

Appendix 15b. List of Targets with Goals by Section

Organized by systems, communities, and species. Only targets with sectional goals are listed here; for complete target list, see Appendix 5.

Section: Georgia Basin

Terrestrial Ecological Systems

Codes listed at end of report:

Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
	Coastal spits, dunes, and strand	26600	Occurrence Score	23550	18750	<input checked="" type="checkbox"/>	18750	T
	Coniferous forested wetlands	8000	Occurrence Score	7000	3750	<input checked="" type="checkbox"/>	3750	T
	Depressional wetland broadleaf forests	21750	Occurrence Score	15750	10500	<input checked="" type="checkbox"/>	10500	T
	Depressional wetland shrublands	69250	Occurrence Score	21750	7500	<input checked="" type="checkbox"/>	7500	T
	Douglas fir - western hemlock - western redcedar forests	426294	Hectares	161007	160828	<input checked="" type="checkbox"/>	160828	T
	Douglas fir - western hemlock - western redcedar forests (ranked occurrences)	53250	Occurrence Score	47600	7500	<input checked="" type="checkbox"/>	7500	T
	Dry evergreen forests and woodlands	47509	Hectares	28845	28848	<input checked="" type="checkbox"/>	28848	T
	Dry evergreen forests and woodlands (ranked occurrences)	121400	Occurrence Score	108700	10500	<input checked="" type="checkbox"/>	10500	T
	Freshwater aquatic beds	34750	Occurrence Score	18250	3750	<input checked="" type="checkbox"/>	3750	T
	Freshwater marshes	34500	Occurrence Score	19000	6000	<input checked="" type="checkbox"/>	6000	T
	Herbaceous balds and bluffs	139150	Occurrence Score	120950	30000	<input checked="" type="checkbox"/>	30000	T
	Intertidal salt marshes	23550	Occurrence Score	22000	15000	<input checked="" type="checkbox"/>	15000	T
	Oak woodlands (ranked occurrences)	72650	Occurrence Score	64400	18750	<input checked="" type="checkbox"/>	18750	T
	Riparian forests and shrublands	6366	Hectares	4311	4310	<input checked="" type="checkbox"/>	4310	T
	Riparian forests and shrublands (ranked occurrences)	3250	Occurrence Score	3000	10500	<input type="checkbox"/>	3250	T
	Sphagnum bogs and fens	36900	Occurrence Score	19150	13500	<input checked="" type="checkbox"/>	13500	T
	Tidally-influenced freshwater wetlands	3000	Occurrence Score	3000	ha	<input type="checkbox"/>	3000	T
	Vernal pools	12500	Occurrence Score	12500	9750	<input checked="" type="checkbox"/>	9750	T

Section: Georgia Basin

<u>Species</u>		Codes listed at end of report:						
Birds								
Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
Species								
Birds								
<i>Haliaeetus leucocephalus</i>	Bald eagle wintering/feeding areas		Occurrence Score	2500	ud	<input type="checkbox"/>	2500	T
<i>Poocetes gramineus affinis</i>	Oregon vesper sparrow	550	Occurrence Score	550	ud	<input type="checkbox"/>	50	T
Herpetofauna								
<i>Rana aurora aurora</i>	Northern red-legged frog	2000	Occurrence Score	2000	ud	<input type="checkbox"/>	2000	T
<i>Sceloporus occidentalis</i>	Western fence lizard habitat	273	Hectares	269	ud	<input type="checkbox"/>	272	T

**Section: Lower Columbia
Terrestrial**

Terrestrial Ecological Systems

	Autumnal freshwater mudflats	5000	Occurrence Score	5000	7500	<input type="checkbox"/>	5000	T
	Coniferous forested wetlands	1000	Occurrence Score	1000	1500	<input type="checkbox"/>	1000	T
	Depressional wetland broadleaf forests	22300	Occurrence Score	11300	10500	<input checked="" type="checkbox"/>	10500	T
	Depressional wetland shrublands	78250	Occurrence Score	38500	7500	<input checked="" type="checkbox"/>	7500	T
	Douglas fir - western hemlock - western redcedar forests	228625	Hectares	130873	105648	<input checked="" type="checkbox"/>	105648	T
	Douglas fir - western hemlock - western redcedar forests (ranked occurrences)	5800	Occurrence Score	5600	7500	<input type="checkbox"/>	5800	T
	Dry evergreen forests and woodlands	35181	Hectares	26613	26630	<input type="checkbox"/>	26630	T
	Dry evergreen forests and woodlands (ranked occurrences)	600	Occurrence Score	600	10500	<input type="checkbox"/>	600	T
	Freshwater aquatic beds	11500	Occurrence Score	6750	3750	<input checked="" type="checkbox"/>	3750	T
	Freshwater marshes	1500	Occurrence Score	1500	6000	<input type="checkbox"/>	1500	T
	Herbaceous balds and bluffs	1100	Occurrence Score	1000	6000	<input type="checkbox"/>	1100	T
	Oak woodlands (ranked occurrences)	6800	Occurrence Score	6550	18750	<input type="checkbox"/>	6800	T
	Riparian forests and shrublands	24148	Hectares	15098	15102	<input type="checkbox"/>	15102	T
	Riparian forests and shrublands (ranked occurrences)	10700	Occurrence Score	10600	10500	<input checked="" type="checkbox"/>	10500	T
	Sphagnum bogs and fens	1000	Occurrence Score	1000	1500	<input type="checkbox"/>	1000	T

Section: Lower Columbia

Terrestrial Ecological Systems

Codes listed at end of report:

Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
	Tidally-influenced freshwater wetlands	3500	Occurrence Score	3000	ha	<input type="checkbox"/>	3500	T
	Upland prairies and savannas		Occurrence Score		ha	<input type="checkbox"/>		T
	Wet prairies	500	Occurrence Score	500	ha	<input type="checkbox"/>	500	T
Species								
Birds								
<i>Haliaeetus leucocephalus</i>	Bald eagle wintering/feeding areas		Occurrence Score	2000	ud	<input type="checkbox"/>	2000	T
<i>Poocetes gramineus affinis</i>	Oregon vesper sparrow	5000	Occurrence Score	4500	ud	<input type="checkbox"/>	1500	T
<i>Sialia mexicana</i>	Western bluebird habitat	732	Hectares	732	ud	<input type="checkbox"/>	730	T
<i>Sturnella neglecta</i>	Western meadowlark		Occurrence Score	12079	ud	<input type="checkbox"/>	12000	T
Herpetofauna								
<i>Chrysemys picta</i>	Painted turtle	16100	Occurrence Score	16050	ud	<input type="checkbox"/>	16100	T
<i>Contia tenuis</i>	Sharptail snake	134	Occurrence Score	134	130	<input checked="" type="checkbox"/>	130	T
<i>Rana aurora aurora</i>	Northern red-legged frog	6550	Occurrence Score	6550	ud	<input type="checkbox"/>	7050	T

Section: Puget Trough
Terrestrial

Terrestrial Ecological Systems

	Coastal spits, dunes, and strand	3550	Occurrence Score	3050	3000	<input checked="" type="checkbox"/>	3000	T
	Coniferous forested wetlands	6050	Occurrence Score	4550	4500	<input checked="" type="checkbox"/>	3750	T
	Depressional wetland broadleaf forests	32800	Occurrence Score	10800	10500	<input checked="" type="checkbox"/>	10500	T
	Depressional wetland shrublands	20050	Occurrence Score	20050	7500	<input checked="" type="checkbox"/>	7500	T
	Douglas fir - western hemlock - western redcedar forests	729551	Hectares	369926	369925	<input checked="" type="checkbox"/>	369925	T
	Douglas fir - western hemlock - western redcedar forests (ranked occurrences)	12400	Occurrence Score	11650	7500	<input checked="" type="checkbox"/>	7500	T
	Dry evergreen forests and woodlands	61709	Hectares	42122	24435	<input checked="" type="checkbox"/>	24435	T
	Dry evergreen forests and woodlands (ranked occurrences)	6600	Occurrence Score	6600	10500	<input type="checkbox"/>	6650	T

Section: Puget Trough

Terrestrial Ecological Systems

Codes listed at end of report:

Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
	Freshwater aquatic beds	34850	Occurrence Score	24600	3750	<input checked="" type="checkbox"/>	3750	T
	Freshwater marshes	40850	Occurrence Score	24350	6000	<input checked="" type="checkbox"/>	6000	T
	Herbaceous balds and bluffs	2500	Occurrence Score	2500	5250	<input type="checkbox"/>	2500	T
	Intertidal salt marshes	17750	Occurrence Score	16250	15000	<input checked="" type="checkbox"/>	15000	T
	Oak woodlands (ranked occurrences)	8550	Occurrence Score	8050	8550	<input type="checkbox"/>	8550	T
	Riparian forests and shrublands	40402	Hectares	35154	35153	<input checked="" type="checkbox"/>	35153	T
	Riparian forests and shrublands (ranked occurrences)	15550	Occurrence Score	14050	10500	<input checked="" type="checkbox"/>	10500	T
	Sphagnum bogs and fens	60350	Occurrence Score	52300	13500	<input checked="" type="checkbox"/>	13500	T
	Tidally-influenced freshwater wetlands	9800	Occurrence Score	8750	ha	<input type="checkbox"/>	9750	T
	Upland prairies and savannas	10100	Occurrence Score	10050	ha	<input type="checkbox"/>	10000	T
Species								
Birds								
<i>Haliaeetus leucocephalus</i>	Bald eagle wintering/feeding areas		Occurrence Score	13600	ud	<input type="checkbox"/>	9000	T
<i>Poecetes gramineus affinis</i>	Oregon vesper sparrow	4150	Occurrence Score	4150	ud	<input type="checkbox"/>	4150	T
Herpetofauna								
<i>Rana aurora aurora</i>	Northern red-legged frog	28500	Occurrence Score	21500	ud	<input type="checkbox"/>	9000	T
<i>Sceloporus occidentalis</i>	Western fence lizard habitat	1910	Hectares	1469	ud	<input type="checkbox"/>	1909	T

Section: Willamette Valley

Terrestrial

Terrestrial Ecological Systems

	Autumnal freshwater mudflats	1050	Occurrence Score	1050	2250	<input type="checkbox"/>	1050	T
	Depressional wetland broadleaf forests	135550	Occurrence Score	58300	10500	<input checked="" type="checkbox"/>	10500	T
	Depressional wetland shrublands	34250	Occurrence Score	29250	7500	<input checked="" type="checkbox"/>	7500	T
	Douglas fir - western hemlock - western redcedar forests	34181	Hectares	13673	11737	<input checked="" type="checkbox"/>	11737	T

Section: Willamette Valley

Terrestrial Ecological Systems

Codes listed at end of report:

Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
	Douglas fir - western hemlock - western redcedar forests (ranked occurrences)	2550	Occurrence Score	2000	7500	<input type="checkbox"/>	2550	T
	Dry evergreen forests and woodlands	223527	Hectares	113196	48018	<input checked="" type="checkbox"/>	48018	T
	Dry evergreen forests and woodlands (ranked occurrences)	17150	Occurrence Score	16550	10500	<input checked="" type="checkbox"/>	10500	T
	Freshwater aquatic beds	3500	Occurrence Score	2250	3750	<input type="checkbox"/>	3500	T
	Freshwater marshes	1000	Occurrence Score	1000	6000	<input type="checkbox"/>	1000	T
	Herbaceous balds and bluffs	11200	Occurrence Score	11200	15000	<input type="checkbox"/>	11200	T
	Oak woodlands	22916	Hectares	19566	41688	<input type="checkbox"/>	19565	T
	Oak woodlands (ranked occurrences)	20250	Occurrence Score	20100	20000	<input checked="" type="checkbox"/>	20000	T
	Riparian forests and shrublands	43330	Hectares	23082	22336	<input checked="" type="checkbox"/>	22336	T
	Riparian forests and shrublands (ranked occurrences)	28650	Occurrence Score	26350	10500	<input checked="" type="checkbox"/>	10500	T
	Sphagnum bogs and fens	1000	Occurrence Score	1000	1500	<input type="checkbox"/>	1000	T
	Upland prairies and savannas	29500	Occurrence Score	28400	ha	<input type="checkbox"/>	29000	T
	Vernal pools	1000	Occurrence Score	1000	9000	<input type="checkbox"/>	1000	T
	Wet prairies	12750	Occurrence Score	12700	ha	<input type="checkbox"/>	12500	T

Species

Birds

<i>Haliaeetus leucocephalus</i>	Bald eagle wintering/feeding areas		Occurrence Score	1500	ud	<input type="checkbox"/>	1550	T
<i>Melanerpes lewis</i>	Lewis's woodpecker	3000	Occurrence Score	3000	ud	<input type="checkbox"/>	3000	T
<i>Poocetes gramineus affinis</i>	Oregon vesper sparrow	31500	Occurrence Score	31500	ud	<input type="checkbox"/>	15500	T
<i>Sturnella neglecta</i>	Western meadowlark		Occurrence Score	7743	ud	<input type="checkbox"/>	7000	T

Herpetofauna

<i>Chrysemys picta</i>	Painted turtle	6750	Occurrence Score	6650	ud	<input type="checkbox"/>	6750	T
<i>Rana aurora aurora</i>	Northern red-legged frog	20500	Occurrence Score	15000	ud	<input type="checkbox"/>	9000	T

Section: Canada

Nearshore Marine

Species

Section: Canada

<u>Species</u>		Codes listed at end of report:						
Birds								
Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
Birds								
	Dabbling ducks	106500	Occurrence Score	77000	ud	<input type="checkbox"/>	63900	NM
	Diving ducks/bay ducks	141500	Occurrence Score	86000	ud	<input type="checkbox"/>	84900	NM
<i>Aechmophorus occidentalis</i>	Western grebe	101000	Occurrence Score (*)	70000	ud	<input type="checkbox"/>	60600	NM
<i>Brachyramphus marmoratus</i>	Marbled murrelet - marine	136000	Occurrence Score (*)	87500	ud	<input type="checkbox"/>	81600	NM
<i>Branta bernicla</i>	Brant	111000	Occurrence Score	70000	ud	<input type="checkbox"/>	66600	NM
<i>Gavia spp</i>	Loons	105000	Occurrence Score (*)	75000	ud	<input type="checkbox"/>	63000	NM
<i>Haematopus bachmani, Arenaria melanocephala</i>	Shorebirds-mud/aggregated	90500	Occurrence Score	55500	ud	<input type="checkbox"/>	54300	NM
<i>Histrionicus histrionicus</i>	Harlequin duck	101500	Occurrence Score (*)	67500	ud	<input type="checkbox"/>	60900	NM
<i>Melanitta spp</i>	Scoters	138000	Occurrence Score (*)	86000	ud	<input type="checkbox"/>	82800	NM
<i>Podiceps grisegena</i>	Red-necked grebe	103500	Occurrence Score	68000	ud	<input type="checkbox"/>	62100	NM
Fishes								
<i>Clupea pallasii</i>	Pacific herring spawning	443	Kilometers	277	ud	<input type="checkbox"/>	265	NM

Section: US

Nearshore Marine

Species

Birds

	Dabbling ducks	323250	Occurrence Score	118700	ud	<input type="checkbox"/>	96975	NM
	Diving ducks/bay ducks	173950	Occurrence Score	62750	ud	<input type="checkbox"/>	52185	NM
<i>Aechmophorus occidentalis</i>	Western grebe	313050	Occurrence Score (*)	90500	ud	<input type="checkbox"/>	93915	NM
<i>Brachyramphus marmoratus</i>	Marbled murrelet - marine	161950	Occurrence Score (*)	49550	ud	<input type="checkbox"/>	48585	NM
<i>Branta bernicla</i>	Brant	60550	Occurrence Score	34200	ud	<input type="checkbox"/>	18165	NM
<i>Gavia spp</i>	Loons	157200	Occurrence Score (*)	49400	ud	<input type="checkbox"/>	47160	NM
<i>Haematopus bachmani, Arenaria melanocephala</i>	Shorebirds-mud/aggregated	97100	Occurrence Score	67100	ud	<input type="checkbox"/>	58260	NM
<i>Histrionicus histrionicus</i>	Harlequin duck	98500	Occurrence Score (*)	35500	ud	<input type="checkbox"/>	29550	NM
<i>Melanitta spp</i>	Scoters	727650	Occurrence Score (*)	229200	ud	<input type="checkbox"/>	218295	NM
<i>Podiceps grisegena</i>	Red-necked grebe	176500	Occurrence Score	54200	ud	<input type="checkbox"/>	52950	NM

Section: US

Species

Codes listed at end of report:

Fishes

Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model
Fishes								
<i>Clupea pallasii</i>	Pacific herring spawning	13470	Kilometers	8443	ud	<input type="checkbox"/>	8082	NM

Section: US

<u>Species</u>		<i>Codes listed at end of report:</i>						
Fishes								
Scientific Name	Common Name	Amount Available	Units ¹	Amount Captured	Goal ²	Met?	SITES ³ Goal	SITES ⁴ Model

Legend

1 Units:

Hectares: represent area measurements
 Kilometers: represent linear (shoreline) measurements
 Occurrence Score: represent counts of ranked occurrences:

- 1000 points - each 'A' or 'B' ranked occurrence
- 500 points - each 'C' ranked occurrence
- 50 points - each 'D' ranked occurrence
- 500 points - each 'K' ranked occurrence
- 250 points - each 'K' ranked modeled system occurrence

Occurrence Score (*) = calculated from point densities (nearshore marine targets)

2 Goals:

ha = "hectares": Goal for target was set in hectares, see notes.
 na = "not applicable": no data was available to set the SITES Goal.
 ud = "undefined": not enough information was available to set a Goal.

Terrestrial Ecological Systems Goals marked "ha"

Goals for these targets are not listed because the goal was set in units other than those shown in table.

Tidally-influenced freshwater wetlands: because of decline and incomplete historical documentation of extent, SITES goal was 'all available occurrences'.

Upland prairies and savannas: Goal was developed in hectares. Occurrence data measured in hectares was not available to develop a hectare-based SITES goal.
 Lower Columbia section: 9561 ha; Puget Trough section: 18,900 ha; Willamette Valley section: 148,993 ha.

Wet prairie: Goal was developed in hectares. Occurrence data measured in hectares was not available to develop a hectare-based SITES goal. Lower Columbia section: 7635 ha; Willamette Valley section: 36,085 ha.

Freshwater Ecological Systems Goals

Goals and measures were based on Ecological Drainage Units (EDUs), not ecoregional boundaries.

3 Goal Calculations:

For Terrestrial Targets goals calculated by Occurrence Score:

Amount Available and Amount Captured occurrence scores were calculated using A, B, C, D, and K ranks.

SITES Goal = Amount Available (using A, B, C, D, and K ranks) for all terrestrial species and community targets, and for all terrestrial ecological systems targets for which Amount Available >= Ecological Goal.

All SITES Goals were met through the modeling process.

For terrestrial ecological systems targets for which Amount Available < Ecological Goal, SITES Goal was calculated using only A, B, C, and K ranked occurrences (not including D-ranked occurrences). In these cases, the goal ultimately applied was to capture all available occurrences, so that Amount Captured may equal Amount available, thus exceeding the SITES Goal.

For Nearshore Marine targets:

SITES goals were set as percentage of Amount Available.

For Freshwater targets:

SITES goals served to provide representation of targets.

Targets having a Goal, but no Amount Available reflect ecological targets for which no data was available at the time of the assessment.

4 SITES Model:

Each target was considered in one or more analyses conducted using the SITES model.

- T = Terrestrial
- NM = Nearshore Marine
- FW = Freshwater

T,FW = Targets in both Terrestrial and Freshwater assessments. These records show data resulting from the terrestrial assessment only. The target as used in freshwater assessment may have had a different goal and data than the same species target considered in terrestrial assessment. Refer to text for summary of freshwater target data.