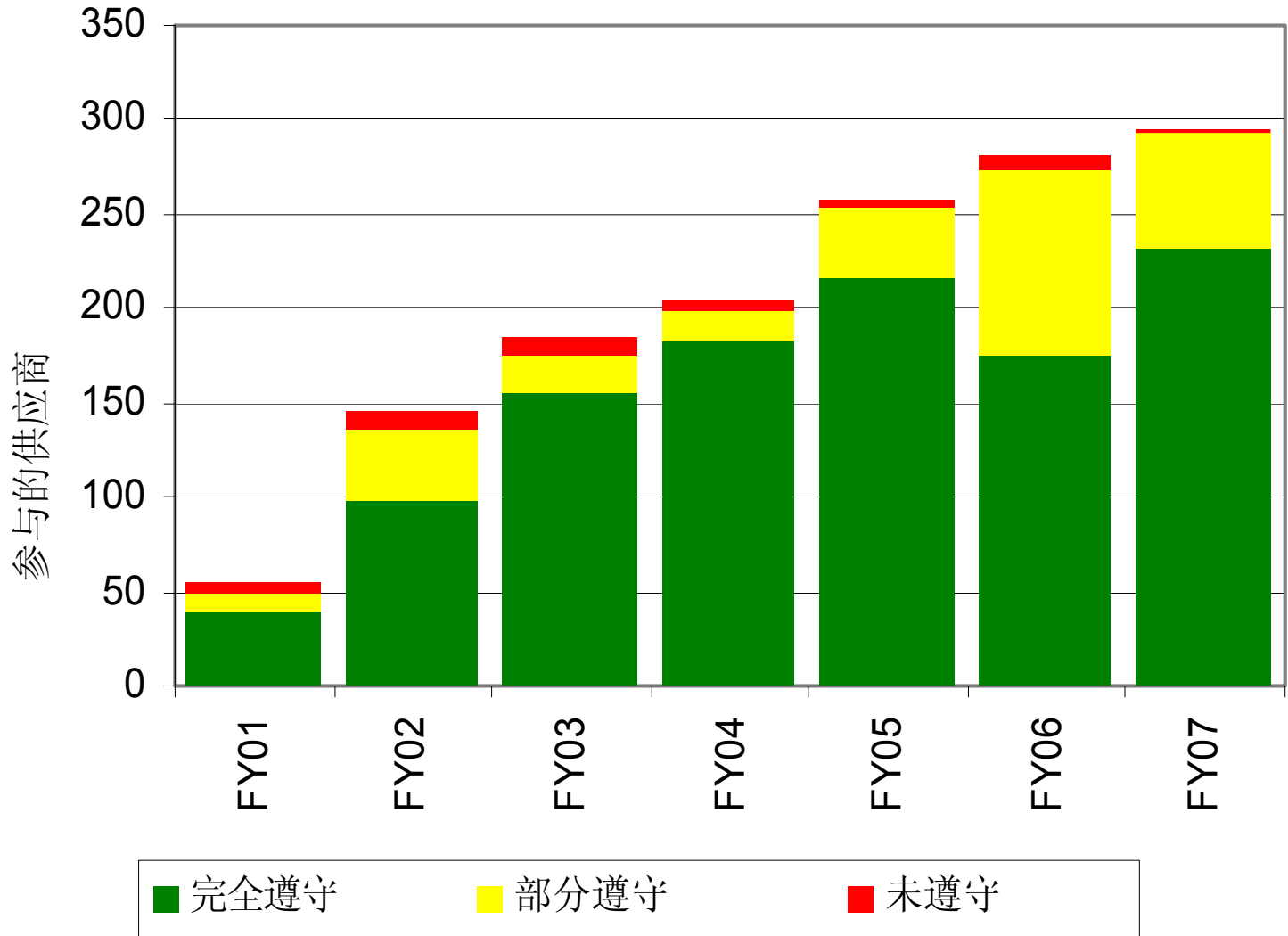
3 - 全部供应商传达标准建议改进新供应商的批准



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耐克公司水资源计划的遵守情况

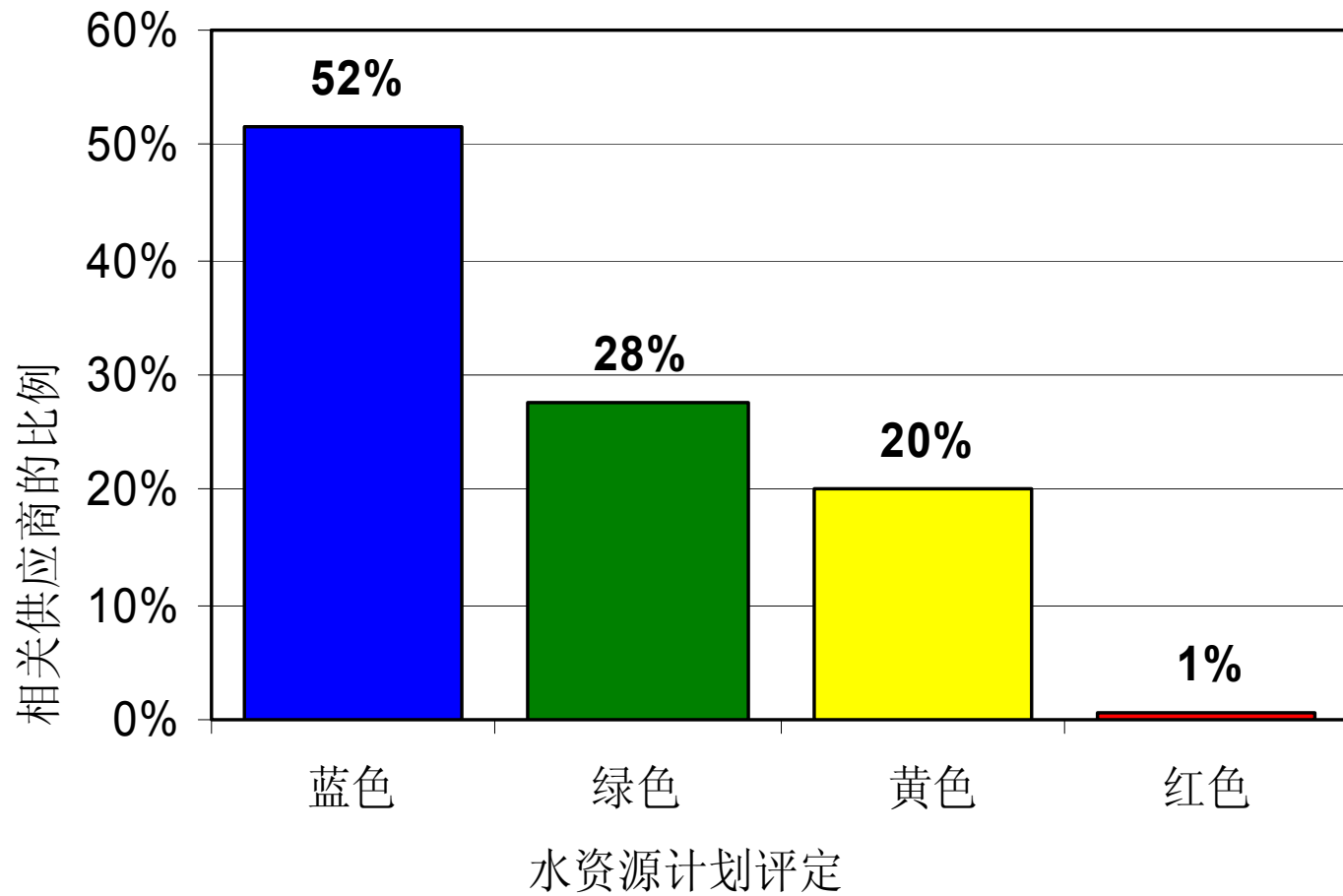




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2007年耐克公司水资源计划评定情况





影响：质量

14个原先评定为黄色 的供应商已经改善为绿色：

- 颜色
- TSS
- BOD

三个供应商已经在原来红色的基础上得到了改善：

- 更改了分包商
- 新的生物过滤
- 改善了pH和BOD





影响：年用水量

280亿加仑

1.07亿立方米

150万个庭院游泳池

43,000个奥林匹克标准的游泳池

1,200个小湖

基于312个生产日/年得出





接下来呢？

开发基于网络的表格

收集更多数据

利用可以获得的工具

培训供应商

The screenshot shows a web application interface for "Nike Waste Water Management". The header includes a Nike logo and navigation links for "System Administration", "Factory Information", "Password Maintenance", and "Help". A sub-header indicates the current page is "Manufacturing/Water Volume". The main content area contains a form with the following elements:

- A text input field for "Nike Supplier Name" with a masked value "XXXXXXXXXXXXXXXXXXXX".
- A question: "What type of processes are performed at your facility? Highlight all that apply. If you select other please list those below."
- An "Enter Text" input field.
- A list of process types with checkboxes: Spinning, Weaving, Knitting, Dyeing, Finishing, Cutting, Laundering, Denim, Trim, Embroidery, Printing, and Other.



AWQWG合作的机会

共享数据

共享最优方法

技术知识

国家管理及许可系统数据库

形成行业性关注 / 供应商培训

促进公共污水处理设施(POTW)的发展

