Survey or the Moths, Butterflies, and Leafhoppers at Sweet Fern Savanna
Land and Water Reserve

Summary

Sweet Fern Savanna L&WR was visited by Mr. George Derkovitz six times between July 1, 2007 and June 31, 2008, bringing the total number of visits for the two years of the granting periods to 20. Insects were captured using sweep nets, aerial nets, battery-powered black light bucket traps, and white sheets illuminated by generator-powered mercury vapor lamps. Host plants were examined for larval stages.

Forty-five new species of Lepidoptera were identified, bringing the total to 306 for the two years of the survey. Forty-two new moths were found, bringing that total to 281. Of note was the finding of two new remnant-dependent species, *Hemileuca maia* and *Hyparpax aurora*. Three species of butterflies were added to the list.

Several leafhoppers were captured, but they have yet to be identified.

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SWEETFERN SAVANNA NIGHT LOG

DATE / No. Bucket Traps set with blacklight / Sheet with mercury vapor lamp

7-07-06 / 4 / 1
8-19-06 / 0 / 1
9-09-06 / 4 / 2
9-15-06 / 4 / 0
9-16-06 / 4 / 3
9-23-06 / 3 / 2
10-01-06 / 4 / 0
10-02-06 / 3 / 0
10-07-06 / 0 / 1

04-21-07 / 0 / 2
05-05-07 / 2 / 1
05-19-07 / 2 / 1
06-02-07 / 0 / 2
06-09-07 / 2 / 2
07-14-07/ 3/ 0
07-15-07/ 3/ 0
08-10-07/ 2/ 0
08-17-07 2/ 0
08-25-07 0/ 1
09-07-07 2/ 0

Table 1. SWEET FERN SAVANNA LEPIDOPTERAN SPECIES LIST

Hodge's #	FAMILY/SPECIES	R-D*	R-A**	CATEGORY	HOST PLANTS
	Family – Tineidae				
372	*Acrolophus plumifrontella*				
	Family – Yponomeutidae				
2401	*Atteva punctella*				Tree-of-Heaven
	Family – Tortricidae				
2829	*Olethreutes osmundana*	X			*Osmunda* species
3116.a	*Eucosma dorsisignatana diffusana*				Roots of goldenrods
3494	*Melissopus latiferreanus*			Filbertworm moth	Chestnut burs, young beechnuts
3495	*Ecdytolopha punctidiscana*				
3497	*Ecdytolopha insiticiana*			Locust twig borer moth	Twigs of locust, wisteria
3597	*Argyrotaenia velutinana*				Prunis serotina
	Subfamily – Limacodidae				
4652	*Tortricidia testacea*				Beeches, birches, black cherry, Oaks,
4659	*Packardia geminata*				Oaks
4667	*Apoda y-inversum*				Oaks
4669	*Apoda biguttata*				Blue beech, hickories, oaks
4671	*Prolimacodes badia*			Skiff moth	Birches, Blueberries,chestnut,,willows,oaks, other trees
4681	*Isa textula*				Various trees and shrubs
4685	*Adoneta spinuloides*				Various trees and shrubs
4697	*Euclea delphinii*			Spiny oak-slug moth	Various trees and shrubs
4699	*Parsa indetermina*			Stinging rose caterpillar moth	Rose, oaks, poplars, maples
4700	*Sibene stimulea*			Saddleback caterpillar moth	Many plants and trees

R-D = Remnant Dependent
R-A = Remnant Associate

Subfamily -- Pyraustinae

5079	*Udea rubigalis*	Celery leaftier moth	Many low plants
5156	*Nomophila nearctica*		Wide variety of plants
5159	*Desmia funeralis*	Grape leaf-folder moth	Evening primrose
5169	*Hymenia perspectalis*	Spotted-beet webworm moth	Various greenhouse plants
5362	*Crambus agitatellus*		Grasses, other low plants
5378	*Crambus laqueatellus*		
5394	*Platyes vobisne*		
5420	*Microcrambus elegans*		
5464	*Urola nivalis*		
5466	*Vaxi critica*		
5524	*Hypsopygia costalis*	Clover hayworm moth	Stored hay
5552	*Galasa nigrinodis*		Larva ties together and eats dead leaves of boxwood
5798	*Nephopterix carneela*		Larva ties together and eats dead leaves of boxwood
6048	*Peoria gemmatella*		Larva ties together and eats dead leaves of boxwood

Family -- Geometridae

6261	*Heliomata cycladata*	Common spring moth	Black and honey locust
6322	*Meltilla xanthometata*	Orange wing	Locust
6486	*Tornos scolopacinarius*	Dimorphic gray	Asters, coreopsis
6640	*Biston betularia cognataria*	Pepper and salt geometer	Many trees and shrubs
6654	*Hypagyrtis unipunctata*	One-spotted variant	Willows, alders, birches, firs, oaks, pines
6724	*Euchlaena serrata*	The saw-wing	Apple, blueberries, maples
6729	*Euchlaena johnsonaria*	Johnson's euchlaena	Hawthorn, ash, oaks, birch, prunus sp., elm, willows

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6737	*Euchlaena tigrinaria*	Mottled euchlaena	Oak, Quaking aspen, white birch
6739	*Euchlaena irraria*	Least marked euchlaena	Oaks, quaking aspen, sugar maple
6753	*Pero honestaria*	Honest pero	Black cherry, American larch, Black locust
6763	*Nacophora quernaria*	Oak beauty	Balsam, willow, basswood, birch, elm, hawthorn
6797	*Ennomos magnaria*	Maple spanworm moth	Many trees
6819	*Metanema inatomaria*	Pale metanema	Aspens, birch, hazel, poplars, firs
6820	*Metanema determinata*	Dark metanema	Aspens, ash, willows
6835	*Cepphis armataria*	Scallop moth	Apple, birch, maples, currants, gooseberry
6843	*Plagodis fervidaria (spring)*	Fervid plagodis	Ashes, birches, maples, oaks, spruce
6941	*Eusarca confusaria*	Confused eusarca	Asters, clover, dandelion, goldenrod, other composites
6987	*Antepione thisoaria (spring)*	Variable antipione	Apple, maple, sumac
7071	*Chlorochlamys chloroleucaria*	Blackberry looper	*Rubus* sp. And various composites
7139	*Cyclophora pendulinaria*	Sweetfern geometer	Sampson's snakeroot, sweet fern, alder, beech,blueberries
7169	*Scopula inductata*	Soft-lined wave	Aster, clover, dandelion, ragweeds, prunus sp.
7196	*Eulithis diversilineata*	Lesser grapevine looper moth	Grapes, virginia creeper
7237	*Hydriomena transfigurata*	Transfigured hydriomena	Pines
7414	*Orthonama obstipata*	The gem	Dock, elms, mayweed, *Polygonum*, *Senecio*
7416	*Orthonama centrostrigaria*	Bent-lined carpet	Knotweed, smartweed
7440	*Eubaphe mendica*	The beggar	Maples, violets
7445	*Horisme intestinata*	Brown bark carpet	Hoptree, junipers, wild cherry

Family – Apatelodidae

7663	*Apatelodes torrefacta*		
7665	*Olceclostera angelica*		

Family - Lasiocampidae

Number	Scientific Name	R-D	R-A	Common Name	Host Plants
7670	*Tolype velleda*				
7687	*Phyllodesma americana*				
7701	*Malacosma americanum*				

Family - Saturniidae

Number	Scientific Name	R-D	R-A	Common Name	Host Plants
7716	*Anisota stigma*			Spiny oakworm moth	Oaks, hazelnut
7730	*Hemileuca maia*	X		Buck Moth	Oak, Scrub oak
7746	*Automeris io*			Io moth	Birches, clover, elms, maples, oaks, willows and others
7757	*Antheraea polyphemus*			Polyphemus moth	Ashes, birches, maples, oaks, hickories, others

Family - Sphingidae

Number	Scientific Name	R-D	R-A	Common Name	Host Plants
7776	*Manduca quinquemaculata*			Five-spotted hawk moth	Tobacco and tomato plants
7796	*Sphinx eremitus*			Hermit sphinx	Bee-balm, bugleweeds, mints, sage
7821	*Smerinthus jamaicensis*			Twin-spotted sphinx	Apple, ash, birch, elm, plum, willow
7824	*Paonias excaecatus*			Blinded sphinx	Basswood, birches, elms, oaks, poplars, *Prunus* sp.
7825	*Paonias myops*			Small-eyed sphinx	Birches, hawthorns, poplars, willows, *Prunus*
7885	*Darapsa myron*			Hog (Virginia) sphinx	Ampelopsis, viburnums, Virginia creeper
7894	*Hyles lineata*			White-lined sphinx	Apple, willow-herbs, four o'clocks, other plants

Family - Notodontidae

Number	Scientific Name	R-D	R-A	Common Name	Host Plants
7895	*Clostera albosigma*			Sigmoid prominent	Poplars, willows
7902	*Datana ministra*			Yellow-necked caterpillar moth	Various trees
7906	*Datana contracta*			Contracted datana	Blueberries, chestnut, hickories, oaks, witch-hazel

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7908	*Datana perspicua*		Spotted datana	Sumacs
7915	*Nadata gibbosa*		White-spotted prominent	Birches, cherries, maples, oaks, other trees
7917	*Hyperaeschra georgica*		Georgian prominent	Oaks
7920	*Peridea angulosa*		Angulose prominent	Oaks
7922	*Pheosia rimosa*		Black-rimmed prominent	Poplars, willows
7926	*Nadonta scitipennis*			
7931	*Gluphisia septentrionis*		Common gluphisia	Poplars
7937	*Furcula cinerea*		Gray furcula	Aspens, birches, poplars, willows
7957	*Dasylophia anguina*			
8005	*Schizura ipomoeae*		Morning glory prominent	Roses, beech, birch, elms, maple, oak, morning glory
8007	*Schizura unicornis*		Unicorn caterpillar moth	Many trees and shrubs
8017	*Oligocentria lignicolor*		White-streaked prominent	Beech, birches, oak
8022	*Hyparpax aurora*	X	Pink prominent	Scrub oak, viburnums
Family - Arctiidae				
8107	*Haploa clymene*		Clymene moth	*Eupatorium*, oaks, willows
8109	*Haploa reversa*		Reversed haploa	Wide variety
8112	*Haploa confusa*		Confused haploa	Hounds tongue
8131	*Estigmene acrea*		Salt marsh moth	Many plants
8137	*Spilosoma virginica*		Virginian tiger moth	Many plants
8140	*Hyphantria cunea*		Fall webworm	Trees
8157	*Phragmatobia lineata*		Lined-ruby tiger moth	*Eupatorium* sp.
8188	*Apantesis figurata*		Figured tiger moth	*Dandelion, Plantain, other plants*
8195	*Apantesis oithona*		Oithona tiger moth	Clover, coccinia, wild pea
8199	*Apantesis arge*		Arge tiger moth	Cactus, grape, sunflowers, other low plants
8203	*Halysidota tessellaris*		Banded tussock moth	Trees, willows, low shrubs
8230	*Cycnia tenera*		Delicate cycnia	Dogbanes, milkweeds
8231	*Cycnia oregonensis*		Oregon cycnia	Dogbanes
8238	*Euchaetes egle*		Milkweed tussock moth	Milkweeds

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#	Species		Common name	Host
8262	*Ctenucha virginica*		Virginia ctenucha	Grasses, irises, sedges
8267	*Cisseps fulvicollis*		Yellow-collared scape moth	Grasses, lichens, spike rush

Family - Lymantriidae

#	Species		Common name	Host
8316	*Orygia leucostigma*		White-marked tussock moth	Various hosts

Family - Noctuidae

Subfamily - Herminiinae

#	Species		Common name	Host
8322	*Idia americalis*		American idia	Lichens
8323	*Idia aemula*		Common idia	Dead leaves
8329	*Idia diminuendis*		Orange-spotted idia	
8351	*Zanclognatha crualis*		Early zanclonatha	Dead leaves
8352	*Zanclognatha jacchusalis*			Dead cottonwood leaves
8355	*Chytolita morbidalis*		Morbid owlet	Dead leaves
8357	*Chytolita absorptalis*		Slant-lined owlet	Grasses
8362	*Phalenostola metonalis*		Pale epidelta	Kentucky blue grass, dead leaves
8364	*Phalenostola larentioides*		Black-banded owlet	K. blue grass, clover, dead leaves
8366	*Tetanolita mynesalis*		Smoky tetanolita	Nectars on flowers
8368	*Tetanolita floridana*		Florida tetanolita	Dead leaves
8370	*Bleptina caradrinalis*		Bent-winged owlet	Dead leaves
8384.1	Renia flavipunctalis			Dead leaves of deciduous trees
8393	*Lascoria ambigualis*		Ambiguous moth	Ragweed stalks
8397	*Palthis angulalis*		Dark-spotted pathis	Red osier dogwood,honeysuckle,serviceberry
8404	*Rivula propinqualis*		Spotted grass moth	Grasses
8411	*Colobochyla interpuncta*		Yellow-lined owlet	Willow leaves
8412	*Melanomma auricinctaria*	X		Huckelberry

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Subfamily - Hypeninae

8421	*Hypenodes fractilinea*			
8441	*Bomolocha manalis*		Flowing-lined bomolocha	
8465	*Platyhypena scabra*		Green cloverworm moth	
8481	*Phytometra rhodarialis*		Pink-bordered yellow	Many plants

Subfamily - Catocalinae

8490	*Pangrapta decoralis*	X	Decorated owlet	Blueberry
8491	*Ledaea perditalis*		Lost owlet	*Scirpus cyperinus*, buttonbush
8522	*Gabara subnivosella*	X		
8555	*Scoliopteryx libatrix*		The Herald	Poplars, willows
8587	*Panopoda rufimargo*		Red-lined panopoda	Beeches, oaks
8651	*Lesmone detrahens*	X	Detracted owlet	
8689	*Zale lunata*		Lunate zale	Many trees and shrubs
8694	*Zale aeruginosa*			
8695	*Zale undularis*		Black zale	Black and honey locust
8739	*Caenurgina erechtea*		Forage looper moth	Clovers, grasses, great ragweed
8764	*Ptichodis anilis*			
8769	*Spiloloma lunilinea*		Moon-lined moth	Honey locust
8857	*Catocala ultronia*		Ultronia underwing	Member's of the rose family
8864	*Catocala grynea*		Woody underwing	Apple, hawthorn, plum
8775	*Catocala antinympha*	X	Wayward (Sweet fern) underwing	Sweet fern (*Comptonia*)
8841	*Catocala abbreviatella*	X	Abbreviated underwing	Leadplant
8876	*Catocala micronympha*		Little nymph	Oaks

Subfamily - Plusinae

8889	*Agrapha oxygramma*		Sharp-stigma looper moth	Asters, goldenrod, horseweed
8890	*Pseudoplusia includens*		Soybean looper moth	Goldenrods, many plants
8898	*Allagrapha aerea*		Unspotted looper	Stinging nettle, asters

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8899	*Pseudeva purpurigera*	Straight-lined looper moth	Meadow-rue
8924	*Anagrapha falcifera*	Celery looper moth	Viburnum, clover, plaintain, other low plants
8962	*Paectes abrostoloides*	Large paectes	Sweetgum
8971	*Baileya dormitans*	Sleeping baileya	Ironwood
8990	*Nola cilicoides*	Blurry-patched nola	

Subfamily - Acontinae

9040	*Hypersrotia secta*	Black-patched graylet	Red & white oak
9044	*Thioptera nigrofimbria*	Black-bordered lemon moth	Crabgrass, morning glories
9046	*Lithacodia bellicula*	Bog lithacodia	
9047	*Lithacodia muscosula*	Large mossy	Grasses
9051	*Lithacodia musta*	Small mossy	
9054	*Lithacodia indeterminata*	Tufted-bird dropping moth	Plants in rose family
9062	*Cerma cerintha*		
9089	*Tarachidia binocula*		
9090	*Tarachidia candefacta*	Olive-shaded bird-dropping moth	Ragweed
9095	*Tarachidia erastrioides*	Small bird-dropping moth	Ragweed
9127	*Spragueia leo*	Common spragueia	Bindweed
9193	*Raphia frater*	The brother	Aspen, poplars, willows

Subfamily - Acronictinae

9200	*Acronicta americana*	American dagger moth	Many trees
9208	*Acronicta betulae*	Birch dagger moth	Birches
9209	*Acronicta radcliffei*	Radcliff's dagger moth	*Prunus* sp.
9221	*Acronicta funeralis*	Funerary dagger moth	Maples, apples, elms, birchs, willows
9238	*Acronicta lobeliae*	Lobelia dagger moth	Blackcherry, oak
9244	*Acronicta modica*	Medium dagger moth	Oaks
9249	*Acronicta increta*		
9250	*Acronicta inclara*	Unclear dagger moth	Birches, chestnut, oaks

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Code	Species	R-D	R-A	Common name	Food plants
9264	*Acronicta longa*			Long-winged dagger moth	Birches, willows, oaks, roses, cherry
9266	*Acronicta lithospila*			Streaked dagger moth	Chestnut, oaks, walnut, hickory
9272	*Acronicta oblinata*			Smeared dagger moth	Oaks, willows, grasses, elms, buttonbush, many plants
9280	*Simyra henrici*			Henry's marsh moth	Willows, poplars, cattails, grasses, sedges
9284	*Agriopodes teratophora*	X		The gray marvel	Mint, monarda
9286	*Harrisimemna trisignata*			Harris's three spot	Willows, other woody plants
9299	*Eudryas unio*			Pearly wood nymph	Willow herb, grapes, evening primrose
9301	*Eudryas grata*			Beautiful wood nymph	Buttonbush, grapes, Virginia creeper
Subfamily – Amphipyrinae					
9391	*Luperina passer*			Dock rustic	Roots of dock
9393	*Luperina stipata*	X			Spartina
9406	*Oligia fractilinea*				Timothy
9418	*Oligia obtusa*	X			Sedges
9427	*Meropleon diversicolor*				Sneezeweed
9485	*Papaipema baptisiae*				Dogbane, baptisiae, cacalia
9480	*Papaipema inquaesita*	X		Sensitive fern borer moth	Onoclea
9480	*Papaipema pterssi*	X		Bracken borer moth	Pteridium
9473	*Papaipema impecuniosa*	X			Vernonia
9507	*Papaipema limpida*				
9556	*Chytonix palliatricula*			Cloaked marvel	Smut-infested aster
9560	*Dypterygia rozmani*			American bird's wing moth	Docks, smartweed
9578	*Hyppa xylinoides*			Common hyppa	St. John's wort, roses, many other plants
9626	*Trachea delicata*				
9633	*Calloistria cordata*			Silver-spotted fern moth	Ferns
9637	*Magusa orbifera*			Orbed narrow-wing	Black ironweed
9638	*Amphipyra pyramidoides*			Copper underwing	Trees, shrubs
9647	*Proxenus miranda*			Miranda moth	Alfalfa, dandelion
9662	*Balsa malana*			Many-dotted appleworm moth	Apple, cherry, elm, plum

R-D = Remnant Dependent
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Code	Species		Common name	Host plants
9661	*Crambodes talidiformis*		Verbena moth	Verbena
9666	*Spodoptera frugiperda*		Fall armyworm moth	Many plants
9669	*Spodoptera ornithogalli*		Yellow-striped armyworm moth	Many plants
9678	*Elaphria versicolor*		Variegated midget	Firs, pines, spruces
9680	*Elaphria georgei*	X		
9681	*Elaphria festivoides*		Festive midget	Maple
9684	*Elaphria grata*		Grateful midget	Clover, oaks, violets, dead leaves
9688	*Galgula partita*		The wedgling	Wood-sorrels
9690	*Condica videns*		White-spotted groundling	Asters, goldenrod
9725	*Striodes obtusa*		Obtuse yellow	

Subfamily - Cuculliinae

Code	Species		Common name	Host plants
9946	*Epiglaea decliva*		Sloping sallow	Blueberry, oaks, *Prunus* sp.
9950	*Chaetaglaea sericea*		Silky sallow	Oaks, chokeberry, wild black cherry
9952	*Eucirroedia pampina*		Scalloped sallow	Chokecherry, black cherry, oaks, poplars, maples
9957	*Sunira bicolorago*		Bicolored sallow	Seeds of elm, maple, poplar, willow, docks, cherry

Subfamily - Hadeninae

Code	Species		Common name	Host plants
10023	*Discestra trifolii*		Nutmeg (clover) cutworm	Many plants
10280	*Polia purpurissata*		Purple arches	Alders, blueberries, birches, others
10291	*Polia latex (morrisonia)*		Fluid arches	Beech, maples, elm, other broad-leaved trees
10292	*Melanchra adjuncta*		Hitched arches	Clovers, elms, maples, meadow-rue, plantains
10301	*Spirometra lutra*			Many plants
10316	*Hadena ectypa*	X		Starry campion
10317	*Anepia capsularis*		Capsule moth	Seed capsules of pinks
10368	*Lacinipolia meditata*		The thinker	Many herbaceous plants
10397	*Lacinipolia renigera*		Bristly cutworm moth	Many wild and cultivated plants

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Number	Species		Common name	Host plants
10405	*Lacinipolia lorea*		Bridled arches	Many plants
10431	*Faronta diffusa*		Wheat head armyworm moth	Grasses
10434	*Faronta rubripennis*	X	The pink streak	Grasses
10436.a	*Aletia oxygala luteopallens*			Grasses, sedges
10438	*Pseudaletia unipuncta*		The armyworm moth	Grasses, many plants
10447	*Leucania commoides*			Orchard grass
10459	*Leucania inermis*		Unarmed wainscot	Orchard grass
10462	*Leucania pseudargyria*		False wainscot	Grasses
10501	*Crocigrapha normani*		Norman's quaker	Apple, cherries, oaks, other trees
10518	*Achatia distincta*		Distinct quaker	Birch, oak, ash, maples, grapes
10524	*Nephelodes minians*		Bronzed cutworm moth	Grasses
10532	*Homorthodes furfurata*	X	Scurfy quaker	Maples
10552	*Protorthodes incincta*			Alfalfa beans, hickory, dandelion
10563	*Protorthodes oviduca*		Ruddy quaker	Dandelion, grasses, plantain, other low plants
10567	*Ulolonche culea*		Sheathed quaker	Red oak
10569	*Ulolonche modesta*	X		
10585	*Orthodes crenulata*		Rustic quaker	Grasses, willows, plantain
10587	*Orthodes cynica*		Cynica quaker	Plantain, dandelion, goldenrod
	Subfamily - Noctuinae			
10641	*Agrotis vetusta*		Old man dart	Many plants
10648	*Agrotis gladiaria*		Swordsman dart	Many wild and cultivated plants
10651	*Agrotis venerabilis*		Venerable dart	Many wild and cultivated plants
10670	*Feltia jaculifera*		Dingy cutworm moth	Asters, goldenrods, grasses, clover, other plants
10676	*Feltia herilis*		Master's dart	Many plants
10695	*Eucoptonemis tripars*	X	Fringed dart	
10698	*Trichosilia geniculata*		Knee-joint dart	
10698	*Trichosilia maniifesta*	X		

Number	Species	R-D	R-A	Common name	Host plant
10803	*Euxoa velleripennis*				
10831	*Euxoa niveilinea*	X			
10838	*Euxoa detersa*		X	Rubbed dart	Grasses
10878	*Loxagrotis albicosta*				
10891	*Ochropleura plecta*			Flame shouldered dart	Clovers
10926	*Spaelotis clandestina*			Clandestine dart	Many plants and trees
10943	*Xestia normaniana*			Norman's dart	Blueberries, raspberry, other plants
10944	*Xestia smithii*			Smith's dart	Wide variety of plants
10950	*Xestia bicarnea*			Pink-spotted dart	Many plants
10955	*Xestia badinodis*			Bent-lined dart	Chickweeds, dock
10998	*Choephora fungorum*			Pale-banded dart	Clover, dandelion, other plants
11029	*Abagrotis alternata*			Greater red dart	Various trees and shrubs

Family - Heliothinae

Number	Species	R-D	R-A	Common name	Host plant
11068	*Heliothis zea*			Corn earworm moth	Many plants
11071	*Heliothis virescens*			Tobacco budworm moth	Roses, nightshade sp.
11072	*Heliothis phloxiphagus*			Spotted straw	Asters, pholx, gumweed, strawberry
11117	*Schinia lynx*			Lynx flower moth	Erigeron
11128	*Schinia arcigera*			Arcigera flower moth	Asters
11135	*Schinia rivulosa*			Ragweed flower moth	Ragweed
11149	*Schinia trifascia*			Three-lined flower moth	False boneset, Joe-pye weed
11149	*Schinia nundina*			Goldenrod flower moth	Asters, goldenrod

Family - Hesperiidae

Number	Species	R-D	R-A	Common name	Host plant
3870	*Epargyreus clarus*			Silver-spotted skipper	Legumes
3947	*Erynnis juvenalis*			Juvenal's dusky wing	Oaks
3954	*Erynnis martialis*	X		Mottled dusky wing	*Ceanothus americanus*
4033	*Hesperia sassacus*		X	Indian skipper	*Andropogon* sp.
4251.a	*Lycaena phlaeas americana*			American copper	*Rumex*

Family - Papilionidae				
4159.a	*Papilo polyxenes asterius*		Eastern black swallowtail	Umbelliferae sp.
Family - Pierdae				
4197	*Artogeia rapae*		Cabbage white	Many mustard plants
4210	*Colias eurytheme*		Alfalfa butterfly	Various legumes
4224	*Zerene cesonia*		Dogface	Cassia, amorpha, clovers, other legumes
4237	*Eurema lisa*		Little sulfur	Cassia, senna
4248	*Nathalis iole*		Dainty sulfur	Asters, *Bidens*
Family - Lycaenidae				
4361	*Everes comyntas*		Eastern tailed blue	Flowers and seeds of many legumes
4363	*Celastrina ladon*		Spring azure	Sumac, spiraea, flowering dogwood, others
Family - Nymphalidae				
4432	*Nymphalis antiopa*		Mourning cloak	Willows, birch, cottonwood, elm, hackberry
4523	*Basilarchia archippus*		Viceroy	Willows
4434	*Vanessa virginiensis*		American painted lady	*Cirsium* sp., pussytoes, pearly everlasting
4437	*Vanessa atalanta*		Red admiral	Nettles, pelliory
4440	*Junonia coenia*		Buckeye	Snapdragon, toadflax, plantain, ruellia, false foxglove
4450	*Speyeria cybele*		Great spangled fritillary	Violets
4451	*Speyeria aphrodite*	X	Aphrodite fritillary	Violets
4452	*Speyeria idalia*	X	Regal fritillary	Violets
4481	*Phyciodes tharos*		Pearl crescent	Asters
4578	*Megisto cymela*		Little wood satyr	Grasses
4587	*Cercyonis pegala*		Common wood nymph	Purpletop and other grasses
4614	*Danaus plexippus*		Monarch	Common milkweed

R-D = Remnant Dependent
R-A = Remnant Associate

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Table 2. New Species Identified between July 2007 -- June 2008

Hodge's #	FAMILY/SPECIES	R-D*	R-A**	CATEGORY	HOST PLANTS
	Family -- Gracillariidae				
620	*Caloptilia packardella*				
	Family -- Cosmopterigidae				
1469	*Cosmopterix nitens*				
	Family -- Oecophoridae				
951	**Machimia tentoriferella**				
1864	**Pseudochelaria walsinghami**				
	Family -- Gelechiidae				
1986	*Gnorimoschema galluesolidaginis*				
	Family - Tortricidae				
2767	Apotomis infida				
2772	*Phaecasiophora niveiguttana*				
2927	*Phaneta ochrocephala*				
3227	*Gypsonoma substitutionis*				
3597	*Argyrotaenia velutinana*				
3633	*Choristoneeura parallela*				
3635	*Choristoneeura rosaceana*			Prunis serotina	
3655	*Archips fervidana*				
3672	*Syndemis afflictana*				

R-D = Remnant Dependent
R-A = Remnant Associate

1

Number	Species	Common name	Host plant
3695	*Sparganothis sulfureana*		
3696	*Sparganothis* near *belfrageana*		

Subfamily – Limacodidae

Number	Species	Common name	Host plant
4652	*Tortricidia testacea*		Beeches, birches, black cherry, Oaks,
4659	*Packardia geminata*		Oaks
4667	*Apoda y-inversum*		Oaks
4681	*Isa textula*		Various trees and shrubs
4685	*Adoneta spinuloides*		Various trees and shrubs
4699	*Parsa indetermina*	**Stinging rose caterpillar moth**	Rose, oaks, poplars, maples

Subfamily – Pyraustinae

Number	Species	Common name	Host plant
5060	*Pyrausta subsequalis*		
5034	*Pyrausta signatalis*		
5036	*Pyrausta inveterascalis*		
5159	*Desmia funeralis*	**Grape leaf-folder moth**	Evening primrose
5176	*Anageshna primordialis*		
5280	*Herpetogramma aeglealis*		
5334	*Prionapteryx achatina*		
5357	*Crambus leachellus*		
5361	*Crambus albellus*		Grasses, other low plants
5394	*Platyes vobisne*		
5403	*Agriphila vulgivagella*		
5420	*Microcrambus elegans*		
5439	*Thaumatopsis pexella*		
5464	*Urola nivalis*		

R-D = Remnant Dependent
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5466	*Vaxi critica*			
5524	*Hypsopygia costalis*		Clover hayworm moth	Stored hay
5566	*Arta statalis*			
	Epipaschia sp.			
5657	*Acrobasis minimella*			
5773	*Salebriaria engeli*			
	Quasisalebria atratella			
5796	*Nephopterix subcaesiella*		Larva ties together and eats dead leaves of boxwood	
5799	*Nephopterix basilaris*			
6024	*Bandera binotella*			
6048	*Peoria gemmatella*		Larva ties together and eats dead leaves of boxwood	

Family - Saturniidae

7730	*Hemileuca maia*	x	Buck Moth	Oak, Scrub oak

Family - Notodontidae

8022	*Hyparpax aurora*	X	Pink prominent	Scrub oak, viburnums

Family - Arctiidae

8188	*Apantesis figurata*		Figured tiger moth	*Dandelion, Plantain, other plants*
8262	*Ctenucha virginica*		Virginia ctenucha	Grasses, Irises, sedges

R-D = Remnant Dependent

R-A = Remnant Associate

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Family - Noctuidae				
Subfamily - Herminiinae				
8351	*Zanclognatha cruralis*		Early zanclonatha	Dead leaves
Subfamily - Catocalinae				
8695	*Zale undularis*		Black zale	Black and honey locust
8764	*Ptichodis anilis*			
8769	*Spiloloma lunilinea*		Moon-lined moth	Honey locust
Subfamily - Acontiinae				
9062	*Cerma cerintha*		Tufted-bird dropping moth	Plants in rose family
Subfamily - Acronictinae				
9301	*Eudryas grata*		Beautiful wood nymph	Buttonbush, grapes, Virginia creeper
Subfamily - Amphipyrinae				
9485	*Papaipema baptisiae*			Dogbane, baptisiae, cacalia
9680	*Elaphria georgei*	X		
Subfamily - Hadeninae				
10292	*Melanchra adjuncta*		Hitched arches	Clovers, elms, meadow-rue, plantains

R-D = Remnant Dependent
R-A = Remnant Associate

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Family - Heliothinae			
11135	*Schinia rivulosa*	Ragweed flower moth	Ragweed
11149	*Schinia nundina*	Goldenrod flower moth	Asters, goldenrod
Family - Hesperiidae			
3947	*Erynnis juvenalis*	Juvenal's dusky wing	Oaks
Family - Pierdae			
4224	*Zerene cesonia*	Dogface	Cassia, amorpha, clovers, other legumes
4237	*Eurema lisa*	Little sulfur	Cassia, senna
Family - Nymphalidae			
4450	*Speyeria cybele*	Great spangled fritillary	Violets
4578	*Megisto cymela*	Little wood satyr	Grasses

R-D = Remnant Dependent
R-A = Remnant Associate

September 30, 2008

Kathy Barker
Office of Resource Conservation
Illinois Department of Natural Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

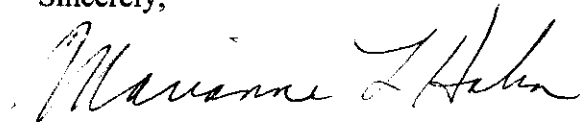Ref: Wildlife Preservation Grant #08-017W

Dear Ms. Barker:

   I received last week a list from Mr. George Derkovitz of 100 leafhoppers that were identified by Dr. Ron Panzer. A copy of the list is enclosed.
   Also enclosed is a copy of the press release that was sent to local papers. I believe that this now completes the requirements for this grant.
   Thank you for being very accommodating.

                                        Sincerely,

                                        Marianne L. Hahn

Table 1. Leafhoppers, planthoppers, froghoppers and treehoppers recorded at Sweetfern Savanna in 2006 2007.

Taxon	Host plants	rarity coefficients*
Acanaloniidae		
Acanalonia bivitatta		
Cercopidae		
Lepyronia quadrangularis		
Philaenus spumarius		
Cicadellidae		
Acinopterus acuminatus		
Agallia constricta		
Agallia quadripunctata		
Aligia modesta	Heaths and/or Oaks	3
Amblysellus curtisii		
Amplicephalus osborni	sedges,	
Arthaldeus pascuellus		
Athysanus argentarius		
Bandara curvata		
Ceratagallia sanguinolenta		
Chlorotettix spatulatus	*Andropogon scoparius*	1
Chlorotettix tergatus		
Chlorotettix unicolor		
Colladonus clitellarius		
Deltocephalus flavicosatalus (flavicostus)		
Deltocephalus balli	Sedges	
Diploclenus (Latalus) configuratus		
Draeculacephala (portola) paludosa		
Draeculacephala (prasina) noveboracensis		
Draeculacephala robinsoni		
Endria (Amplicephalus) inimica		
Eutettix luridus (?)	*Quercus*	
Exitianus obscurinervis		
Extrusanus oryssus (Euscelis extrusus)		1
Flexamia areolata	*Eragrostis spectabilis*	3
Flexamia delongi	*Andropogon scoparius*	3
Graminella aureovittata	*Panicum virgatum*	1
Graminella fitchii	*Leersia*	
Graminella nigrifrons		
Graphocephala coccinea		
Gyponana ortha		
Gyponana turbina		
Hecalus flavidus	native grasses	2
Hecalus viridis	native grasses	
Idiocerus varians		
Idiodonus kennicotti		
Iowanus borrori		
Jassus olitorius		
Laevicephalus melsheimerii	*Danthonia*	
Latalus missellus [Latalus personatus]		
Latalus sayi		

1

Table 1. Leafhoppers, planthoppers, froghoppers and treehoppers recorded at Sweetfern Savanna in 2006 2007.

Taxon	Host plants	rarity coefficients*
Limotettix (Ophiola) osborni	composites	
Limotettix ferganensis (striolus)	*Eleocharis*	
Macropsis basalis	*P. tremuloides*	
Macrosteles fascifrons	sedges	
Menosoma cincta		
Mesamia nigridorsum	*Helianthus*	1
Neokolla (Gothica) hieroglyphica		
Norvellina seminuda		
Osbornellus consors		
Osbornellus jucundus		
Paraphlepsius collitus		
Paraphlepsius fulvidorsum		
Paraphlepsius irroratus		
Paraphlepsius electus		5
Paraphlepsius lobatus	*Andropogon scoparius*	1
Paraphlepsius maculosus		5
Paraphlepsius truncatus		
Paraphlepsius tullahomi [Pandarus stipatus]	grasses	
Platymetopius vitellinus		
Plesiommata tripunctata	Muhlenbergia in wooded areas	
Polyamia caperata	*Andropogon*	1
Polyamia apicata		
Polyamia compacta		3
Polyamia weedi		
Ponana rubida		
Prescottia lobata		
Prescotia nodatus		
Psammotettix knullae(feratus)/striatus	*Hordeum*	
Rugosana querci		
Sanctanus cruciatus		
Scaphoideus curvatus		
Scaphoideus tergatus	*Ulmus*	
Scaphoideus titanus		
Scaphytopius acutus		
Scaphytopius argutus (lanceus) (hastus)		
Scaphytopius frontalis		
Stirellus bicolor		
Tylozygus (Kolla) bifida		
Xestocephalus superbus		
Achilidae		
Catonia cinctifrons		
Catonia carolina/lunata		
Catonia nava		
Catonia pumila		
Synecdoche impunctata		
Cixiidae		
Cixius basalis		

Table 1. Leafhoppers, planthoppers, froghoppers and treehoppers recorded at Sweetfern Savanna in 2006 2007.

Taxon	Host plants	rarity coefficients*
Delphacidae		
Javesella (Delphacodes) pellucida	grasses	
Liburniella ornata		
Stenocranus sp.		
Derbidae		
Derbida syntames		
Derbida uhleria		
Cedusa sp.		
Dictyopharidae		
Scolops sulcipes		
Flatidae		
Anormenis septentrionalis		
Metcalfa pruinosa		
Issidae (Caliscelidae)		
Bruchomorpha oculata		3
Membracidae		
Micrutalis calva		

* Restoration sites must ultimately be assessed in terms of their contributions to the protection of imperiled species. To facilitate this assessment, each r-d species has been assigned an objective 'rarity coefficient' reflective of its local, and, in some cases, regional rarity (see http://www.neiu.edu/~cwinsect/).

KANKAKEE SANDS INSECT STUDY COMPLETED

Between the months of April and October, for the past two years, George Derkovitz has been hauling generators, lamps, buckets, sheets, nets, and other necessary items into the oak savannas and grasslands in southeastern Kankakee County. George's passion is finding and identifying butterflies and moths.

George arrives at selected spots well before dark to set up his equipment and search for daytime flying butterflies and leafhoppers. George saves the leafhoppers for his friend, Dr. Ron Panzer, an expert in leafhopper identification. George also examines some of the rare plants for the caterpillars that will later hatch into winged adults. Then, as the sun sets, he starts the generators that power bright lights aimed at white sheets suspended from special frames. Insects attracted by the light soon cover the sheets.

He quickly identifies the common ones. Those that require more study are captured so he can take the time to consult reference books and photos in his personal collection to confirm his identification. Captured insects that are rare will be preserved for public use at the Illinois Natural History Survey in Champaign, Illinois.

During the period of the study, George found and identified 281 different wild moth species and 25 species of butterflies at Sweet Fern Savanna Land and Water Reserve. Twenty-seven of these insect species are only found in the rare natural areas that remain in the state, and two have never been found before in Illinois. Additionally, 100 different leafhopper species were identified.

This project was supported by a grant from the Illinois Wildlife Preservation Fund, which is one of the check offs on the Illinois income tax form.

--end--