



U.S. Army Corps
of Engineers

Directorate of Civil Works

ENVIRONMENT-STEWARDSHIP



Avis Kennedy
Acting HQ Business Line Manager

1



U.S. Army Corps
of Engineers

Directorate of Civil Works

Stewardship - *Definition*

Environmental Stewardship

—An ethic and practice of maintaining the
viability of the Earth and its natural processes.

2



U.S. Army Corps
of Engineers

STEWARDSHIP - Mission

Directorate of Civil Works

Manage, conserve and protect the natural and cultural resources at Corps operating projects, consistent with project authorities and ecosystem sustainability approaches.



3



U.S. Army Corps
of Engineers

Stewardship – Responsibility

Directorate of Civil Works

- **456 multi-purpose projects**
- **Located in 43 States**
- **11.5 million acres of land and water**
- **56,000 shoreline miles**
- **Annual budget ~ \$93M**



4



U.S. Army Corps
of Engineers

STEWARDSHIP- Mandates

Directorate of Civil Works

- **Specific project authority**
- **Environmental laws (e.g. ESA, FWCA, ARPA, CWA)**
- **NEPA Section 101(b): the Federal government will use all practicable means to...**
 - **Fulfill its duties as trustee of the environment**
 - Assure safe, healthful and productive surroundings
 - Attain greatest beneficial uses of environment without degradation or undesired consequences
 - Preserve important historic, cultural, and natural aspects of our national heritage; maintain environment that supports diversity
 - Achieve balance between population and resource use
 - Enhance the quality of renewable resources...

5

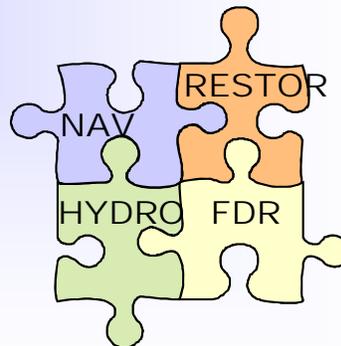
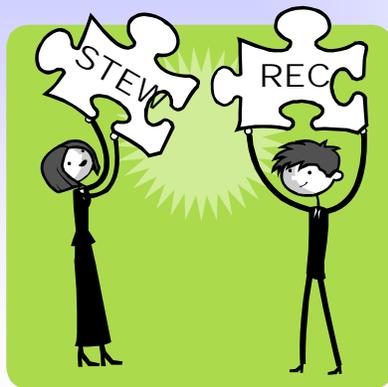


U.S. Army Corps
of Engineers

CW STRATEGIC PLAN

Directorate of Civil Works

Business Lines Roles



6



U.S. Army Corps
of Engineers

CW STRATEGIC PLAN - Goals

Directorate of Civil Works

- **Goal 1: Provide sustainable development and integrated management of the Nation's water resources.**
- **Goal 2: Repair past environmental degradation and prevent future environmental losses.**
- **Goal 3: Ensure that projects perform to meet authorized purposes and evolving conditions.**
- **Goal 4: Reduce vulnerabilities and losses to the nation and the Army from natural and man-made disasters, including terrorism.**
- **Goal 5: Be a world-class public engineering organization.**

7



U.S. Army Corps
of Engineers

STEWARDSHIP - Objectives for Goal 3

Directorate of Civil Works

- **3.1.3. Ensure healthy and sustainable lands and waters and associated natural resources on Corps lands held in public trust to support multiple purposes, i.e.,**
 - 3.1.3.1. Protect, preserve, and restore significant ecological resources in accordance with master plans.**
 - 3.1.3.2. Ensure that the operation of all Civil Works facilities and management of associated lands, including out-granted lands, **complies with the environmental requirements of the relevant Federal, State, and local laws and regulations.**
 - 3.1.3.3. Meet the mitigation requirements of authorizing legislation** or applicable Corps decision document.

8



U.S. Army Corps
of Engineers

STEWARDSHIP - Performance Measures

Directorate of Civil Works

- **Mitigation Compliance** - Percent of total Corps administered mitigation acres, or percent of total required pounds/or individuals of mitigation fish produced, that meet the requirements in the authorizing legislation or applicable Corps authorization decision documents.
- **Endangered Species Protection** - Percent of Corps operating projects with federally listed species for which the Corps is meeting Endangered Species Act requirements or responsibilities.
- **Cultural Resources Management** - Percent of Corps operating projects that meet federally mandated cultural resources management responsibilities.

9



U.S. Army Corps
of Engineers

STEWARDSHIP - Performance Measures

Directorate of Civil Works

- **Healthy and Sustainable Lands and Waters** - Percent of total Corps fee-owned acres that are classified as in healthy and sustainable condition.
- **Level One Natural Resources Inventory Completion** - Percent of total acres requiring Level One Natural Resources Inventory for which the Inventory is complete.
- **Master Plan Completion** - Percent of total projects requiring Master Plans for which the Master Plans are completed in accord with ER 1130-2-550.

10



U.S. Army Corps
of Engineers

STEWARDSHIP - Capability

Directorate of Civil Works

- **Capability**
 - 2 HQ Operations staff
 - 1600 permanent professionals nationwide
 - Budget average - **\$93 million**
 - FY 05 - \$94 million
 - FY 06 - \$91 million
 - FY 07 - \$95 million
 - FY 08 - \$90 million
 - FY 09 - \$96 million proposed

11



U.S. Army Corps
of Engineers

Stewardship – Strategic Planning

Directorate of Civil Works

- **STEWARDSHIP SUPPORT PROGRAM –**
 - ER 1130-2-540, Chapter 7
 - Provides broad support to the natural resources stewardship function:
 - Identify national program needs
 - Develop new national program activities
 - Strategic planning
 - Recommend national program funding priorities

12



U.S. Army Corps
of Engineers

Stewardship -Strategic Planning

Directorate of Civil Works

Stewardship Advisory Team –

- 16 members nationwide (Div/ Dist/ Proj reps)
 - To provide oversight for Stewardship Support Program
 - To serve as ad-hoc committee to Leader of NRM Community of Practice
 - Provide input to strategic planning
 - Make recommendation on national priorities for Stewardship Program

13



U.S. Army Corps
of Engineers

Stewardship Advisory Team

Directorate of Civil Works

Dallas, TX – Feb 2007



14



Environment Stewardship Overview July 2007

U.S. Army Corps
of Engineers

Directorate of Civil Works



Jonathan Davis

15



Evolution of Stewardship (Natural Resources) Policy

U.S. Army Corps
of Engineers

Directorate of Civil Works

- **1988 White Paper: Three Natural Resources Management Concepts Used by the Corps – Mitigation, Enhancement, and Stewardship.**
- **1989 National Task Force assembled to rewrite ER 1130-2-400 Natural Resources Management Regulation.**
- **1992 Department of Army Conservation Pillars established.**
- **1993 Natural Resources Management Initiative Task Force formed.**

16



U.S. Army Corps
of Engineers

Evolution of Stewardship (Natural Resources) Policy

Directorate of Civil Works

- 1994 Operations Performance Indicators established.
- 1996 Operations Performance Measures implemented.
- 1996 Initial development of CW Natural Resources Performance Measures.
- 1996 ER 1130-2-540 Environmental Stewardship Operations and Maintenance Policies.
- 2002 Stewardship Advisory Team for the Stewardship Support Program.
- 2002 Environmental Operating Principles issued by the Chief of Engineers.

17



U.S. Army Corps
of Engineers

Environmental Operating Principles

Directorate of Civil Works

Corps Vision Statement states: *“As an integral part of our mission, the Army Corps of Engineers will be a national leader in environmental and natural resource stewardship for present and future generations”*

- Development initiated by Chief of Engineers in April 2001.
- Launched formally in March 2002.
- Principles are broad
 - to apply the current range of Corps activities.
 - to guide environmental responsibilities of the Corps in the future.

18

fk2



U.S. Army Corps
of Engineers

Directorate of Civil Works

Stewardship – Application

- **Natural Resources Management Plans**



- **Cooperate with States and Fish and Wildlife Service**

- Leases and license agreements
- State Heritage Offices



- **Cooperate with NGO's on environmental improvement**

- Challenge Partnership opportunities
- Contributions Program
- Volunteers



- **MOU's and MOA's**

21



U.S. Army Corps
of Engineers

Directorate of Civil Works

Stewardship Corporate Goal: **Healthy lands and waters for future generations**

- Land management within watersheds consistent with ecosystem management principles.
- Stewardship activities comply with applicable environmental laws and regulations.
- Project lands are retained for the life of the project.

22

Slide 21

jfk2

e1oppjk9, 2/7/2005



U.S. Army Corps
of Engineers

Natural Resources Management – Authorization

Directorate of Civil Works

General Authorities - “Umbrella” Stewardship

- **Migratory Bird Treaty Act, 1918** (16 USC 730) - identifies the migratory birds to be protected and conserved by the U.S. Government.
- **Flood Control Act, 1944** (16 USC 460d) - provides for facilities in reservoir areas for public use, including recreation and conservation of fish and wildlife.
- **Fish and Wildlife Coordination Act, 1958** (PL 85-624) - provides for use of civil works projects for conservation, maintenance and management of fish and wildlife resources and wildlife habitat; General Plans.

23



U.S. Army Corps
of Engineers

Natural Resources Management – Authorization

Directorate of Civil Works

- **Water Resources Development Act of 1990** (PL 104-640) - establishes the Corps "environmental protection" mission in the planning, design construction, operations and maintenance of water resources projects.
- **Army and Corps Regulations and Policy** ER 1130-2-540.
- **Antiquities Act, 1906** - provides for protection of archeological resources on Federal lands.
- **Historic Sites Act, 1935** - Established National Register of Historic Places and a national policy to preserve for public use historic sites, buildings, and objects for the inspiration and benefit of the people of the U.S.
- **National Historic Preservation Act, 1966** - governs preservation of historic and archeological resources of national, regional, state and local significance.

24



U.S. Army Corps
of Engineers

Project Authorizations

Directorate of Civil Works

Land Allocation - Project Specific

- Authorization tells how land is to be acquired.
- Usually for project purposes.
- Sometimes specifically for fish and wildlife, or recreation.

Project Purposes - Traditional

- Hydropower
- Flood Control
- Navigation
- Fish and Wildlife
- Recreation



25



U.S. Army Corps
of Engineers

Project Documentation

Directorate of Civil Works

Feasibility Reports

- Fish and Wildlife Coordination Act Reports

Decision Reports

- ROD's
- HQ, Congress approved

Design Memoranda

NEPA Documents

Mitigation Implementation Plans

26



U.S. Army Corps
of Engineers

Directorate of Civil Works

Documents Driving Natural Resources Stewardship

Project Level Process



27



U.S. Army Corps
of Engineers

Directorate of Civil Works

Documents Driving Natural Resources Stewardship

Master Plan

Conceptual, broad-based Resource Use Objectives.

Means to organize natural resources.

Land classifications -need completed Level One (general) inventory

General Plans

Prepared/ approved pursuant to Fish and Wildlife Coordination Act.

Covers existing project lands used for fish and wildlife purposes.

- Under the administration of other agencies.
- On lands acquired for fish and wildlife mitigation.

28



U.S. Army Corps
of Engineers

Directorate of Civil Works

Documents Driving Natural Resources Stewardship

Operational Management Plan (OMP)

1. For implementation of management objectives.
2. A planning/budgeting tool.
3. Monitor status - need Level Two (more detailed) Natural Resources Inventory.

O&M Budget EC

1. Means to resource the Operational Management Plan.
2. To be “performance based” -- tied to performance measures.

29



U.S. Army Corps
of Engineers

Directorate of Civil Works

Significance of Corps Natural Resources

- North American Waterfowl Management Plan (NAWMP)
 - 1989 Coop. Agreement of Interior and Corps
 - Objective: Identify extent that NAWMP goals may be accomplished on Corps project lands.
- 43% of Corps acreage (4,300,000 acres) that is available for management has significant waterfowl use or development potential.
- Corps responsible for 8.8% of acreage (1,700,000 acres) within NAWMP Joint Venture Areas.
 - Acreage represents 15% of total Corps property.
 - 66 projects within eight of the Joint Venture Areas.

30



U.S. Army Corps
of Engineers

Directorate of Civil Works

Endangered Species Habitat

Key habitat (water, edge, forage, cover) at many projects. Nationwide decrease in songbirds, bats, amphibians, etc.

- Eagles a success story - off endangered list.
- Coordinate/ consult with Fish and Wildlife Service (FWS) on numerous of species, nationwide.
- Corps annual expenditures for ESA species close to \$100M.
- Pacific salmon alone approx. \$20M each year since 1992.
- Corps participating in recovery of nearly 100 listed species at over 300 Corps projects.

31



U.S. Army Corps
of Engineers

Directorate of Civil Works

Other Significance

Hunting and Fishing

- Corps lands/ waters accommodate over 100 million (and increasing) fishing visits annually (15% of all trips)
- Corps lands and waters accommodate about 9 million (decreasing) hunting visits annually

Greenways/ aesthetics

- Federal lands are only public lands in many locations.
- Increasing population and expanding development make open space more critical (for human and wildlife).

Natural resources are the base for tremendous recreational opportunities.

32



U.S. Army Corps
of Engineers

Directorate of Civil Works

Stewardship Program Assets

Project Staff

- Highly qualified, professional, enthusiastic.

Interest and Support

- Public interested – they like what we do.
- Public is a friend - not an enemy.
- Corps has natural resources and goals.
- Opportunities exist for the public to help accomplish our natural resources stewardship goals.
 - “Big bucks” not always required.
 - Challenge Partnerships.
 - Volunteers give “hands on” support.

33



U.S. Army Corps
of Engineers

Directorate of Civil Works

Bottom Line

The Corps has adequate authorities and ample opportunities for managing our natural and cultural resources.

Our stewardship responsibility is to just do it!

34



U.S. Army Corps
of Engineers

Directorate of Civil Works

Success Stories / Challenges / Questions



35