Endangered Species Act Section 7(a)(1): Conservation Planning, Mission Support, and Species Recovery



Section 7(a)(1) of the Endangered Species Act—Supporting Agency Missions through Proactive Conservation Planning and Endangered Species Recovery

















Federal TES Expenditures

Agency/Land Ownership

NPS – 84 million acres

FWS - 89 million acres

BLM - 253 million acres

USFS - 193 million acres

Expenditure (2014)

\$ 13,000,617

\$159,368,673

\$ 22,398,174

\$ 45,983,888





Federal TES Expenditures

Agency/Land Ownership

NPS - 84 million acres

FWS - 89 million acres

BLM – 253 million acres

USFS - 193 million acres

DoD – 42 million acres
U.S. Military
USACE

Expenditure (2014)

\$ 13,000,617

\$159,368,673

\$ 22,398,174

\$ 45,983,888

\$337,383,601

\$111,760,850

\$225,622,751





USACE TES Expenditures

► USACE TES conservation and compliance spending averages ~\$230 million per year

FY14 Top Ten Costliest TES Species

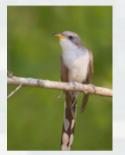
	Common Name	Total
1	Salmon, chinook	\$65,209,235
2	Sturgeon, pallid	\$62,619,597
3	Steelhead	\$31,828,548
4	Salmon, sockeye	\$10,715,945
5	Tern, least	\$8,431,784
6	Plover, piping	\$8,307,257
7	Flycatcher, southwestern willow	\$3,847,451
8	Salmon, coho	\$3,270,107
9	Salmon, chum	\$2,305,573
10	Trout, bull	\$2,302,528
	Top 10 Total	\$198,838,025
	Percent of FY14 Total	87.57%





- 85% of USACE expenditures are on fish
- 10% on birds









Salmon, chinook (9 Populations)	\$73,851,410
Steelhead (11 populations)	\$51,907,342
Sturgeon, pallid	\$48,718,484
Salmon, sockeye (2 Populations)	\$14,293,621
Flycatcher, southwestern willow	\$7,668,176
Salmon, chum (2 Populations)	\$6,102,995
Minnow, Rio Grande silvery	\$5,787,904
Plover, piping (2 Populations)	\$5,339,877
Tern, least	\$4,467,906
Salmon, coho (4 Populations)	\$3,404,322
Sturgeon, Atlantic	\$2,248,191
Vireo, least Bell's	\$2,229,661
Sturgeon, shortnose	\$1,628,115
Sturgeon, North American green	\$1,385,026
Woodpecker, red-cockaded	\$1,058,791
Trout, bull	\$979,656
Smelt, delta	\$586,391
Bat, Indiana	\$560,676
Sea turtle, loggerhead	\$496,875
Manatee, West Indian	\$469,134



BIRDS

MAMMALS

REPTILES/AMPHIBIANS









Military Services Expenditures (FY14)

- 28% of FY13 DoD expenditures are on birds
- 21% on mammals
- 15% on plants









Woodpecker, Red Cockaded	\$9,333,009.00
Shrike, San Clemente loggerhead	\$2,962,285.00
Tortoise, Desert	\$2,525,682.93
Whale, Humpback	\$1,790,474.00
Whale, Fin	\$1,421,725.00
Whale, Sperm	\$1,261,509.00
Whale, Blue	\$1,217,763.00
Plover, Western Snowy	\$1,191,235.00
Whale, Sei	\$1,093,605.00
Owl, Mexican Spotted	\$1,087,106.00
Bat, Indiana	\$1,006,259.00
Whale, North Atlantic Right	\$983,904.00
Turtle, Green Sea	\$957,660.00
Jay, Florida Scrub	\$954,516.00
Abalone, Black	\$878,561.00
Marine Mammals (EIA)	\$859,281.00
Whales, False and Pygmy Killer**	\$858,798.00
Tern, California Least	\$815,490.00
Warbler, Golden-Cheeked	\$814,200.00
Seal, Hawaiian monk	\$811,283.00

INVERTEBRATES

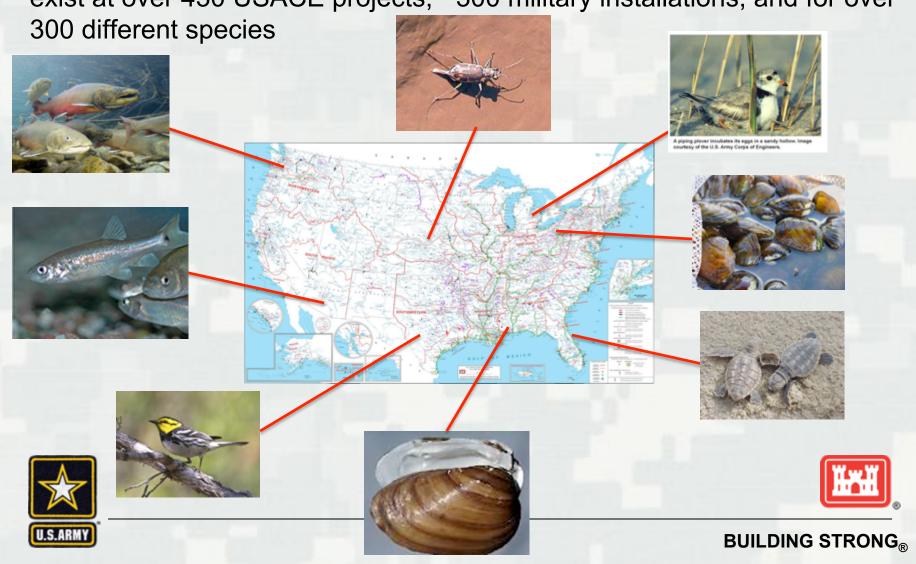
BIRDS

MAMMALS

REPTILES/AMPHIBIANS



► TES conservation concerns and potential mission impacts currently exist at over 430 USACE projects, ~300 military installations, and for over



▶ Under the USFWS National Listing Workplan, many any additional listings or critical habitat designations are expected to occur by 2023















▶ USACE has had no formal and organized strategy to address TES

► Single-species approaches used to date have provided mixed results in terms of meeting the objective of easing operational constraints on

the Corps.







USACE Threatened & Endangered Species Team (TEST)

Purpose

Accelerate the development of solutions to priority threatened and endangered species issues that will:

- ► Improve operational flexibility
- Reduce future costs
- ► Improve budget planning capabilities
- Reduce adverse impacts to mission execution
- Improve species conservation outcomes (including Recovery)











What is the Threatened & Endangered Species Team (TEST)?

Objectives

- Identify and document TES with biggest impacts to USACE mission (monetarily and operationally)
- Prioritize resolvable TES issues with respect to potential Return on Investment (ROI)
- Investigate system-level approaches with high ROI (e.g., beach nourishment; RSM = Beneficial Uses of Dredged Material)
- Identify needed R&D that has high impact to TES recovery and/ or decreases mission impact
- Develop a R&D investment plan based on priorities and ROI
- Integrate ESA Section 7(a)(1) as a proactive tool for conservation and recovery





USACE Threatened & Endangered Species Team -TEST Advancing the USACE Approach

- "T" in TEST
 - ▶ HQ Mr. Joe Wilson, Coordinating Lead; Legal, Business Line Leaders, Others
 - ▶ MSC & District Chiefs and T&E Leads
 - ► ERDC Dr. Todd Bridges, Senior Scientist; Dr. Richard Fischer, Lead Coordinator; and Subject Matter Experts (SMEs) across labs



- ▶ District Staff Project Managers, SMEs
- ► Additional USACE Resources IWR, Mr. Jeff Krause (NRM); Military Programs T&E SMEs, others
- Resource Agencies, Industry, Academia, Other Stakeholders





TEST Workshop Action Items

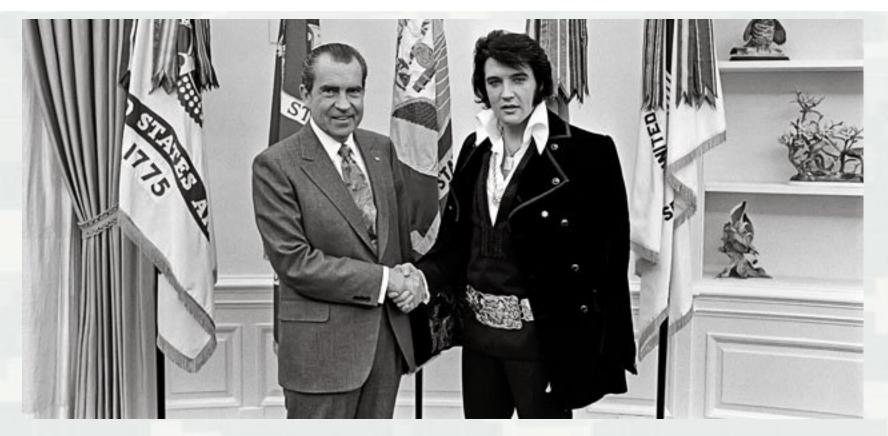
- Develop comprehensive long-term strategy for addressing TES within USACE
- Establish a prioritized TES list to better inform how we make investments (and subsequent ROI)
- Develop a proactive strategy for predicting unlisted species likely to impact future missions
- Explore modeling frameworks having concurrent monitoring, adaptive management and risk assessment
- Design big picture projects that will make a difference (rather than current piecemeal approach)
- Modernize internal and external communication (improved websites; social networking)

ESA SECTION 7(a)(2)

Each Federal agency shall ... insure that any action ... is not likely to jeopardize the continued existence of any endangered species or threatened species...or result in destruction...of (critical) habitat...

Section 7(a)(2) consultations

- Occur when actions of a FEDERAL agency (funded, or permitted by) may adversely affect a listed species
- For example, dam operations by the USACE may affect Interior Least Terns & Great Plains Piping Plovers
- Action agency writes Biological Assessment
 - ▶ If FWS determines that action is "likely to adversely affect..."
- FWS writes Biological Opinion (issues IT statement)
 - ► Jeopardy analysis (do actions jeopardize continued existence?)
 - If no, reasonable and prudent measures, terms and conditions
 - If yes, reasonable and prudent alternatives



"I have today signed ...the Endangered Species Act of 1973....this legislation provides the Federal Government with the needed authority to protect an irreplaceable part of our national heritage - threatened wildlife.

"This important measure grants the Government both the authority to make early identification of endangered species and the means to act quickly and thoroughly to save them from extinction.

President Richard M. Nixon, 1973



History

40+ years of using ESA Formal Consultation through Section 7(a)(2)

- Adversarial
- Confrontational
- Dictatorial
- Costly
- Little Flexibility
- Unpredictable
- · Little or no control
- Losing process for the species

PURPOSE OF SECTION 7(a)(1)

To address the conservation (recovery) needs of listed species relative to Federal Program impacts.

- ➤ Sec. 7(a)(1) of the Act directs federal agencies to utilize their authorities to further the purposes of the Act by carrying out conservation programs for listed species.
- ➤ Section 7(a)(1) conservation programs are to improve listed species baselines within the scope of Federal action agency authorities.

Conservation Benefits

"Section 7a1 allows FWS or NMFS to work continuously with a Federal agency to develop a program of species conservation that uses all the agency's authorities, is at the agency's disposal at all times, and does not depend on the presence of a particular project for implementation." (Ruhl 1995)

New Approach

Section 7(a)(1)

- Allows agencies to be proactive in consultation and conservation processes rather than reactionary
- Reduces surprises and conflicts
- We commit to actions we would be predisposed to undertake anyway under 7(a)(2)
- Reduce future 7(a)(2) consultations
- Actions contingent upon availability of funds providing budget predictability
- Improves likelihood of species recovery

Conservation Management Agreements

- Explicit plans for specific management actions
- Formal agreement enables long-term management
 - Any combination of agencies and organizations
 - Partners must have legal authority for management
 - Agreement must contain funding mechanisms
 - Agreement must be legally enforceable
- De-listing possible (protections of ESA not needed)

USACE/USFWS 7(a)(1) Coordination



United States Department of the Interior

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FISH AND WILDLIFE SERVICE Washington, D.C. 20240

In Reply Refer To: FWS/AES/DER/BCP/058968

JAN 0 9 2015

Memorandum

To: Regional Directors

Attn: Assistant Regional Directors, Ecological Services

From: De

Subject: Working with the U.S. Amy Corps of Engineers to Improve the Effectiveness of the Endangered Species Act (ESA) by expanding the use of Section 7(a)(1)

Section 7(a)(1) of the ESA requires all Federal agencies to use their authorities, in consultation with the Service, to carry out programs for the conservation of listed threatened and endangered species. Pronetive and collaborative conservation using 7(a)(1) programs can improve outcomes for listed species and streamline Section 7(a)(2) consultation processes. In addition, larger scale, more integrated approaches to the conservation of these species should improve interagency communication, cooperation, and trust, as well as promote adaptive management, strategic habitat conservation, and operational flexibility.

Recently, USACE Mississippi Valley Division and the Service's Southeast Region broke new ground through collaborative development and implementation of a Section 7(a)(1) Conservation Plan for three species in the Lower Mississippi River as part of the Mississippi River and Tributaries Channel Improvement Program (see attached fact sheet). The USACE and Service believe this model can and should be replicated across the Nation.

By this memorandum, you are empowered and encouraged to work with your USACE counterparts to use creative solutions suitable to your Region to implement Section 7(a)(1) Major General John Peabody, Deputy Commanding General for Civil and Emergency Operations, USACE, recently transmitted a similar memorandum to USACE Divisional Leadership (attached).

For questions or comments regarding improving the effectiveness of the ESA through implementing Section 7(a)(1) please contact Mr. Craig Aubrey, our Ecological Services Division Chief for Environmental Review at 703-358-2442.







U.S. ARMY CORPS OF ENG 441 G STREET, NW WASHINGTON, DC 28316

CECW-ZA

30 June, 2015

MEMORANDUM FOR COMMANDERS, MAJOR SUBORDINATE COMMANDS, CHIEFS, OPERATIONS DIVISIONS

DEPARTMENT OF THE ARMY

SUBJECT: Improving the Efficiency of Project Operations and Effectiveness of Endangered Species Act Compliance for U.S. Army Corps of Engineers Projects

References

- a. Endangered Species Act Section 7(a) Federal Agency Actions and Consultations. (1) The Secretary shall review other programs administered by him and utilize such programs in furtherance of the purposes of this Act. All other Federal agencies shall, in consultation with and with the assistance of the Secretary, utilize their authorities in furtherance of the purposes of this Act by carrying out programs for the conservation of endangered species need threatened species listed curvariant to Section 4 of this Act.
- b. Endangered Species Act Section 7(a) Federal Agency actions and Consultations.
 (2) Section 7(a)(2) requires Federal agencies to consult with the Service to ensure that actions they fund, authorize, permit, or otherwise carry out will not jeopardize the continued existence of any listed species or adversely modify designated critical habitats.
- c. Fact Sheet, USACE and Service Implement an Innovative Conservation Approach that Yields Success for Wildlife, U.S. Fish and Wildlife Service, September 2014.
- d. Mernorandum for all Counsel, HO, Divisions, Districts, Centers, Labs & FOA offices, subject: ESA Guidance, dated 11 June 2013.
- Memorandum for See Distribution, subject: Reissuance of the U.S. Army Corps of Engineers (Corps) Environmental Operating Principles, dated 7 August 2012.
- 2. Purpose. The purpose of this directive is to increase the environmental value of how the U.S. Army Cops of Engineers (USACE) operates existing Civil Works projects by conducting a holistic review of Endangered Species Act (ESA) Section 7(a)(1) and (2). Designing projects in ways that are compatible with the conservation needs of listed species and their ecosystems can be one of the most effective methods of ensuring an efficient Section 7 consultation process, as well as species' recovery.

throughout the Nation, other in a complex and inter-mixed natural and built environment that includes the potential to affect species listed as threatened or endangered under the ESA or to affect such species' habitats. The purposes of the ESA are to provide a means for conserving the ecosystems upon which endangered and threatened species depend by









History

- 2016: Start with the end result –a petition to delist the Interior Least Tern appears imminent
 - ▶ If successful, removes ESA protection
 - ► Eliminates Section 7(a)(2) responsibilities and associated costs of compliance
 - ► Safeguards remain in place through ESA Section 7(a)(1) and post-listing monitoring plan
 - ► ILT would still receive federal protection (MBTA)





Interior Least Tern - An Action Plan for Delisting

- Delisting the Interior Least Tern
 - ✓ Complete testing of TernPOP model and provide to USFWS
 - ✓ Complete 7(a)(1) Plans for Mississippi Valley, Southwestern, and Great Lakes/Ohio River Divisions
 - ✓ Publish monitoring plan in peer-reviewed literature
 - **USFWS** proposes delisting rule in Federal Register
 - **USFWS** receives comments from federal agencies, species experts, etc.
 - Final Rule





Delisting a Species

Section 4 of the Endangered Species Act

Threatened Wildlife and Plants.

he threats have been reduced and the

devements; we assess the existing threats; and, we seek advice from species experts in and outside of the

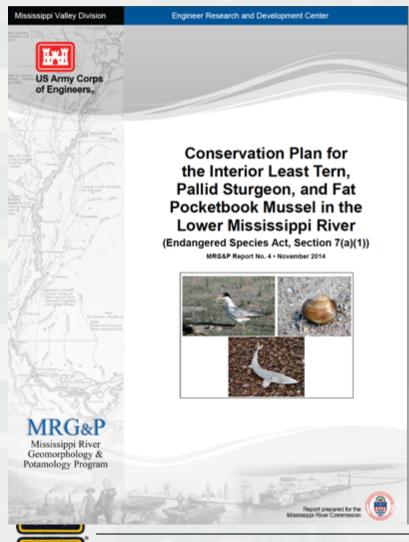
- curtaliment of species' habitat or
- Is species subject to overutilization
- regulatory mechanisms in place outside the ESA (taking into account the efforts by the States and other







MS River Habitat Conservation Plan



- Proactive and innovative
- Creates "buy-in" from multiple agencies and organizations
- Addresses multiple species
- Conserves habitat in perpetuity for listed species
- Provides template for others to follow
- Long-term cost-savings to USACE
- Supports USFWS 5-Year Status Reviews for listed species





Southern Plains Rivers Conservation Plan

U.S. Army Corps of Engineers Southwestern Division

DRAFT Conservation Plan for the Interior Least Tern in the Arkansas, Canadian, and Red River Basins (Endangered Species Act, Section 7(a)(1))

27 September 2016





- Proactive and innovative
- Commits the Corps to long-term management and monitoring within authorities and available budgets
- Supports USFWS 5-Year Status Reviews for listed species





DoD/Army Investigations

US Army Corps of Engineers, Engineer Research and Development Center



Evaluation of 757 Species Under U.S. Endangered Species Act Review on U.S. Department of Defense Lands and their Potential Impact on Army Training

Jinelle H. Sperry, Wade A. Wall, and Matthew G. Hohmann

December 203



Approved for public release; distribution is unlimited

- Candidate Conservation Agreements have proven to be successful for many species.
- Development of conservation agreements was among the most important predictors of USFWS listings
- Proactive management and conservation of species proposed for listing could reduce the likelihood of their listing.
- If a conservation agreement was in place, species were listed 53% of the time; the absence of a conservation agreement increased the probability of being listed to 80%.





Opportunities for USACE/Military Services Cooperative 7(a)(1) Partnerships?



Southwestern Willow Flycatcher









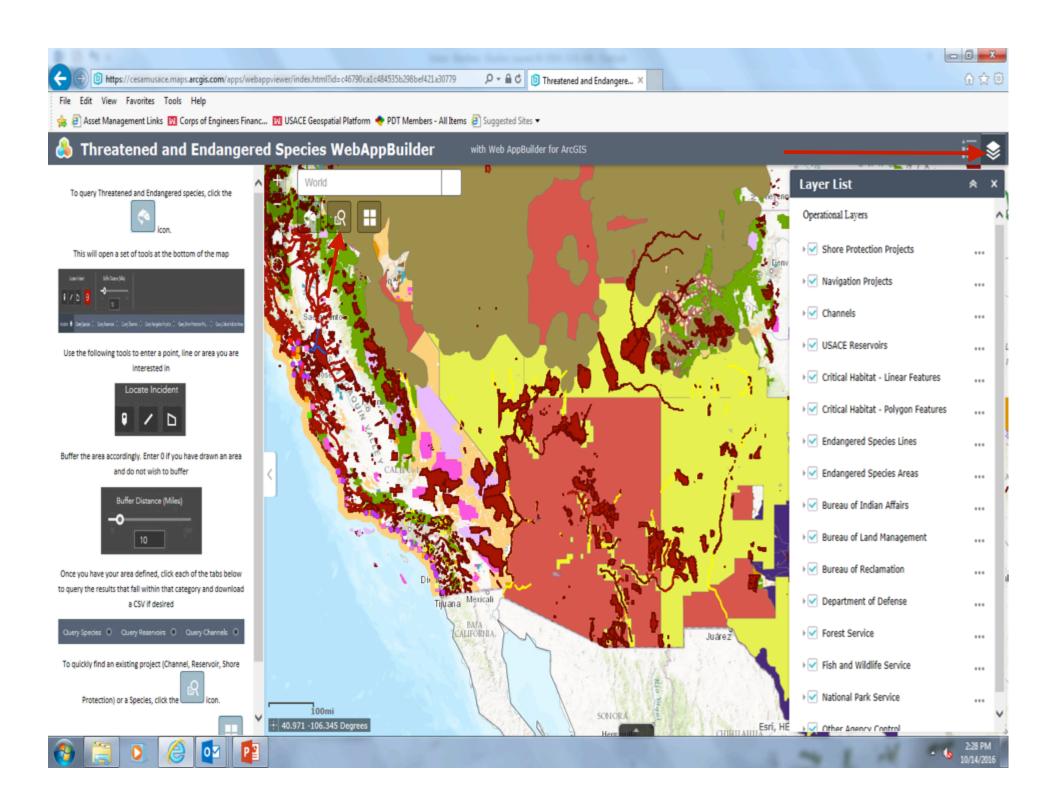


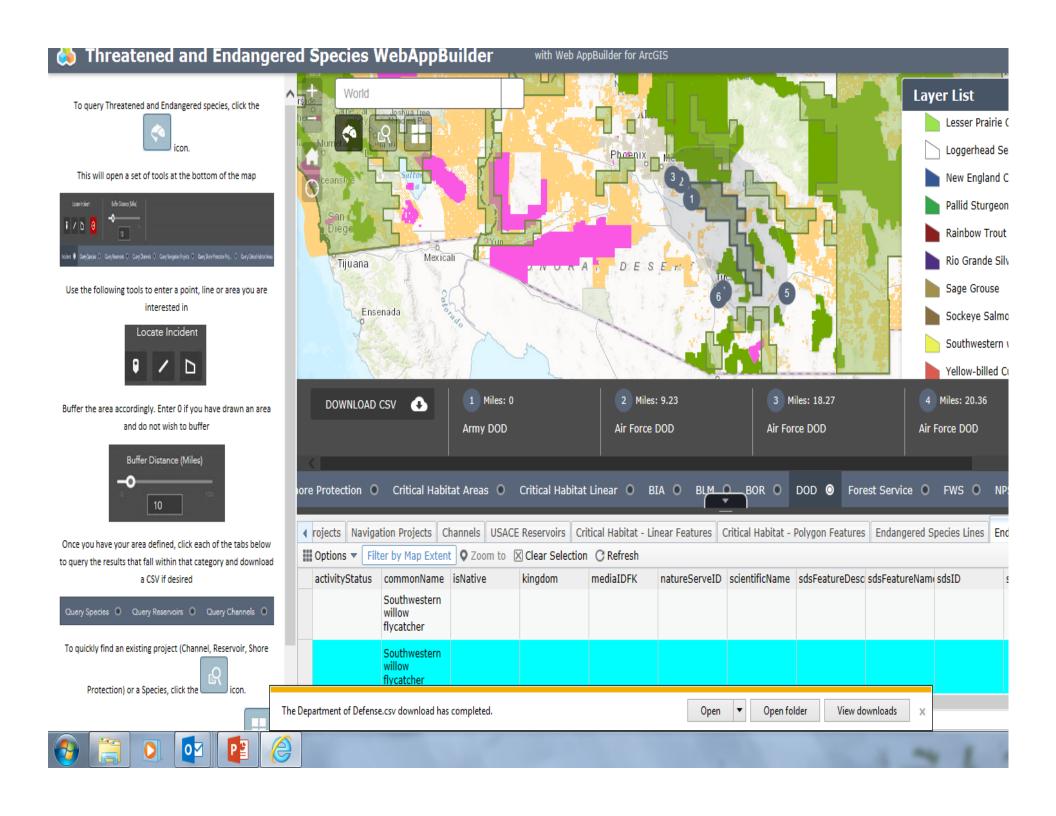


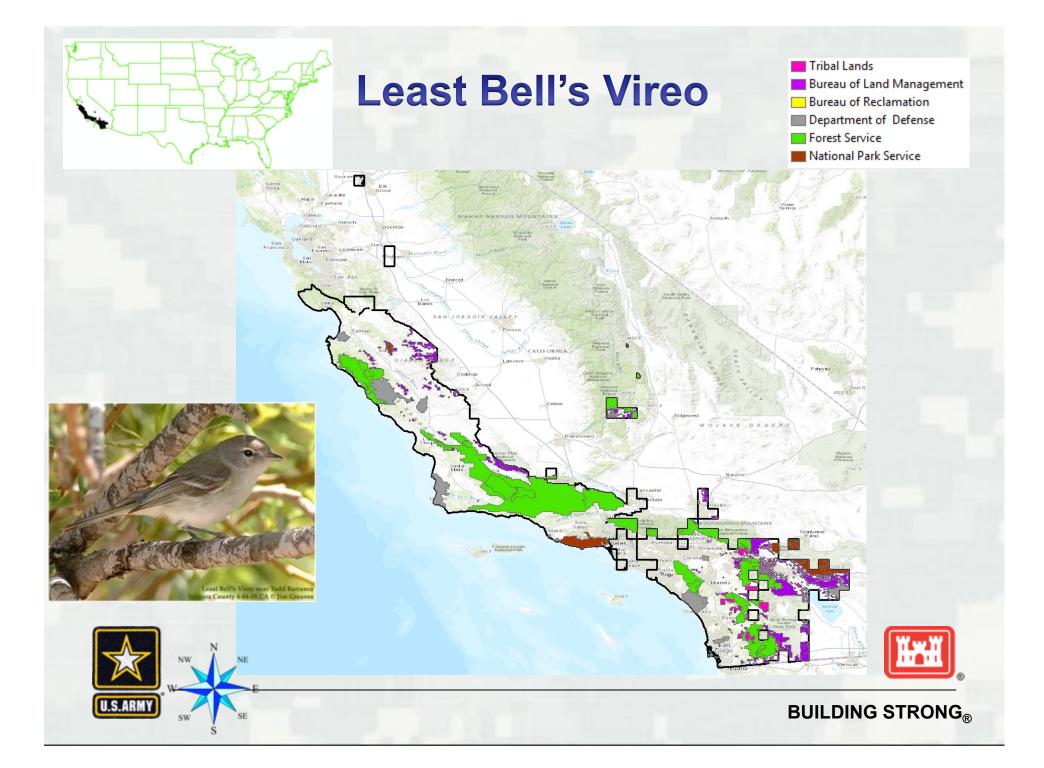


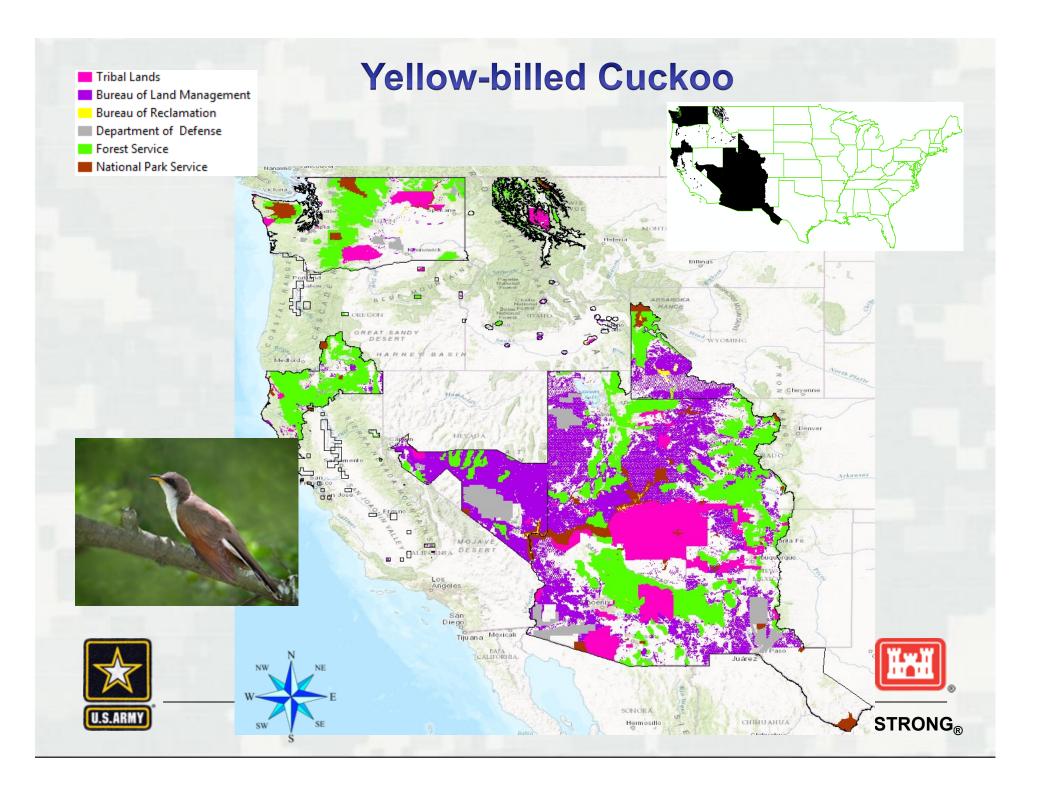
Least Bell's Vireo











Partnering Opportunities Outside of USACE



WRP MISSION

WRP provides a proactive and collaborative framework for senior-policy level Federal, State and Tribal leadership to identify common goals and emerging issues in the states of Arizona, California, Nevada, New Mexico and Utah and to develop solutions that support WRP Partners and protect natural resources, while promoting sustainability, homeland security and military readiness.









Working Lands for Wildlife Conservation Beyond Boundaries WLFW

Working Lands for Wildlife is a partnership between NRCS and the U.S. Fish and Wildlife Service (FWS) to use agency technical expertise combined with \$33 million in financial assistance from the Wildlife Habitat Incentive Program to combat the decline of seven specific wildlife species whose decline can be reversed and will benefit other species with similar habitat needs.

Collaborative Wildlife Protection and Recovery Initiative

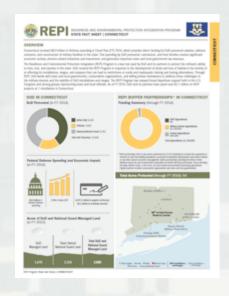
UNITED STATES DEPARTMENT OF DEFENSE

SUSTAINABLE RANGES INITIATIVE * * *















7(a)(1) Partnership Workshop – A New Approach to Endangered Species Conservation

What: Two-day workshop at Marine Corps Base Camp Pendleton

When: 6-7 Dec 2017

Objective: Discuss opportunities to create better conservation outcomes with lower costs, fewer conflicts, and improved mission capabilities.











Questions/Comments?





