

# Appendix: Yellowstone National Park's Wetland Classifications and Acreages

The National Wetlands Inventory identifies wetlands by a coding system that is a series of letters and numbers. These codes are technically referred to as alphanumeric or attributes. For example, Yellowstone Lake is classified as an L1UBH where (L) lacustrine, (1) limnetic, (UB) unconsolidated bottom, and (H) permanently flooded, specifically identify deep lake habitat. Each of these four terms, *i.e.*, lacustrine, limnetic, unconsolidated bottom, and permanently flooded, is identified in the Cowardin *et al.* (1979) wetland classification system. In addition, these terms are identified on every wetland inventory map.

For a more detailed explanation of the NWI map codes, consult the U.S. Fish and Wildlife Service's 1993 publication "NWI Maps Made Easy: A User's Guide to National Wetlands Inventory Maps of the Mountain-Prairie Region."

Wetlands are delineated cartographically on every map as one of three features: (1) polygon, (2) linear, or (3) point. A polygon is a wetland

large enough that a photointerpreter can delineate an entire boundary around the wetland. A linear feature is a wetland so narrow that a single dashed line is used to delineate it. A point is a wetland so small that a single dot delineates it.

For area measurement, polygon wetlands are measured during the digitizing process. Linear and point wetlands are measured on the assumption that linear wetlands average 10 feet wide, and points average 0.1 of an acre.

"Frequency," as used in this appendix, does not identify individual basins, rather it identifies the number of times that a particular wetland classification is used. For example, a single wetland basin may consist of a deep central zone classified as PABF (palustrine, aquatic bed, semipermanently flooded) with a shallower periphery of PEMC (palustrine, emergent, seasonally flooded) and an even shallower periphery of PEMA (palustrine, emergent, temporarily flooded). In this example, there is only one wetland basin, but three wetland classifications and, therefore, three frequencies.



*Pelicans on Yellowstone Lake.*

NPS

# Yellowstone National Park Wetland Acreage Statistics

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<u>Attribute</u>	<u>Feature</u>	<u>Frequency</u>	<u>Acres</u>
<b>LACUSTRINE</b>			
L1ABH	Polygon	2	12.1
L1UBH	Polygon	134	96,015.4
L2ABF	Linear (0.10 miles)	1	0.1
L2ABF	Polygon	4	44.7
L2ABG	Linear (16.13 miles)	95	19.6
L2ABG	Polygon	135	3,927.3
L2ABGb	Polygon	1	25.9
L2ABH	Polygon	1	40.1
L2UBF	Polygon	18	8.5
L2UBG	Linear (113.06 miles)	221	137.0
L2UBG	Polygon	3	551.9
L2UBH	Linear (0.99 miles)	4	1.2
L2USA	Polygon	1	0.5
L2USC	Polygon	<u>14</u>	<u>103.9</u>
<b>Subtotal</b>		<b>634</b>	<b>100,888.2 acres</b>
<b>PALUSTRINE</b>			
PABF	Linear (7.06 miles)	87	8.6
PABF	Point	14	1.4
PABF	Polygon	3,077	2,048.0
PABFh	Polygon	6	4.6
PABG	Polygon	59	330.9
PABGb	Polygon	81	35.3
PABKx	Polygon	12	16.1
PEMA	Linear (7.11 miles)	27	8.6
PEMA	Point	1	0.1
PEMA	Polygon	454	1,559.2
PEMAx	Polygon	1	0.5
PEMB	Linear (3.43 miles)	56	4.2
PEMB	Point	12	1.2
PEMB	Polygon	5,153	20,592.6
PEMBb	Polygon	5	47.3
PEMC	Linear (759.38 miles)	4,304	920.5
PEMC	Point	50	5.0
PEMC	Polygon	15,854	54,347.3
PEMCh	Polygon	2	1.3
PEMCx	Linear (0.49 miles)	6	0.6
PEMF	Linear (4.56 miles)	32	5.5
PEMF	Polygon	109	320.8
PEMH	Linear (3.45 miles)	32	4.2
PEMJ	Linear (1.06 miles)	6	1.3

PEMJ	Point	1	0.1
PEMJ	Polygon	417	3,563.3
PFOA	Linear (27.79 miles)	141	33.7
PFOA	Polygon	2,584	10,953.0
PFOB	Linear (0.12 miles)	1	0.2
PFOB	Polygon	2,111	14,598.0
PFOC	Polygon	7	56.0
PFOJ	Polygon	20	53.1
PMLB	Polygon	1	2.8
PSSA	Linear (5.63 miles)	28	6.8
PSSA	Polygon	53	72.6
PSSB	Linear (0.08 miles)	2	0.1
PSSB	Polygon	99	277.8
PSSBb	Polygon	2	3.0
PSSC	Linear (1.54 miles)	12	1.7
PSSC	Polygon	616	5,303.7
PSSCx	Linear (0.22 miles)	1	0.3
PUBFx	Polygon	2	0.4
PUBH	Point	2	0.2
PUBH	Polygon	298	88.1
PUBKx	Polygon	1	2.7
PUSA	Polygon	30	31.8
PUSC	Point	3	0.3
PUSC	Polygon	85	63.8
PUSCx	Polygon	1	0.1
PUSJ	Linear (0.50 miles)	5	0.6
PUSJ	Polygon	<u>1,096</u>	<u>3,149.0</u>
<b>Subtotal</b>		<b>37,059</b>	<b>118,528.3 acres</b>

**RIVERINE**

R2UBH	Linear (2.53 miles)	33	3.1
R2UBH	Polygon	5	6.9
R2USC	Linear (0.25 miles)	2	0.3
R2USC	Polygon	5	25.0
R3ABH	Linear (0.87 miles)	8	1.1
R3ABH	Polygon	20	101.3
R3RBH	Linear (4.27 miles)	27	5.2
R3RBH	Polygon	10	157.8
R3UBF	Linear (505.89 miles)	1,915	613.2
R3UBF	Polygon	4	10.0
R3UBG	Linear (143.98 miles)	630	174.5
R3UBH	Linear (972.61 miles)	9,464	1,178.8
R3UBH	Polygon	93	3,955.5
R3UBHx	Linear (0.19 miles)	1	0.2
R3USA	Linear (2.13 miles)	18	2.6
R3USA	Polygon	452	564.1
R3USC	Linear (10.69 miles)	124	13.0
R3USC	Polygon	647	1,468.0
R4SBA	Linear (182.97 miles)	212	221.8
R4SBC	Linear (635.83 miles)	1,240	770.7
R4SBC	Polygon	6	75.8
R4SBCx	Linear (0.41 miles)	4	0.5
R4SBF	Linear (0.42 miles)	<u>5</u>	<u>0.5</u>
<b>Subtotal</b>		<b>14,925</b>	<b>9,349.9 acres</b>

**TOTAL****52,618****228,766.39 acres**