

## FDn12 Northern Dry-Sand Pine Woodland Pollinator Resources

Dry jack pine or red pine woodlands on level to gently undulating, sandy outwash or lake plains. Crown and surface fires were common historically.

**Examples of insect pollinators (and their associated host plants in parentheses) that use FDn12 include:**

**Bees:**

*Andrena melanochroa* (Rosaceae)

*Andrena erythrogaster* (*Salix*)

*Osmia inermis* (*Vaccinium*)

**Butterflies:**

*Callophrys polios* (*Epigaea repens*)

*Tharsalea epixanthe* (*Vaccinium*)

*Chlosyne nycteis* (*Eurybia macrophylla*)

*Satyrium titus* (*Prunus*)

**Moths:**

*Syngrapha rectangula* (*Abies balsamea*)

*Eulithis explanata* (*Vaccinium angustifolium*)

*Papaipema baptisiae* (*Apocynum androsaemifolium*)



*Chlosyne nycteis* (silvery checkerspot ) uses *Eurybia macrophylla* (large-leaved aster) as a host plant.

Photo: Bob Dunlap

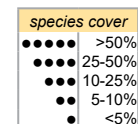


*Syngrapha rectangula* (salt and pepper looper) uses *Abies balsamea* (balsam fir) as a host plant. Photo: Kyle Johnson

# FDn12 Northern Dry-Sand Pine Woodland

## Pollinator Resources Table

FDn12 Class Factsheet. Based on 23 plots. November, 2024



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Canada mayflower ( <i>Maianthemum canadense</i> )	96	●●●	SI	Perennial	Present	insects	Early spring insect	5
Common strawberry ( <i>Fragaria virginiana</i> )	87	●	SC	Perennial	Present	insects	Early spring insect	3
Cow wheat ( <i>Melampyrum lineare</i> )	83	●	SC	Annual	Absent	insects	Somewhat specific insect	5
Wood anemone ( <i>Anemone quinquefolia</i> )	78	●●	UNK	Perennial	Present	insects	Early spring insect	4
Twinflower ( <i>Linnaea borealis</i> )	78	●●	SC	Perennial	Present	insects	Generalist	2
Bracken ( <i>Pteridium aquilinum</i> )	74	●●●●	SC	Perennial	Present	wind, water	Generalist	0
Wild sarsaparilla ( <i>Aralia nudicaulis</i> )	74	●●	D	Perennial	Present	insects	Generalist	4
Field or Variable pussytoes ( <i>Antennaria neglecta</i> or <i>A. neodica</i> )	57	●	A	Perennial	Present	wind	Generalist	0
Sand or Dog violet ( <i>Viola adunca</i> or <i>V. conspersa</i> )	52	●	Varies	Perennial	Present	insects	Varies	Varies
Bluebead lily ( <i>Clintonia borealis</i> )	52	●	SI	Perennial	Present	insects	Generalist	4
Veiny pea ( <i>Lathyrus venosus</i> )	52	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Spreading dogbane ( <i>Apocynum androsaemifolium</i> )	48	●	SI	Perennial	Present	insects	Generalist	4
Northern or Wirey groundcedar ( <i>Diphasiastrum complanatum</i> or <i>D. digitatum</i> )	48	●	SC	Perennial	Present	wind, water	Generalist	0
Hairy goldenrod ( <i>Solidago hispida</i> )	48	●	SI	Perennial	Present	insects	Generalist	4
Round-leaved pyrola ( <i>Pyrola rotundifolia</i> )	43	●	UNK	Perennial	Present	insects	Buzz pollination	5
Lindley's aster ( <i>Aster ciliolatus</i> )	43	●	UNK	Perennial	Present	insects	Generalist	3
Sweet-scented bedstraw ( <i>Galium triflorum</i> )	43	●	UNK	Perennial	Present	insects	Generalist	3
Pale vetchling ( <i>Lathyrus ochroleucus</i> )	43	●	SI	Perennial	Present	insects	Somewhat specific insect	5
One-sided pyrola ( <i>Pyrola secunda</i> )	39	●	UNK	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	4
Bunchberry ( <i>Cornus canadensis</i> )	39	●●	SI	Perennial	Present	insects	Generalist	4
Dwarf raspberry ( <i>Rubus pubescens</i> )	39	●	SC	Perennial	Present	insects	Generalist	2
Northern bedstraw ( <i>Galium boreale</i> )	35	●	SI	Perennial	Present	insects	Generalist	4
Smooth blue aster ( <i>Aster laevis</i> )	35	●	SI	Perennial	Present	insects	Generalist	4
Kalm's hawkweed ( <i>Hieracium kalmii</i> )	35	●	UNK	Perennial	Absent	insects	Generalist	4
Green-flowered pyrola ( <i>Pyrola chlorantha</i> )	30	●	SC	Perennial	Present	insects	Buzz pollination	4
Gaywings ( <i>Polygala paucifolia</i> )	30	●●	CH and CL	Annual or	Absent	insects	Somewhat specific insect	6
Bastard toadflax ( <i>Comandra umbellata</i> )	30	●	SC	Perennial	Present	insects	Early spring insect	3
Starflower ( <i>Trientalis borealis</i> )	30	●	SI/sc	Perennial	Present	insects	Generalist	3
Gray goldenrod ( <i>Solidago nemoralis</i> )	26	●	SI	Perennial	Present	insects	Generalist	4
Large-leaved aster ( <i>Aster macrophyllus</i> )	26	●●●	A	Perennial	Present	insects	Generalist	2
Tesselated rattlesnake plantain ( <i>Goodyera tessellata</i> )	26	●	SC	Perennial	Present	insects	Generalist	2
Upright bindweed ( <i>Calystegia spithamea</i> )	26	●	UNK	Perennial	Present	insects	Generalist	3
<b>Grasses and Sedges</b>								
Mountain rice grass ( <i>Oryzopsis asperifolia</i> )	87	●●●	UNK	Perennial	Absent	wind	Generalist	0
False melic grass ( <i>Schizachne purpurascens</i> )	65	●	UNK	Perennial	Absent	wind	Generalist	0
Sharp-pointed rice grass ( <i>Oryzopsis pungens</i> )	43	●	UNK	Perennial	Absent	wind	Generalist	0
Poverty grass ( <i>Danthonia spicata</i> )	35	●	SC/si	Perennial	Absent	wind	Generalist	0

Yellow or Scribner's panic grass ( <i>Panicum xanthophysum</i> or <i>P. oligosanthes</i> )	18	●	UNK	Perennial	Varies	wind	Generalist	0
Pennsylvania sedge ( <i>Carex pensylvanica</i> )	9	●●●	SC	Perennial	Present	wind	Generalist	0
<b>Low Shrubs</b>								
Lowbush blueberry ( <i>Vaccinium angustifolium</i> )	100	●●●	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Wintergreen ( <i>Gaultheria procumbens</i> )	83	●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Pipsissewa ( <i>Chimaphila umbellata</i> )	74	●	SC	Perennial	Present	insects	Somewhat specific insect	3
Bearberry ( <i>Arctostaphylos uva-ursi</i> )	57	●●	SC	Perennial	Present	insects	Early spring insect, Somewhat specific insect	3
Trailing arbutus ( <i>Epigaea repens</i> )	57	●	GD	Perennial	Present	insects	Early spring insect, Somewhat specific insect	5
Red raspberry ( <i>Rubus idaeus</i> )	35	●	SC	Perennial	Present	insects	Generalist	2
Velvet-leaved blueberry ( <i>Vaccinium myrtilloides</i> )	35	●	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
<b>Shrubs</b>								
Juneberries ( <i>Amelanchier</i> spp.)	100	●	Varies	Perennial	Present	insects	Early spring insect	Varies
Prickly or Smooth wild rose ( <i>Rosa acicularis</i> or <i>R. blanda</i> )	96	●	SC	Perennial	Present	insects	Generalist	2
Beaked hazelnut ( <i>Corylus cornuta</i> )	91	●●	Di	Perennial	Present	wind	Generalist	0
Bush honeysuckle ( <i>Diervilla lonicera</i> )	57	●●	SC	Perennial	Present	insects	Somewhat specific insect	3
Prairie willow ( <i>Salix humilis</i> )	57	●	D	Perennial	Present	insects	Early spring insect	5
Chokecherry ( <i>Prunus virginiana</i> )	48	●	SI	Perennial	Present	insects	Early spring insect	5
Snowberry or Wolfberry ( <i>Symphoricarpos albus</i> or <i>S. occidentalis</i> )	22	●	SC	Perennial	Present	insects	Generalist	2
<b>Tree Canopy</b>								
Jack pine	83	●●●●	UNK	Perennial	Absent	wind	Generalist	0
Red pine	48	●●●●	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	17	●●	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	17	●	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	13	●●●	D	Perennial	Present	wind	Generalist	0
White pine	13	●	SI	Perennial	Absent	wind	Generalist	0
White spruce	13	●●●	UNK	Perennial	Absent	wind	Generalist	0
Black spruce	9	●	UNK	Perennial	Absent	wind	Generalist	0
Red maple	4	●●●	D	Perennial	Absent	insects	Early spring insect	6
Northern red oak	-	-	SI	Perennial	Present	wind	Generalist	0
Bur oak	-	-	SI	Perennial	Present	wind	Generalist	0
<b>Tree Subcanopy</b>								
Jack pine	39	●●●	UNK	Perennial	Absent	wind	Generalist	0
Red pine	43	●●	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	39	●●	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	22	●	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	13	●	D	Perennial	Present	wind	Generalist	0
White pine	17	●	SI	Perennial	Absent	wind	Generalist	0
White spruce	13	●●●	UNK	Perennial	Absent	wind	Generalist	0

Black spruce	9	••	UNK	Perennial	Absent	wind	Generalist	0
Red maple	13	••	D	Perennial	Absent	insects	Early spring insect	6
Northern red oak	17	•	SI	Perennial	Present	wind	Generalist	0
Bur oak	9	•	SI	Perennial	Present	wind	Generalist	0
<b><i>Tree Shrublayer</i></b>								
Jack pine	22	•	UNK	Perennial	Absent	wind	Generalist	0
Red pine	22	•	UNK	Perennial	Absent	wind	Generalist	0
Balsam fir	61	••	UNK	Perennial	Absent	wind	Generalist	0
Paper birch	26	•	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	22	•	D	Perennial	Present	wind	Generalist	0
White pine	35	•	SI	Perennial	Absent	wind	Generalist	0
White spruce	17	•	UNK	Perennial	Absent	wind	Generalist	0
Black spruce	9	•	UNK	Perennial	Absent	wind	Generalist	0
Red maple	30	•	D	Perennial	Absent	insects	Early spring insect	6
Northern red oak	26	••	SI	Perennial	Present	wind	Generalist	0
Bur oak	39	•	SI	Perennial	Present	wind	Generalist	0