

Supplemental Map Information (User Report)

Project ID: R09Y13P22

Project Title or Area: Utah Scalable

Source Data (type, scale and date): 1 meter resolution National Agricultural Imagery Program (NAIP) Natural Color Imagery (2010)

Collateral Data (include any digital data used as collateral):

2010 National Geographic Society (NGS) 1:24,000 topographic map, United States Geological Survey (USGS) hydrologic data, USGS topographic map

Inventory Method (original mapping, map update, techniques used):

Wetlands were derived from water and river symbols on topographic maps and “Heads up” digitizing was used to update double lined rivers to match 2010 NAIP imagery. This method uses aerial digital imagery on the computer monitor and wetlands are delineated on the screen using ESRI ArcGIS software. Wetlands were identified at 1:24,000 and delineated at 1:8,000. Swamp symbols on white backgrounds were considered emergent wetlands.

Classification (Cowardin wetlands, riparian, uplands, hydrogeomorphic, etc.):

Wetland Definition and Classification

The Service uses the Cowardin *et al.* (1979) definition of a wetland; **Classification of Wetlands and Deepwater Habitats of the United States** (FWS/OBS – 79/31 December 1979). This definition is the Federal standard for classifying and mapping wetlands as determined by the Federal Geographic Data Committee. It is a two-part definition as indicated below:

Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water.

For purposes of this classification wetlands must have one or more of the following three attributes: 1) at least periodically, the land supports predominantly hydrophytes; 2) the substrate is predominantly undrained hydric soil; and 3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.

Links to on-line Classification system information:

<http://www.fws.gov/Wetlands/documents/gNSDI/ClassificationWetlandsDeepwaterHabitatsUS.pdf>

Data Limitations:

Scalable map products may be generated in certain parts of the country as initial or interim information. These interim products may include map information at different scales, classification level(s), or resolution. The goal is to develop maps that can be expanded or upgraded on demand. The production of interim products is at the discretion of the Region with

an approved waiver provided by the Service’s Data Steward for Water Resources and Wetlands. Regional specifications will dictate the procedures used to produce and distribute any interim map information.

Because this product is considered preliminary or interim and is a compilation of existing data and aerial image interpretation rather than an image-based mapping process, it will not comply with FGDC standards. The spatial accuracy goal for scalable products has been established at 40 meters with 90 percent accuracy for ecological classification to the Cowardin class level (excluding Lacustrine systems) for mapping.

Description of wetland habitats:

- **Organize by Cowardin classification type:** A variety of riverine, palustrine and lacustrine wetland systems were identified. See digital data for all examples.
- **Wetland classification codes and corresponding (general) community type(s):**

Mapping Code	Cowardin description	Definition
Lacustrine Features		
L (h)	Lacustrine, unconsolidated bottom	Lakes, reservoirs deeper than 6 meters
Riverine Features		
R2UBH	Riverine, lower perennial, permanently flooded	Permanently flowing, lower perennial rivers
R4SBC	Riverine, intermittent, streambed	Stream
R5UB(Fx)	Riverine, unknown perennial, unconsolidated bottom	Semi-Permanently or permanently flowing riverine channels (excavated by man)
Palustrine Features		
PUB(h)	Palustrine, unconsolidated bottom	Ponds, basins
PEM	Palustrine, emergent	Marsh, prairie, basin, depression, spring/seep, wet meadow
PFO	Palustrine, forested	Temporary and seasonally flooded depressions and floodplains dominated by forested vegetation

Description of other habitats:

- **Riparian** N/A
- **Uplands** N/A

List of wetland plant species with indicator status:

N/A

Regional specialized conventions:

N/A

Other discussion of mapping issues (image quality, water conditions, etc.):

N/A

References:

Data Collection Requirements and Procedures for Mapping Wetland, Deepwater and Related Habitats of the United States

U.S. Fish and Wildlife Service, Division of Habitat and Resource, Conservation Branch of Resource and Mapping Support, Arlington, VA 22203

National Geographic Society Topographic Map

2010 National Geographic Society

http://goto.arcgisonline.com/maps/NGS_Topo_US_2D

U.S. Geological Survey. *Utah* [map]

1:24,000. 7.5 Minute Series. United States Department of the Interior, USGS