Oregon Silverspot Butterfly Recovery Efforts

Presented by Anne Walker
US Fish and Wildlife Service

Oregon silverspot butterfly

Background

- Listed as Federally threatened in 1980
- Critical Habitat was designated in 1980 at Rock Creek-Big Creek area
- Additional populations were located between 1980-1989
- Revised Recovery Plan was finished in 2001, with 6 Conservation Areas

OREGON SILVERSPOT BUTTERFLY LIFE CYCLE

Adult

Reproduction

Eggs

Hatching

Hatched caterpillar

Diapause

Caterpillar

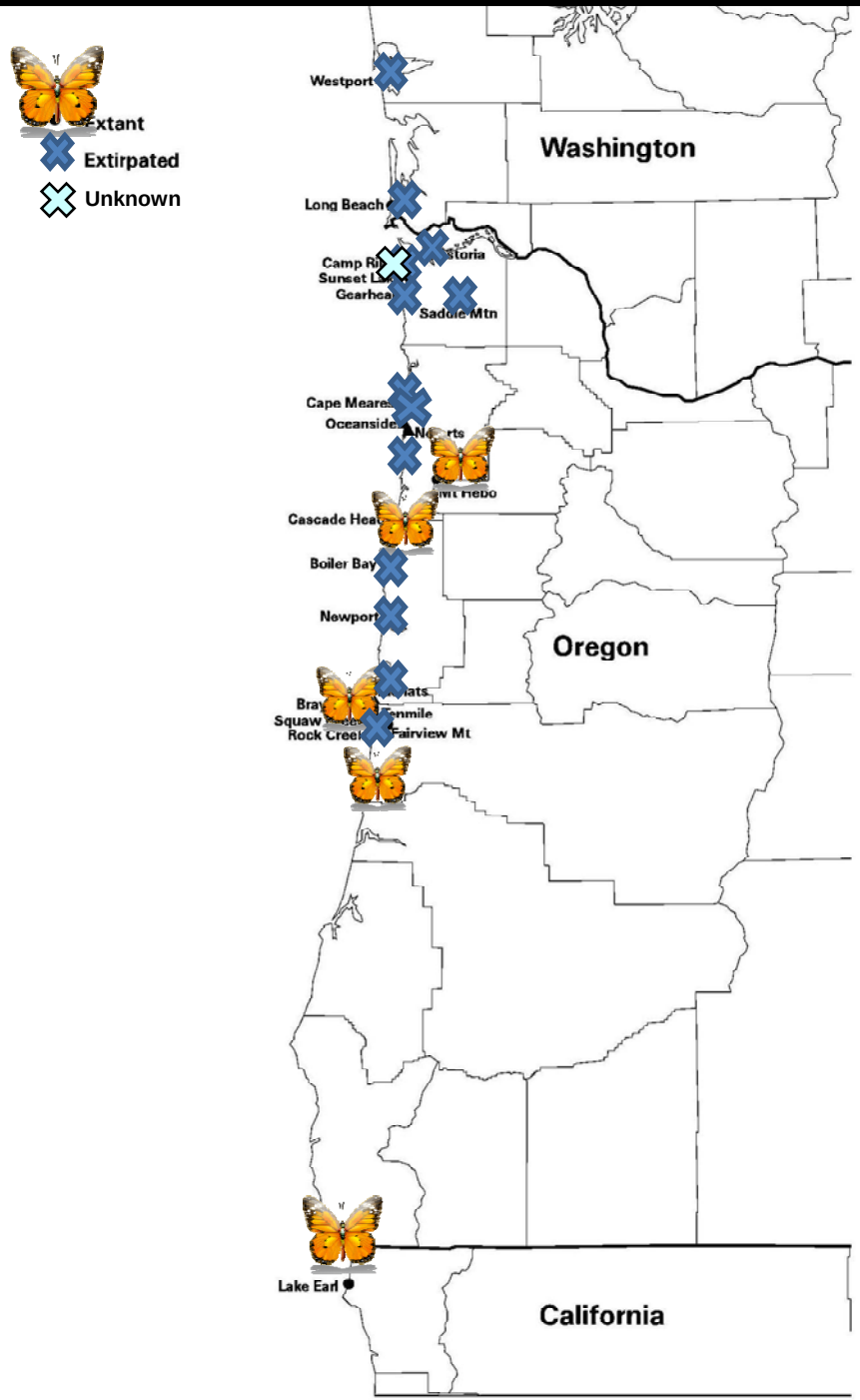
Slow growth rate

Pupation

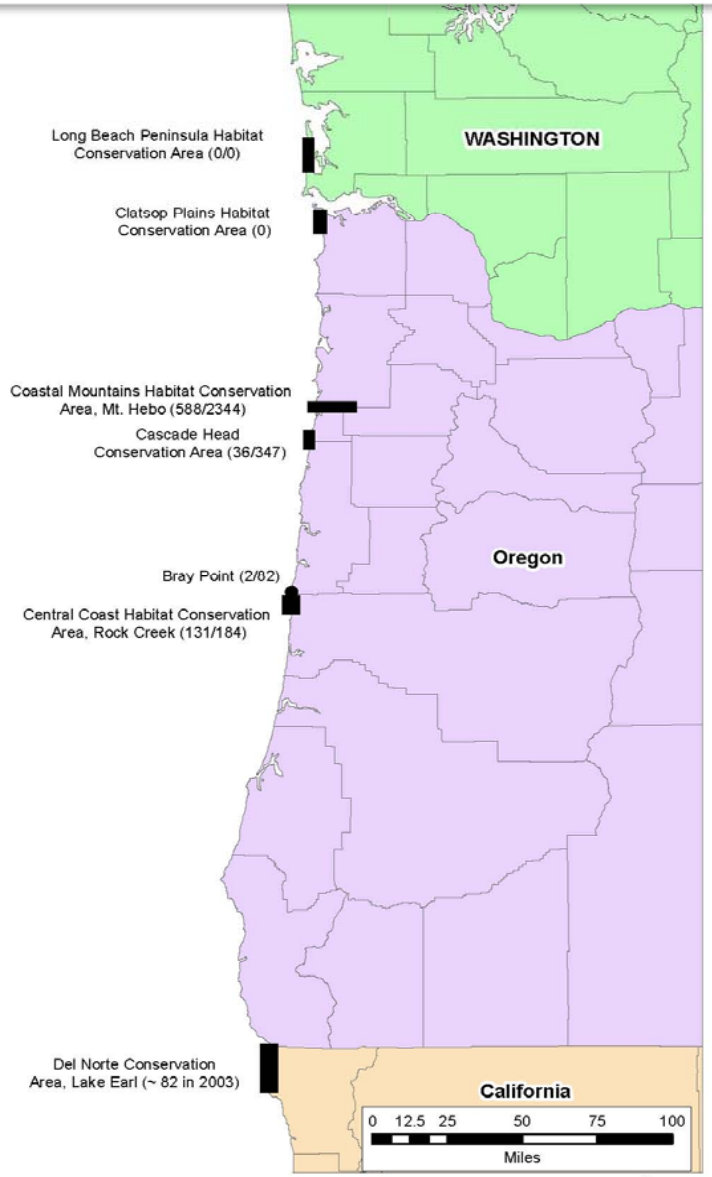
Pupae

Emergence

HISTORICAL DISTRIBUTION



Oregon Silverspot Butterfly Conservation Areas



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March 24, 2005
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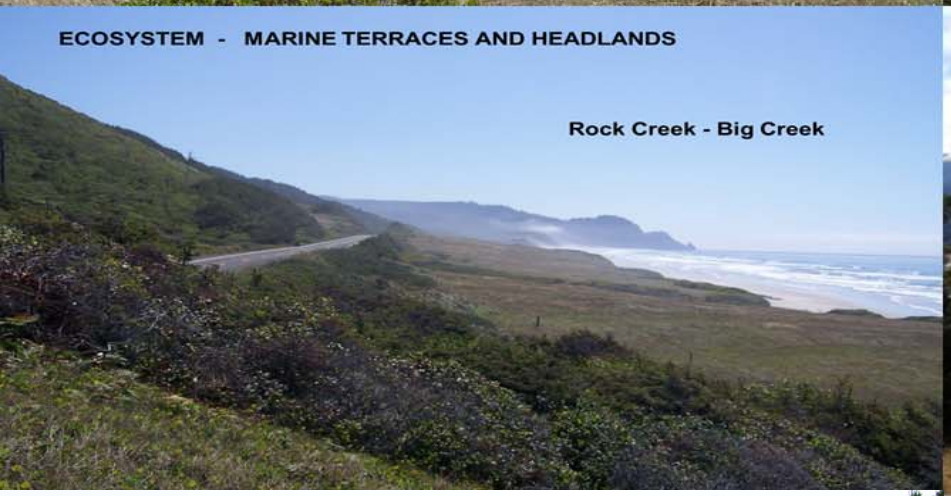
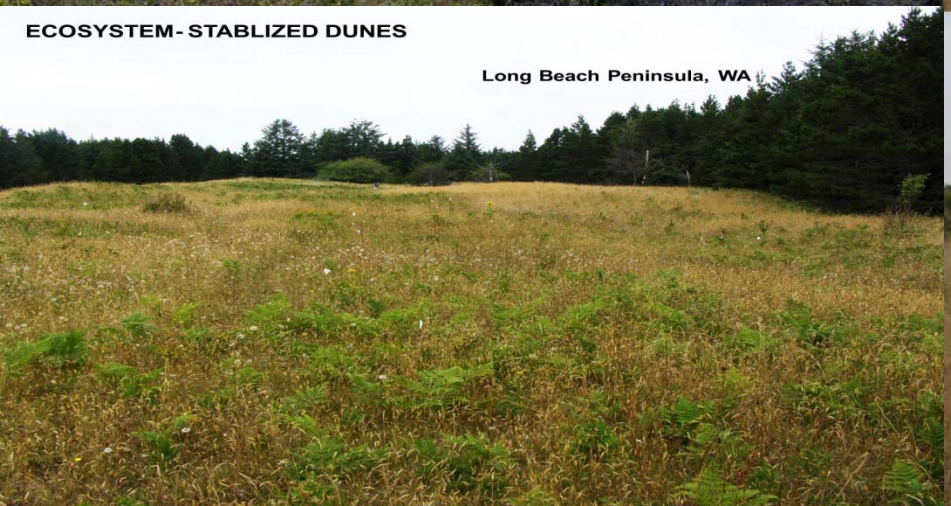
Oregon Fish and Wildlife Office

ECOSYSTEM- STABLIZED DUNES
Lake Earl, Del Norte County, CA

ECOSYSTEM - MONTANE / GRASSLANDS
Mt. Hebo


ECOSYSTEM - MARINE TERRACES AND HEADLANDS
Rock Creek - Big Creek

ECOSYSTEM - MARINE TERRACES AND HEADLANDS
Cascade Head


ECOSYSTEM- STABLIZED DUNES
Long Beach Peninsula, WA

ECOSYSTEM- STABLIZED DUNES
Clatsop Plains, Oregon

Coastal grassland/prairies have become less common on the landscape

THREATS

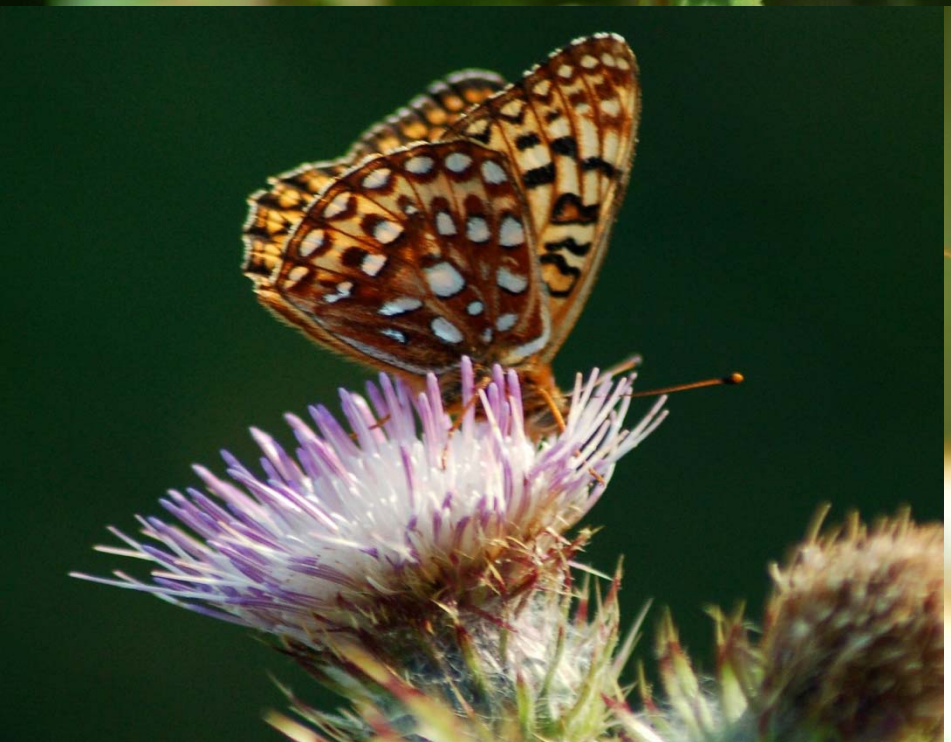
Habitat loss from succession

THREAT
Invasive Species

THREAT

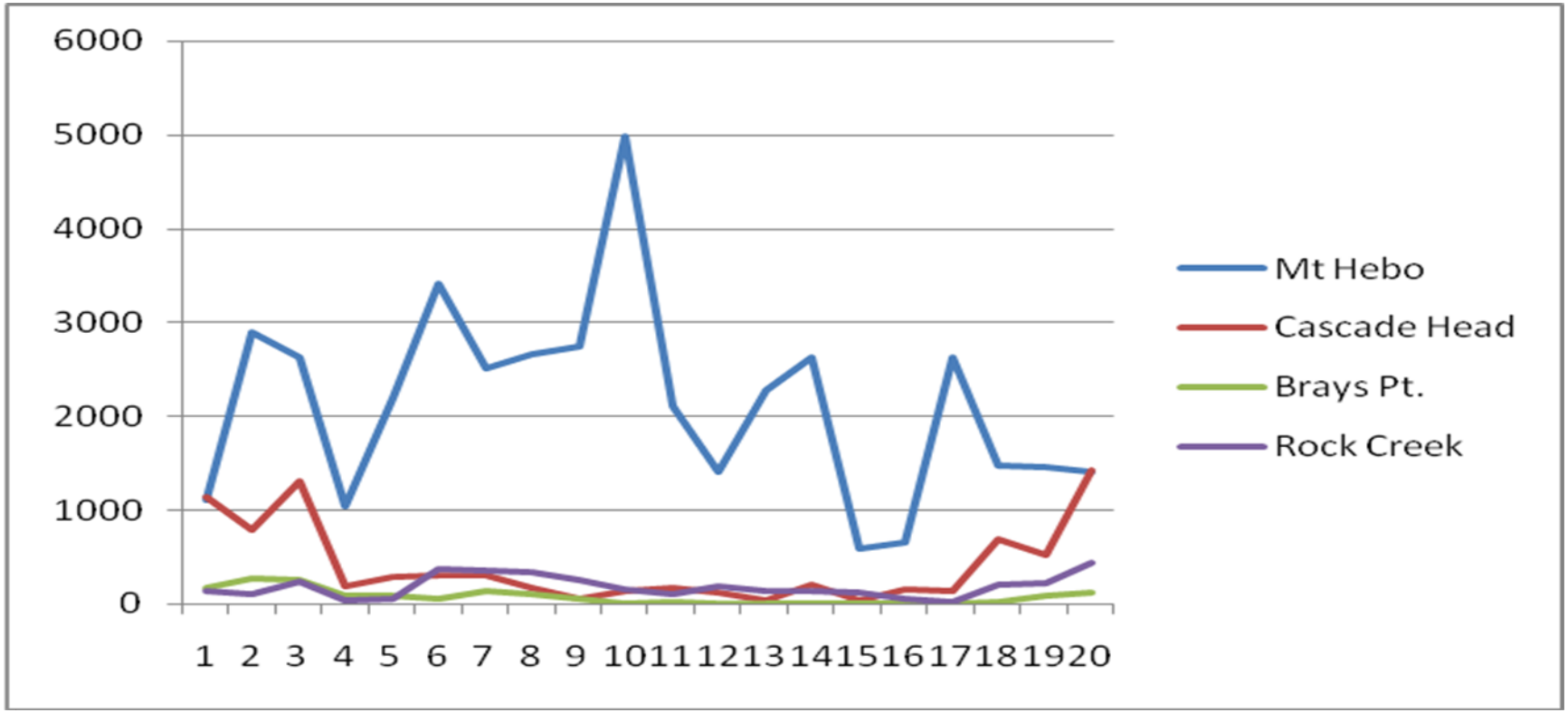
Lack of appropriate disturbance to maintain or create new habitat

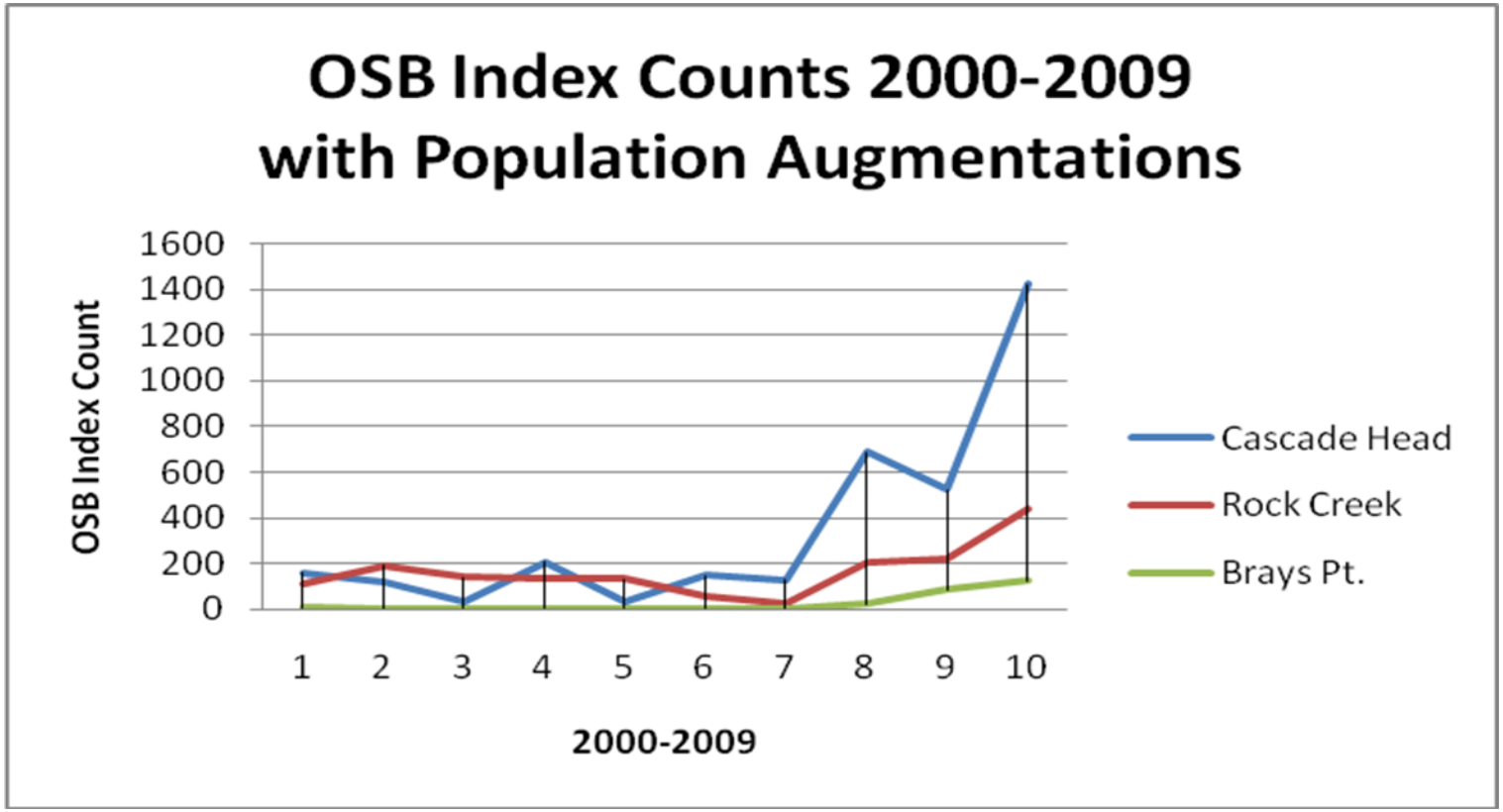
Prairie Plant Community



OREGON OSB INDEX COUNTS 1990-2009

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Mt. Hebo	1100	2888	2628	1041	2200	3413	2507	2664	2743	4983	2111	1402	2272	2625	588	657	2624	1473	1452	1411
Cascade Head	1138	790	1295	184	284	302	302	164	57	132	160	118	34	206	36	147	130	686	521	1420
Brays Point	169	280	265	81	81	53	146	101	46	2	9	0	2	3	2	0	0	21	82	124
Rock Creek	142	113	242	35	65	374	356	332	257	149	108	192	139	136	131	55	25	202	219	437
Totals	2549	4071	4430	1341	2630	4142	3311	3261	3103	5266	2388	1712	2447	2971	757	859	2779	2803	2274	3392





	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Cascade Head	160 (107)	118	34	206 (161)	36	147 (132)	130 (26-35)	686 (560)	521 (537)	1420 (1219)
Brays Pt.	9	0	2	3	2 (5)	0	0	21 (123)	82 (300)	124 (1213)
Rock Creek	108	192	139	136	131 (47)	55	25	202 (153)	219 (199)	437 (813-larvae+ 21-adults)

OREGON SILVERSPOT BUTTERFLY CAPTIVE REARING PROGRAM

Females are collected at Mt. Hebo

Eggs are laid

Caterpillars overwinter in refrigerators at the zoos

Caterpillars wake up and feed on violets

Pupae are put into cages.

Adults are counted and released

Release of Pupae in Cages

Horticulture Support

Conservation / Recovery Efforts

Native Plant Propagation and volunteer plantings

NRCS Plant Materials Center

OR Zoo- ZAP Program

Oregon Youth Conservation Corp,
Mid-Coast Watershed Council

Volunteer Violet Planting
October 2009

Oregon Coastal Butterflies

Seaside Hoary Elfin-
Caterpillar Host Plant- Kinnikinnik

Pine Elfin
Caterpillar Host Plant- Pine Trees

Lorquin's Admiral
Caterpillar Host Plant- Willow, Rose

Spring Azure
Caterpillar Host Plant- Lupine

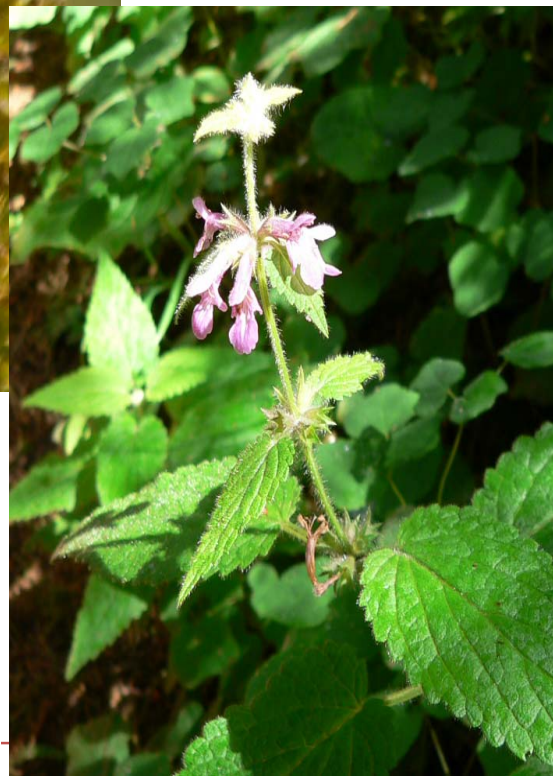
Pale Swallowtail
Caterpillar Host Plant- Ceanothus

California Tortoiseshell
Mudding for minerals

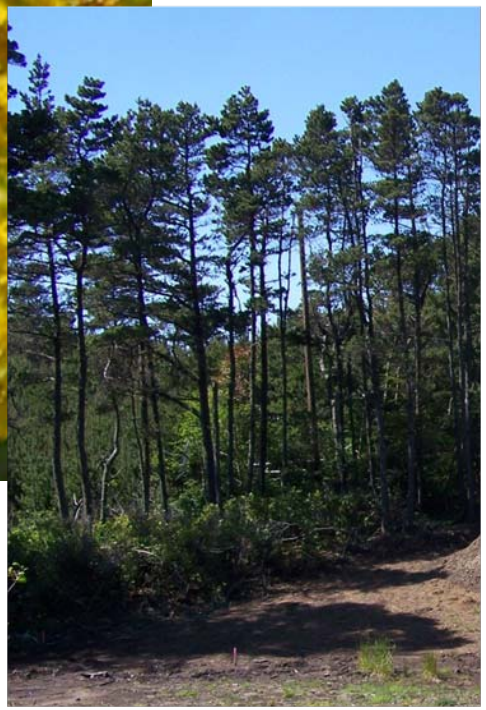
Caterpillar Host Plant- – Snowbrush

Woodland skipper –
Caterpillar Host Plant- Grasses

Purplish copper
Caterpillar Host Plant- Dock, Knotweed



Red Admiral
Caterpillar Host Plant- Stringing Nettle



Pine white
Host – Pine trees

American Lady

West Coast Lady

Painted lady

Host- Nettle and Mallows

Orange sulfur

Caterpillar Host Plant - clovers

Clodious parnassin

Caterpilllar Host Plant- Bleeding Heart

Mylitta crescent

Caterpilllar Host Plant- Thistle

Oregon silverspot butterfly as a pollinator