

Introduction to Conservation Banking







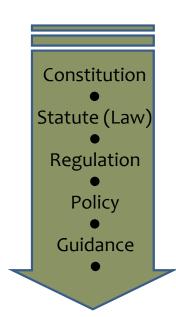
Compensatory Mitigation Programs: Purpose and Goals

- Aid in recovery of Endangered Species Act (ESA) listed species
- Promote sustainable, landscape-scale approach to mitigation
- Provide economically effective process for project proponents
- Aid in preventing future ESA listings
- Reduce the Services' ESA workload
- Improve regulatory processes for project proponents



Authorities – Laws and Regulations*

- Endangered Species Act (ESA)
- Fish and Wildlife Coordination Act (FWCA)
- National Environmental Policy Act (NEPA)
- Clean Water Act (CWA)
- Oil Pollution Act & CERCLA (NRDA/NRDAR)
- Bald & Golden Eagle Protection Act (BGEPA/Eagle Act)
- Federal Land & Policy Management Act (FLPMA)
- Water Resources Development Act (WRDA)
- National Defense Authorization Act / Sikes Act
- Rivers and Harbors Act
- Magnuson-Stevens Act
- Other Federal and State Laws and Regulations



*not comprehensive



Current
Mitigation
Policies
(as of October 2020)

1981 USFWS Mitigation Policy

2003 USFWS Conservation Banking Guidance

2008 USFWS Recovery Crediting Policy

2018 USFWS Policy Regarding Voluntary Prelisting Conservation

2019 NMFS West Coast Region Conservation Banking Tips and Tools

2008 USACE & EPA Compensatory Mitigation for Losses of Aquatic Resources: Final Rule

2018 BLM IM on Mitigation

State or local regulations where applicable

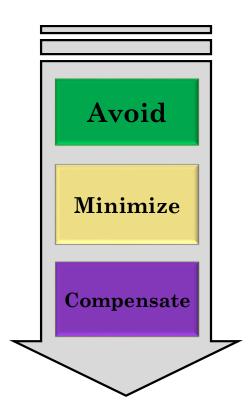


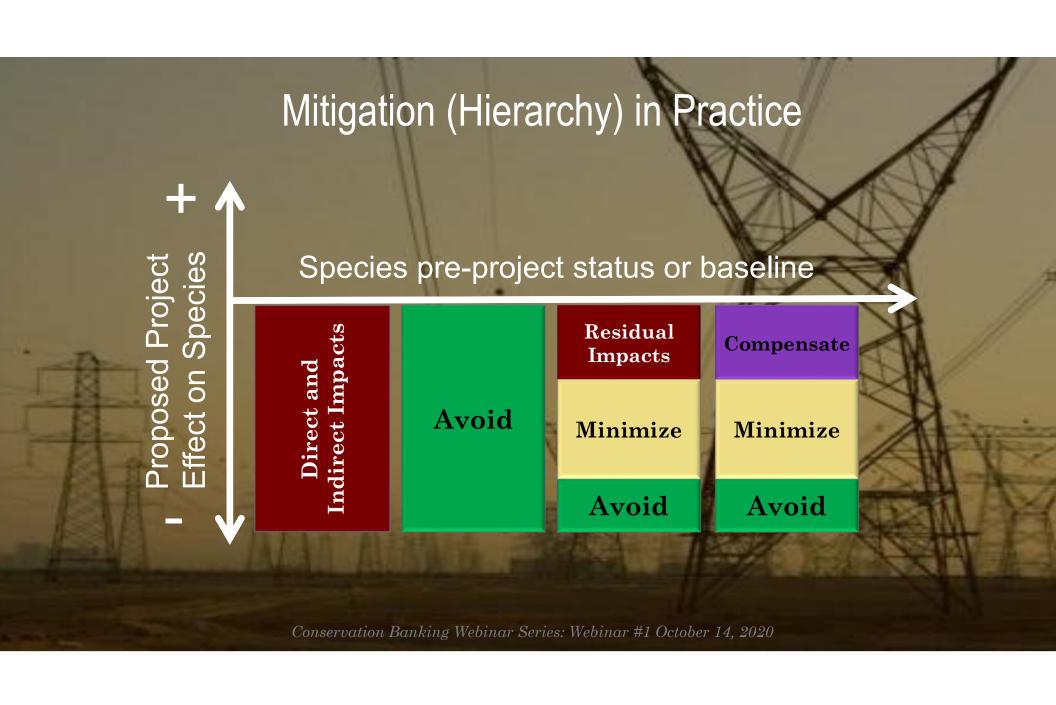
Mitigation Hierarchy

Council On Environmental Quality (CEQ). 40 CFR § 1508.20 - Mitigation

Mitigation includes:

- Avoiding the impact altogether by not taking a certain action or parts of an action.
- **Minimizing** impacts by limiting the degree or magnitude of the action and its implementation.
- **Rectifying** the impact by repairing, rehabilitating, or restoring the affected environment.
- Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.
- **Compensating** for the impact by replacing or providing substitute resources or environments.





Compensatory Mitigation Mechanisms

Single Party

 Permittee Responsible Mitigation (PRM)

Third Party

- Conservation Bank
- In Lieu Fee (ILF)
- Habitat Credit Exchange
- Recovery Crediting System

Programmatic

- Programmatic ESA Consultation & MOU Approaches
- Pre-Listing Mitigation Programs



Mitigation Principles and Standards

Compensatory mitigation practices across the world are guided by the following:

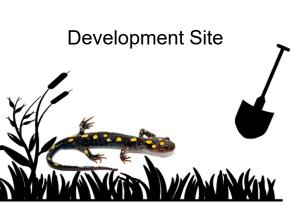
- Mitigation hierarchy
- In kind
- Landscape approach
- Transparency, consistency, collaboration
- Science as a base
- Consistent metrics
- Actions should be timely, well sited, additional, durable, effective, and accountable



A sample of conservation bank sites across the U.S.

Conservation Bank

is a site or suite of sites
that is conserved and managed in perpetuity
and provides ecological functions and services, expressed as credits,
for specified species that are later used to compensate
for adverse impacts occurring elsewhere to the same species











ESA "Market"

170 Conservation Banks



1,666 ESA-listed Species ~70 species covered by banks and ILFs





Data sources: RIBITS October 2020; ECOS October 2020



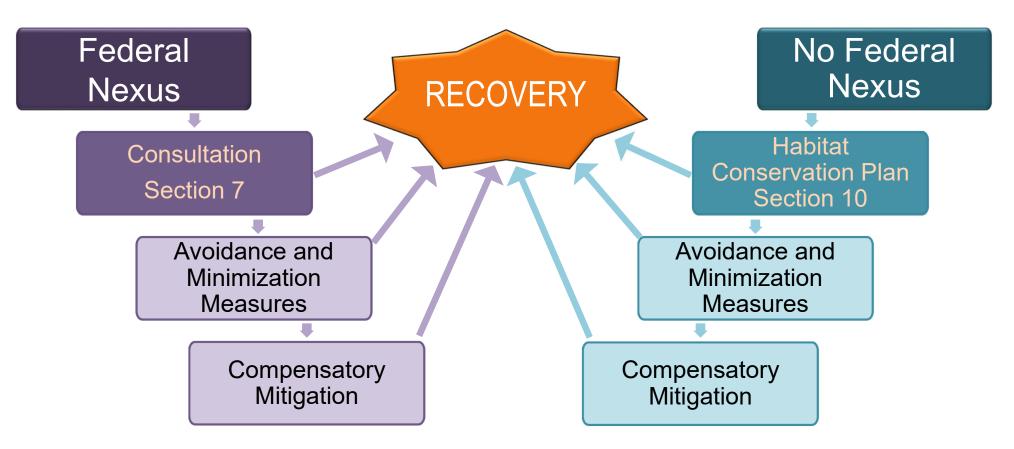


ESA "Market"



Data source: RIBITS October 2020

Incidental take of listed species can be authorized under ESA Sections 7(a)(2) and 10(a)(1)(B).





Section 7 - Role for Compensatory Mitigation

- 1. Incorporated into the Proposed Action (Conservation Measures)
 - to mitigate unavoidable negative effects of the proposed action

mandatory measures

- 2. As Conservation Recommendations
 - discretionary - to avoid, minimize, or mitigate adverse effects on listed species or critical habitat
- 3. As a Reasonable and Prudent Alternative (RPA)
 - to avoid likelihood of jeopardizing continued existence of a listed species or destruction or adverse modification of critical habitat

mandatory measures

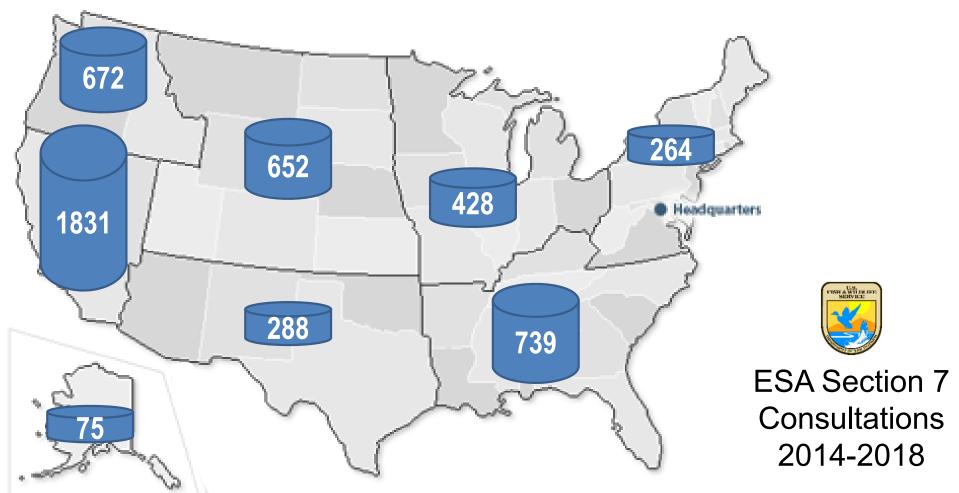
measures

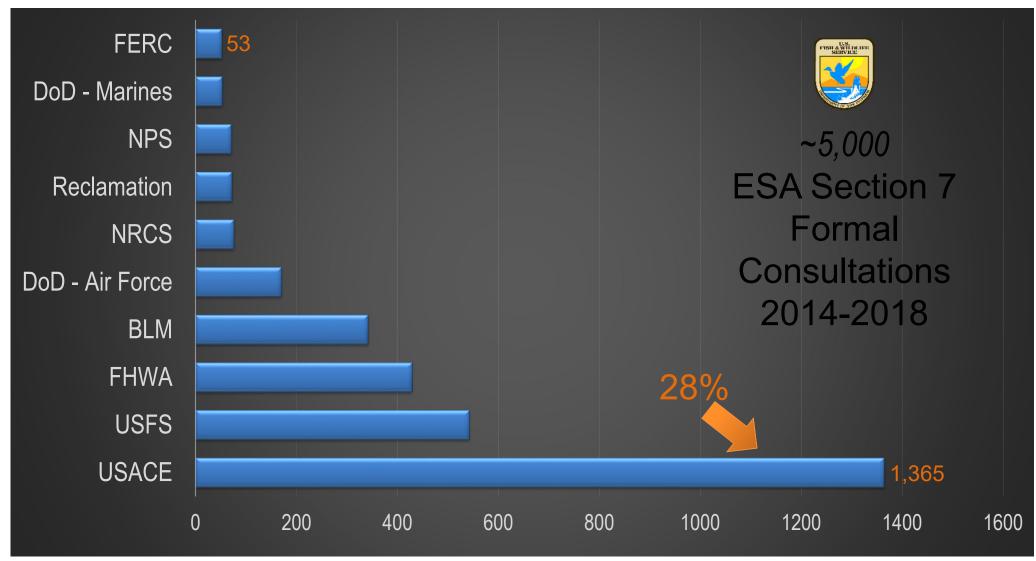


Section 10 - Habitat Conservation Plans (HCP)

- Tool for landowners undertaking activities that may incidentally take listed species.
- Provides Incidental Take Permit (ITP) with regulatory certainty "No Surprises"
- Describes minimization and mitigation measures to offset effects
- Mitigation may include purchase of credits in a bank
- Regional HCPs facilitate comprehensive planning and can incorporate banks or in-lieu fee programs

Source: USFWS TAILS





Conservation Banking Webinar Series: Webinar #1 October 14, 2020

History of Conservation Banking

The roots of conservation are in wetland mitigation banking.

First "conservation bank site" is Coles Levee Ecosystem Preserve California, 1992

*Some sources recognize Carlsbad Highland Conservation Bank, San Diego County, CA, 1995, as first conservation bank



Coles Levee Ecosystem Preserve



1973 Endangered Species Act (ESA) - amended in 1982 1981 **USFWS Mitigation Policy** 1992 *first* conservation bank established – Coles Levee 1995 first USFWS programmatic biological opinion promoting conservation banks 1996 State of California "official policy" on banks 2003 USFWS Guidance for Establishment, Use, and Operation of Conservation Banks **USACE/EPA Mitigation Rule** 2008 2019 NOAA NMFS West Coast Region Conservation Banking Program Tips and Tools



Why do Conservation Banking?

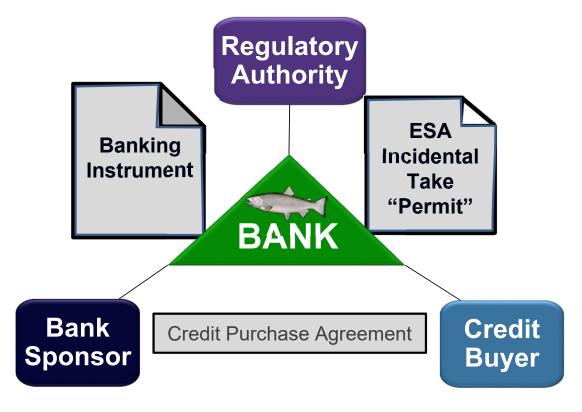
Biological Benefits

- Aid in recovery (outcome-based, traceable, baseline)
- Preserve ecosystems
- Avoid piecemeal mitigation
- Avoid time lag issues
- Contributes to science
- Contributes to community conservation strategies
- Long term durability

Business Benefits

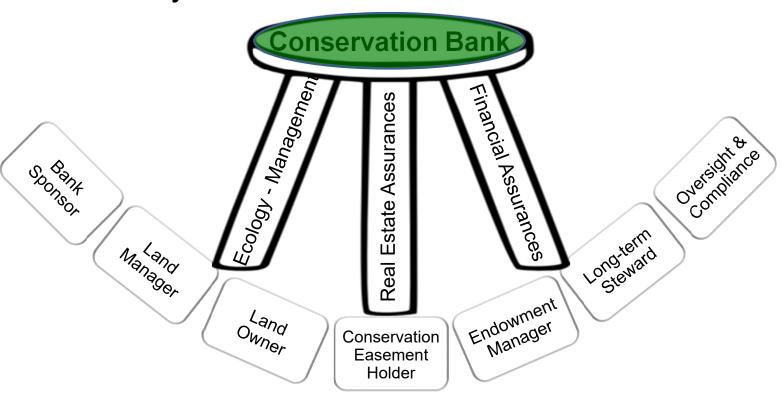
- Streamlined permit process
- Transfer of liability
- Reduced mitigation costs
- Reduced agency compliance/monitoring time
- Reduced need for enforcement
- Multi-land use compatibility
- Revenue
- Brings together development and environmental communities

Economies of Scale



Conservation
Banking is a
"3rd party"
compensatory
mitigation system

Key Roles in Conservation Banks







Early
Coordination
& Scoping

Proposal

Instrument

Operation & Management

Closure & Long-term Stewardship

Relative Lifespan of a Bank





Regulatory In-lieu Fee & Bank Information Tracking System

ribits.usace.army.mil

All conservation banks approved by NMFS & USFWS are in RIBITS and visible to the public.



Mud Slough Mitigation Bank, OR Photo: Jaimee Davis/USACE



Future of Conservation Banking

- Umbrella banking agreements
- More aquatic banks
- On-line "tool boxes" developed by Services' Regional and Field offices with templates
- Expanded joint banking, including possible incorporation of other credit types (e.g., carbon, water quality)
- "Next generation" of conservation banking holistic approach to ecosystem restoration and management / biodiversity banking

