

**Appendix 10. Number and percent of Nymphalidae recorded at flower genera, 2002 and 2003.**

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
<b>American Snout (<i>Libytheana carinenta</i>)</b>					
Asteraceae	<i>Zinnia</i>	-	-	1	50.0%
Oleaceae	<i>Ligustrum</i>	1	100.0%	-	-
Primulaceae	<i>Lysimachia</i> *	-	-	1	50.0%
<b>Total <i>L. carinenta</i></b>		<b>1</b>		<b>2</b>	
<b>Gulf Fritillary (<i>Agraulis vanillae</i>)</b>					
Verbenaceae	<i>Verbena</i>	-	-	1	100.0%
<b>Total <i>A. vanillae</i></b>				<b>1</b>	
<b>Great Spangled Fritillary (<i>Speyeria cybele</i>)</b>					
Apocynaceae	<i>Vinca</i> *	1	1.9%	-	-
Asclepiadaceae	<i>Asclepias</i>	10	18.9%	20	26.3%
Asteraceae	<i>Chrysanthemum</i>	-	-	1	1.3%
	<i>Coreopsis</i>	3	5.7%	2	2.6%
	<i>Echinacea</i>	9	17.0%	6	7.9%
	<i>Echinacea / Rudbeckia / Ratibida</i>	1	1.9%	6	7.9%
	<i>Gaillardia</i>	-	-	4	5.3%
	<i>Helianthus</i>	1	1.9%	-	-
	<i>Ratibida</i>	1	1.9%	1	1.3%
	<i>Rudbeckia</i>	1	1.9%	5	6.6%
	<i>Tagetes</i>	-	-	3	3.9%
	<i>Taraxacum</i>	-	-	2	2.6%
	<i>Vernonia</i>	-	-	1	1.3%
	<i>Zinnia</i>	1	1.9%	18	23.7%
Buddlejaceae	<i>Buddleja</i>	2	3.8%	1	1.3%
Capparaceae	<i>Cleome</i> *	1	1.9%	-	-
Caryophyllaceae	<i>Dianthus</i>	4	7.5%	5	6.6%
Lamiaceae	<i>Lavandula</i>	1	1.9%	-	-
	<i>Monarda</i>	1	1.9%	-	-
Malvaceae	<i>Alcea</i> *	1	1.9%	-	-
Oleaceae	<i>Ligustrum</i>	7	13.2%	-	-
Polemoniaceae	<i>Phlox</i>	2	3.8%	-	-
Portulacaceae	<i>Portulaca</i> *	1	1.9%	-	-
Ranunculaceae	<i>Clematis</i>	-	-	1	1.3%
Verbenaceae	<i>Verbena</i>	5	9.4%	-	-
<b>Total <i>S. cybele</i></b>		<b>53</b>		<b>76</b>	

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
<b>unidentified fritillary</b>					
Asclepiadaceae	<i>Asclepias</i>	7	29.2%	-	-
Asteraceae	<i>Coreopsis</i>	1	4.2%	-	-
	<i>Echinacea</i>	1	4.2%	-	-
	<i>Tagetes</i>	1	4.2%	-	-
	<i>Zinnia</i>	8	33.3%	-	-
Brassicaceae	<i>Hesperis</i>	1	4.2%	-	-
Lamiaceae	<i>Blephilia</i>	2	8.3%	-	-
Liliaceae	<i>Hosta</i> *	1	4.2%	-	-
Onagraceae	<i>Oenothera</i>	1	4.2%	-	-
Solanaceae	<i>Petunia</i>	1	4.2%	-	-
<b>Total unidentified fritillary</b>		<b>24</b>			
<b>Silvery Checkerspot (<i>Chlosyne nycteis</i>)</b>					
Apiaceae	<i>Eryngium</i> *	-	-	1	6.7%
Asclepiadaceae	<i>Asclepias</i>	-	-	2	13.3%
Asteraceae	<i>Echinacea</i>	3	50.0%	7	46.7%
	<i>Eupatorium</i>	-	-	1	6.7%
	<i>Liatris</i>	-	-	1	6.7%
	<i>Rudbeckia</i>	2	33.3%	1	6.7%
Crassulaceae	<i>Sedum</i>	1	16.7%	-	-
Fabaceae	<i>Lespedeza</i> *	-	-	1	6.7%
Polemoniaceae	<i>Phlox</i>	-	-	1	6.7%
<b>Total C. nycteis</b>		<b>6</b>		<b>15</b>	
<b>Pearl Crescent (<i>Phyciodes tharos</i>)</b>					
Apiaceae	<i>Daucus</i>	1	1.8%	-	-
Asteraceae	<i>Ageratum</i>	7	12.7%	1	1.7%
	<i>Aster</i>	3	5.5%	1	1.7%
	<i>Centaurea</i>	3	5.5%	-	-
	<i>Coreopsis</i>	10	18.2%	10	16.9%
	<i>Echinacea</i>	5	9.1%	-	-
	<i>Echinacea / Rudbeckia / Ratibida</i>	2	3.6%	-	-
	<i>Eupatorium</i>	1	1.8%	2	3.4%
	<i>Gaillardia</i>	-	-	1	1.7%
	<i>Heliopsis</i>	1	1.8%	2	3.4%
	<i>Melampodium</i> *	5	9.1%	2	3.4%
	<i>Ratibida</i>	-	-	1	1.7%
	<i>Rudbeckia</i>	1	1.8%	3	5.1%
	<i>Tagetes</i>	1	1.8%	-	-
	<i>Zinnia</i>	2	3.6%	25	42.4%
Buddlejaceae	<i>Buddleja</i>	2	3.6%	-	-
Convolvulaceae	<i>Ipomoea</i> *	1	1.8%	-	-
Crassulaceae	<i>Sedum</i>	-	-	1	1.7%

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
Fabaceae	<i>Trifolium</i>	-	-	1	1.7%
	<i>Trifolium / Melilotus / Medicago</i>	6	10.9%	1	1.7%
Lamiaceae	<i>Lavandula</i>	1	1.8%	-	-
	<i>Mentha</i>	-	-	3	5.1%
	<i>Salvia</i>	1	1.8%	-	-
Malvaceae	<i>Hibiscus</i>	-	-	2	3.4%
Primulaceae	<i>Lysimachia *</i>	-	-	1	1.7%
Rosaceae	<i>Fragaria</i>	1	1.8%	-	-
Saxifragaceae	<i>Astilbe *</i>	1	1.8%	-	-
Verbenaceae	<i>Lantana</i>	-	-	1	1.7%
	<i>Verbena</i>	-	-	1	1.7%
<b>Total <i>P. tharos</i></b>		<b>55</b>		<b>59</b>	
<b>unidentified checkerspot / crescent</b>					
Asteraceae	<i>Cosmos</i>	-	-	1	6.3%
	<i>Tagetes</i>	-	-	2	12.5%
	<i>Zinnia</i>	-	-	12	75.0%
Fabaceae	<i>Trifolium</i>	-	-	1	6.3%
<b>Total unidentified checkerspot / crescent</b>				<b>16</b>	
<b>American Lady (<i>Vanessa virginiensis</i>)</b>					
Asteraceae	<i>Coreopsis</i>	-	-	1	8.3%
	<i>Liatris</i>	-	-	1	8.3%
	<i>Zinnia</i>	-	-	9	75.0%
Buddlejaceae	<i>Buddleja</i>	-	-	1	8.3%
Rubiaceae	<i>Pentas</i>	1	100.0%	-	-
<b>Total <i>V. virginiensis</i></b>		<b>1</b>		<b>12</b>	
<b>Painted Lady (<i>Vanessa cardui</i>)</b>					
Amaranthaceae	<i>Gomphrena</i>	-	-	3	1.8%
Asclepiadaceae	<i>Asclepias</i>	-	-	1	0.6%
Asteraceae	<i>Aster</i>	-	-	6	3.6%
	<i>Coreopsis</i>	-	-	1	0.6%
	<i>Cosmos</i>	1	33.3%	11	6.6%
	<i>Dahlia *</i>	-	-	1	0.6%
	<i>Echinacea / Rudbeckia / Ratibida</i>	-	-	1	0.6%
	<i>Liatris</i>	-	-	20	12.0%
	<i>Melampodium *</i>	-	-	1	0.6%
	<i>Rudbeckia</i>	-	-	2	1.2%
	<i>Solidago</i>	-	-	3	1.8%
	<i>Tagetes</i>	-	-	1	0.6%
	<i>Tithonia</i>	-	-	2	1.2%
	<i>Zinnia</i>	-	-	63	37.7%

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
Buddlejaceae	<i>Buddleja</i>	-	-	3	1.8%
Capparaceae	<i>Cleome</i> *	-	-	1	0.6%
Crassulaceae	<i>Sedum</i>	-	-	26	15.6%
Lamiaceae	<i>Salvia</i>	-	-	3	1.8%
Primulaceae	<i>Lysimachia</i> *	1	33.3%	-	-
Ranunculaceae	<i>Clematis</i>	-	-	6	3.6%
Rosaceae	<i>Rosa</i> *	1	33.3%	-	-
Verbenaceae	<i>Lantana</i>	-	-	4	2.4%
	<i>Verbena</i>	-	-	8	4.8%
<b>Total V. cardui</b>		<b>3</b>		<b>167</b>	
<b>Red Admiral (<i>Vanessa atalanta</i>)</b>					
Asteraceae	<i>Ageratum</i>	1	33.3%	-	-
	<i>Cosmos</i>	-	-	1	14.3%
	<i>Tithonia</i>	-	-	3	42.9%
	<i>Zinnia</i>	-	-	3	42.9%
Oleaceae	<i>Ligustrum</i>	1	33.3%	-	-
Valerianaceae	<i>Valerianella</i> *	1	33.3%	-	-
<b>Total V. atalanta</b>		<b>3</b>		<b>7</b>	
<b>unidentified lady (<i>Vanessa</i> sp.)</b>					
Asteraceae	<i>Cosmos</i>	-	-	1	50.0%
Liliaceae	<i>Hosta</i> *	-	-	1	50.0%
Rosaceae	<i>Fragaria</i>	1	100.0%	-	-
<b>Total <i>Vanessa</i> spp.</b>		<b>1</b>		<b>2</b>	
<b>Common Buckeye (<i>Junonia coenia</i>)</b>					
Asteraceae	<i>Centaurea</i>	1	6.7%	-	-
	<i>Dahlia</i> *	-	-	1	10.0%
	<i>Echinacea</i>	1	6.7%	-	-
	<i>Echinacea / Rudbeckia / Ratibida</i>	-	-	1	10.0%
	<i>Eupatorium</i>	-	-	1	10.0%
	<i>Zinnia</i>	1	6.7%	3	30.0%
Buddlejaceae	<i>Buddleja</i>	4	26.7%	1	10.0%
Crassulaceae	<i>Sedum</i>	2	13.3%	-	-
Dipsacaceae	<i>Scabiosa</i>	2	13.3%	-	-
Fabaceae	<i>Trifolium / Mellilotus / Medicago</i>	2	13.3%	1	10.0%
Lamiaceae	<i>Salvia</i>	1	6.7%	-	-
Liliaceae	<i>Allium</i>	-	-	1	10.0%
Verbenaceae	<i>Lantana</i>	1	6.7%	1	10.0%
<b>Total J. coenia</b>		<b>15</b>		<b>10</b>	

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
<b>Red-Spotted Purple (<i>Limenitis arthemis astyanax</i>)</b>					
Asteraceae	<i>Zinnia</i>	1	25.0%	-	-
Cornaceae	<i>Cornus</i> *	1	25.0%	-	-
Geraniaceae	<i>Geranium</i> / <i>Pelargonium</i> *	-	-	1	100.0%
Ranunculaceae	<i>Clematis</i>	1	25.0%	-	-
Solanaceae	<i>Petunia</i>	1	25.0%	-	-
<b>Total <i>L. arthemis</i></b>		<b>4</b>		<b>1</b>	
<b>Goatweed Leafwing (<i>Anaea andria</i>)</b>					
Euphorbiaceae	<i>Croton</i> *	1	100.0%	-	-
<b>Total <i>A. andria</i></b>		<b>1</b>			
<b>Northern Pearly-Eye (<i>Enodia anthedon</i>)</b>					
Rhamnaceae	<i>Ceanothus</i>	1	100.0%	-	-
<b>Total <i>E. anthedon</i></b>		<b>1</b>			
<b>Common Wood-Nymph (<i>Cercyonis pegala</i>)</b>					
Asteraceae	<i>Echinacea</i>	-	-	1	50.0%
	<i>Echinacea</i> / <i>Rudbeckia</i> / <i>Ratibida</i>	-	-	1	50.0%
Lamiaceae	<i>Salvia</i>	1	100.0%	-	-
<b>Total <i>C. pegala</i></b>		<b>1</b>		<b>2</b>	
<b>Monarch (<i>Danaus plexippus</i>)</b>					
Amaranthaceae	<i>Gomphrena</i>	1	4.3%	-	-
Asclepiadaceae	<i>Asclepias</i>	2	8.7%	30	20.5%
Asteraceae	<i>Ageratum</i>	1	4.3%	-	-
	<i>Coreopsis</i>	-	-	1	0.7%
	<i>Cosmos</i>	1	4.3%	4	2.7%
	<i>Echinacea</i>	1	4.3%	2	1.4%
	<i>Echinacea</i> / <i>Rudbeckia</i> / <i>Ratibida</i>	-	-	4	2.7%
	<i>Eupatorium</i>	2	8.7%	2	1.4%
	<i>Liatris</i>	2	8.7%	12	8.2%
	<i>Rudbeckia</i>	2	8.7%	-	-
	<i>Tagetes</i>	1	4.3%	1	0.7%
	<i>Tithonia</i>	-	-	3	2.1%
	<i>Zinnia</i>	3	13.0%	60	41.1%
Buddlejaceae	<i>Buddleja</i>	2	8.7%	1	0.7%
Campanulaceae	<i>Campanula</i> *	1	4.3%	-	-
Capparaceae	<i>Cleome</i> *	-	-	1	0.7%
Convolvulaceae	<i>Ipomoea</i> *	-	-	2	1.4%
Crassulaceae	<i>Sedum</i>	1	4.3%	-	-
Geraniaceae	<i>Geranium</i> / <i>Pelargonium</i> *	-	-	1	0.7%

		2002		2003	
		Butterflies	Percent	Butterflies	Percent
Lamiaceae	<i>Monarda</i>	-	-	1	0.7%
	<i>Salvia</i>	-	-	1	0.7%
Liliaceae	<i>Hosta</i> *	1	4.3%	-	-
Lythraceae	<i>Lagerstroemia</i> *	1	4.3%	-	-
Malvaceae	<i>Hibiscus</i>	-	-	2	1.4%
Ranunculaceae	<i>Clematis</i>	-	-	12	8.2%
Rosaceae	<i>Rosa</i> *	-	-	1	0.7%
Rubiaceae	<i>Pentas</i>	-	-	4	2.7%
Verbenaceae	<i>Verbena</i>	1	4.3%	1	0.7%
<b>Total <i>D. plexippus</i></b>		<b>23</b>		<b>146</b>	