


US Army Corps of Engineers
Northwestern Division



Collaborative Water Resource Management

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Agenda

- Northwestern Division Overview
- Competing Purposes and Needs
- Collaborative Successes
- Collaborative Opportunities in Water Resource Management
- Imperatives for Action

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Northwestern Division Overview




District Headquarters
Divisional Headquarters

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Northwestern Division Two Primary Basins

Columbia River Basin



2 Countries, 4 States
259,000 square miles
Limited storage, ESA concerns, international water mgmt

Missouri River Basin



10 States
539,000 square miles
Extensive storage, drought history, upstream/downstream

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Navigation







Columbia River

- ◆ Serves 36 ports and carries 40% of U.S. wheat
- ◆ More than 485 miles of navigable water
- ◆ Transports 35 million tons of cargo each year
- ◆ Export & import traffic exceed \$12 billion annually





Missouri River

- ◆ Transports 8 million tons of cargo annually
- ◆ 735-mile long Bank Stabilization and Navigation Project - Sioux City to St. Louis
- ◆ Channel maintenance supplemented by two Corps river fleets

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Hydropower

- In Columbia Basin, 21 hydroelectric dams produce 12,900 MW.
- In Missouri Basin, 8 hydroelectric dams with 2,614 MW of capacity.
- Hydro is 12.1% of US power. NWD is 17% of US hydro- \$2.5 billion

Protection of Endangered Species

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- Endangered salmon in the Columbia Basin
- Endangered sturgeon, terns, and plovers in Missouri Basin.
- Stature of the Endangered Species Act

Recreation

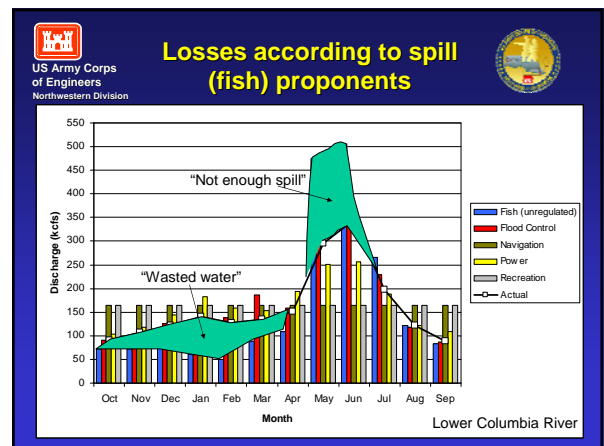
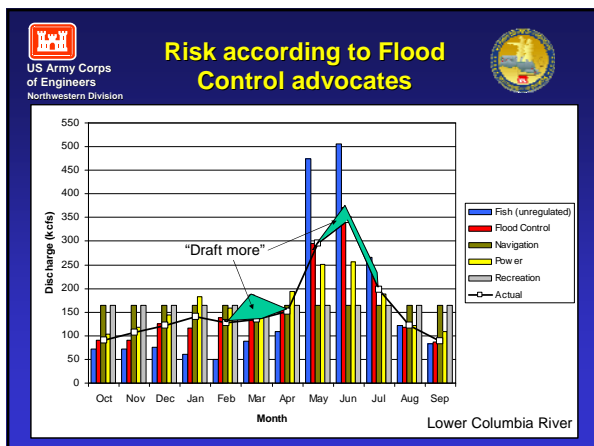
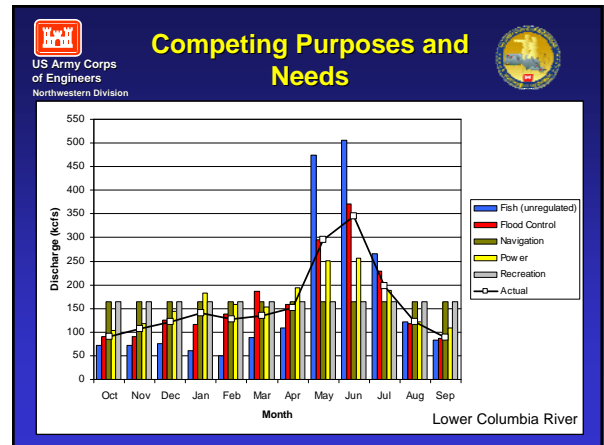
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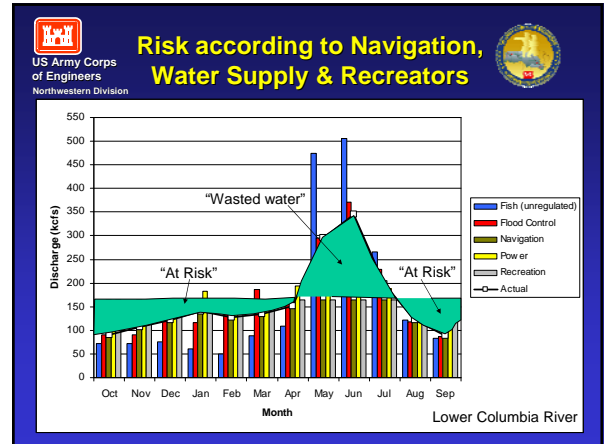
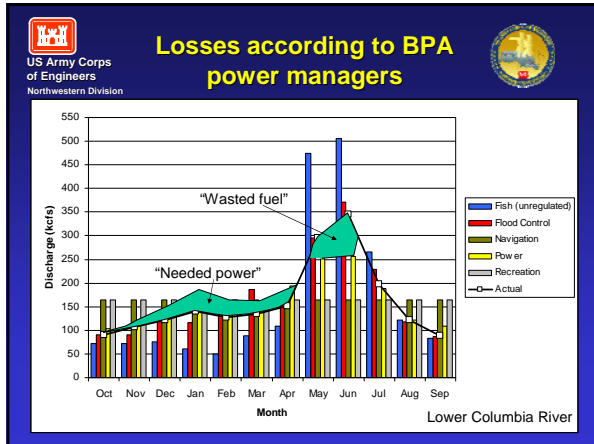
• Corps projects in NWD host more than 46 million visitors annually.

Flood Damage Reduction

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- NWD projects prevented \$32 billion in cumulative damages
- Columbia Basin drains 259,000 square miles
- Missouri Basin drains 539,000 square miles
- Flood control space ranges from 25% of Columbia's seasonal volume to 200% of Missouri's seasonal volume.





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Collaborative Success- International



NWD hosted delegations from:

- Brazil
- Mekong River
- Afghanistan
- Nigeria
- Norway

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Opportunities- Flood Control/ESA



Levee vegetation



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Opportunities- ESA



Salmon Recovery



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Opportunities- All Purposes



US-Canada
Columbia River Treaty



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Our Imperatives

- Collaborate** with all stakeholders
- Anticipate** future challenges
- Innovate** and embrace new solutions
- Communicate** openly and constantly

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Questions?