

## Webinar 5 Materials

### **Service Area & Credit Determination: Balancing Ecological & Economic Factors**

Presented live on **January 13, 2021**, this webinar discusses the roles and responsibilities of bank sponsors and long-term stewards in developing and implementing management plans and the stewardship funding mechanism(s) needed to ensure continued mitigation compliance. Topics include cost analysis of long-term management practices, adaptive management, and key needs of the third-party land steward to adequately fund management activities in perpetuity.

It is recommended that participants view [Webinar 1: The Market & Regulatory Drivers for Conservation Banking](#) prior to viewing this webinar.

#### **Presenters**

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*Deblyn Mead, Bureau of Land Management ([dMead@blm.gov](mailto:dMead@blm.gov))*

#### **Webinar Materials:**

- Speaker Bios ([PDF](#))

#### **Service Area Determination Presentations:**

- Mattson: USACE Approach ([PDF](#))
- Herman: USFWS Approach ([PDF](#))

#### **Credit Determination Presentations:**

- Mead: Overview ([PDF](#))
- DeYoung: Westervelt Case Studies ([PDF](#))
- Ehinger: NMFS Case Studies ([PDF](#))
- Chiavacci: USGS Quantification Tools ([PDF](#))

### **Service Area Resources:**

1. Amato, Brumbaugh, DeYoung, et. al. "Service area discussion." National Wetlands Newsletter. Vol. 36 No. 2, pp. 9-17. [\[DOWNLOAD PDF\]](#)
2. Denisoff. Reconciling Watersheds and Ecoregions: What's in a Number? National Wetlands Newsletter 33(1), 2011. [\[DOWNLOAD PDF\]](#)
3. Womble, P. and M. Doyle. The Geography of Trading Ecosystem Services: A Case Study of Wetland and Stream Compensatory Mitigation Markets. Harvard Env. Law Review. 36:229-296 + app. [\[DOWNLOAD PDF\]](#)

### **Credit Determination Resources:**

4. Chiavacci, Scott F. and Emily Pindilli. A Database of Biodiversity and Habitat Quantification Tools Used in Market-Based Conservation. USGS Science and Decisions Center and USDA Office of Environmental Markets Fact Sheet. July 2018. [\[DOWNLOAD PDF\]](#)
5. Chiavacci, Scott F. and Emily Pindilli. Trends in Biodiversity and Habitat Quantification Tools Used for Market-Based Conservation in the United States. Conservation Biology, February 2020. [\[DOWNLOAD PDF\]](#)
6. NOAA Damage Assessment and Restoration Program. Habitat Equivalency Analysis: An Overview, May 2006. [\[DOWNLOAD PDF\]](#)
7. Pindilli, Emily and Frank Casey. Biodiversity and Habitat Markets – Policy, Economic and Ecological Implications of Market-Based Conservation. USGS Circular 1414, 2015. [\[DOWNLOAD PDF\]](#)
8. Willamette Partnership. Measuring Up: Synchronizing Biodiversity Measurement Systems for Markets and Other Incentive Programs. Report to USDA, 2011. [\[DOWNLOAD PDF\]](#)
9. Zambello, Erika, Lydia Olander, Emma Glidden-Lyon, Emily Meza, and Jessica Wilkinson. "Trends in Measuring Biodiversity and Ecosystem Function in Mitigation Quantification Methodologies." NI-WP 19-01. Durham, NC: Duke University, 2018. [\[DOWNLOAD PDF\]](#)

### **Web Resources:**

- NOAA NMFS Puget Sound Nearshore Habitat Conservation Calculator <https://www.fisheries.noaa.gov/west-coast/habitat-conservation/puget-sound-nearshore-habitat-conservation-calculator>
- Nevada Conservation Credit System (sage-grouse) <http://sagebrushco.nv.gov/CCS/ConservationCreditSystem/>

- USACE RIBITS <https://ribits.ops.usace.army.mil/> \*after selecting the banks in RIBITS for the examples in this session, open the “Cyber Repository” to find documents for the crediting metrics
- USGS Database of Biodiversity and Habitat Quantification Tools Used for Market-based Conservation in the United States  
<https://www.sciencebase.gov/catalog/item/5aa94672e4b0b1c392f14b17>
- Willamette Partnership Ecosystem Credit Accounting System  
<http://willamettepartnership.org/market-tools-rules/>