

100602
Line# 90
10/26/10

**Village of Lombard
Recycling Education Grant Program
APPLICATION**

Part 1-General Information

Name of Institution: Glenbard East High School
Address: 1014 S. Main St., Lombard, IL 60148
Name and title of person to contact: David A. Krodel-ecology/field biology teacher
Number of students: 28
Number of students residing in incorporated Lombard (estimate): 14

Part 2-Amount Requested and Project Description

- a. Amount of grant requested: \$350
- b. How many students will the grant funds help educate? 28
- c. Has the institution received prior grant money from the Village of Lombard? Yes
- d. Description of proposed project-See attached
- e. Description of items requested and costs-See attached

Part 3-Current Program (Recycling, Environment, Conservation)

- a. Has your institution earned the Earth Flag? Yes
- b. Does your institution have an environmental club? Yes
- c. How many students participate in recycling/environmental/conservation efforts? 60
- d. How many students are being taught about recycling/environment/conservation? 2600
- e. How are environmental programs emphasized in your classes? See attached
- f. Current recycling/environmental/conservation program and past accomplishments-See attached

OCT 15 2010

2d-Proposed Project Description

Proposal

My plan is to continue to facilitate an existing prairie restoration effort at Glenbard East High School where I currently teach Field Biology/Ecology. As part of a service learning component of the class known as "Eco-Action," students currently volunteer their time to rehabilitate a restoration site on the school grounds. **The requested sum of money would be used to advance this effort through the purchase of native prairie plugs (plants) that would be planted at the site in spring.**

This project will promote learning about the environment in several ways. The first is through the actual restoration effort, which involves continual maintenance of the site. Planting and weeding are continually being done in the spring and fall in order to maximize attempts at returning this site to a native tall grass prairie ecosystem so students become familiar with the concept and practice of ecological restoration. Secondly, students also use the site for biodiversity analyses, which are utilized for assessing environmental quality of varying ecosystems. Techniques for assessing biodiversity are taught to students at the restoration site and are later utilized for comparative purposes in other field studies. Practicing these techniques on restored habitats on school grounds provides students with skills to use them in subsequent field studies and also provides valuable data that can be used to monitor yearly progress of the prairie restoration effort.

This project fits into the present curriculum in many ways. The aforementioned biodiversity analysis for assessing environmental quality is the primary curricular focus, but there are others. "Eco-Action" is the service learning component of the course I teach. Students are required to do a minimum of two hours of community service that is environmentally related each quarter, and they choose from several options how they will fulfill this commitment. One way is through work on the prairie restoration effort. Another curricular connection focuses on the investigation of the relationship between insects and their pollination habits concerning different types of flowering plants, many of which we observe directly in the prairie during the summer and fall months. Finally, students are also engaged in a unit of study that centers on biomes of North America. One of the predominant areas of focus is the ecology of the Midwestern tall grass prairie, which students are able to experience firsthand via the restoration effort at Glenbard East High School.

The restoration effort is also involved in environmental education and outreach. In Spring of 2008 a new sign designed by students was put in at the site entrance to inform others about the restoration effort. Public service announcements by students and articles in the school paper have also helped to raise attention about the prairie. Articles and photos in local newspapers have informed others in the surrounding community about what the restoration is about and why it is important. Flags showing locations of recent plantings and study areas within the site provide visual evidence that the site is actively monitored and used. Purchased plugs bought with Lombard Recycling Grant funds would advance efforts to show the school and surrounding communities that continual progress is being made in the restoration effort as more native plants are planted at the site, thereby exemplifying ideas of restoring native biodiversity, conserving natural resources, and making environmentally responsible land-use decisions.

2e-Requested Items and Costs

An accompanying sheet regarding costs of specific prairie plugs is attached along with a copy of last year's order. I hope this will provide sufficient information for how funds obtained through the Recycling Grant would be spent.

There are limited numbers of vendors who sell quality native plantings for reasonable prices and that are locally based. Vendors that I have referenced on past occasions include Prairie Moon Nursery in Winona, Minnesota, and Natural Gardens located in St. Charles, Illinois. While both of these vendors seem to have quality products, they are consistently more expensive both in the plugs they sell and because of their location. Also, both vendors are legitimate businesses who sell their respective prairie plants for profit, while also doing their part to educate clients on the benefits of and practices related to native plant restoration.

Upon the advice of retired colleague, Christine Schwarz, I initially investigated the Schaumburg Garden Club as my source for the purchase of prairie plugs in 2008. At present prices are still more competitive (they remain largely unchanged in the last three years) on average than those offered by the aforementioned vendors, and the proceeds of the Garden Club's sales are directed to non-profit and volunteer environmental initiatives with which they are involved. The Club itself is a non-profit entity staffed by volunteers. The local location, ordering, pick-up, and knowledge base of the volunteers make the purchase of the prairie plugs incredibly easy, and I know that the funds used to purchase the plants will go to advance environmental restoration causes with which the Schaumburg Garden Club is affiliated. For these reasons it would be my preference to use funds from the Recycling Grant to purchase native plants from the Schaumburg Garden Club as opposed to other vendors.

3e-Environmental Programs In My Classes

There are several ways in which environmental programs are emphasized in the classes I teach. Most of these manifest themselves in the aforementioned Eco-Action part of the ecology/field biology class I teach, most notably in efforts like the Glenbard East High School prairie restoration effort. For students who are not able to satisfy their community service component of the class working on the prairie restoration, they can choose to partake in any one of the numerous volunteer opportunities put forth by the DuPage County Forest Preserve District. Each weekend the DCFPD has multiple sites where seed collecting, brush removal, and weeding are in need of being done. Also, students will offer their volunteer services at SCARCE in Glen Ellyn, Illinois, helping either with book reorganizing or the Nike Shoe Drive. Finally, students in last year's physical science participated in the DuPage County Green Design Challenge, in which students throughout the county built three-dimensional models of Green Design homes and entered them in a one day exposition in which the students were able to explain to viewers aspects of Green Design and how it could be incorporated into local homes and businesses.

3f-Current Recycling/Environmental/Conservation Program

The current recycling, environmental, and conservation program at Glenbard East High School features several positive aspects and past accomplishments. For example, the Environmental Club earned two Earth Flags from SCARCE for developing and implementing a school-wide recycling program years ago. The students in Environmental Club also currently participate in service projects, such as making large crayons for SCARCE, which in turn donates the crayons to schools and programs that have students with special needs.

Many of the students in the ecology/field biology class have also contributed to the recycling, environmental, and conservation program at Glenbard East. One such contribution is the student involvement in the aforementioned prairie restoration effort as well as other school beautification projects. Students in the ecology class have also participated in community efforts to improve the environment as well. The aforementioned work at SCARCE doing book reorganization or helping with the Nike Shoe Drive are two examples, but students in ecology/field biology also take part in other types of recycling/environmental/conservation work such as the Lombard Recycling Extravaganza. Each year during this event, several students from the Village of Lombard and Glendale Heights volunteer two hours of their time to help with the organization and transport of materials being donated.

Another positive stride that the Environmental Club has initiated at Glenbard East High School has been to revitalize the once stagnant recycling program. Now all classrooms and office complexes have recycling containers, and a systematic disposal and collection program has been put in place. The effort has provided a positive opportunity to reeducate students and staff on the benefits of recycling, and it is helping the school to save on its waste disposal bill by not sending recyclable items to landfills. The Environmental Club also worked with school administrators and building maintenance staff to develop a collection plan that would have minimal disruption to the school day by having the pick-up done right before morning announcements and only in certain parts of the building on agreed upon days. This work by the Environmental Club also led to having a more organized collection effort for recyclables after the end of year locker cleanout event. Through concerted efforts like these, Glenbard East High School is demonstrating a commitment to environmental sustainability and the promotion of a future that benefits not only the school, but the larger community as well.

2010 Native Plant Sale

ORDER FORM PAGE 1

Name: David Kroedel
 Street: 1014 S. Main St.
 City: Lombard State: IL Zip: 60148
 Email: David.Kroedel@lombard.org

Daytime Telephone: [REDACTED]
 Evening Telephone: [REDACTED]
 Is this the first time you've ordered with us? Y N
 *** PREORDER DEADLINE IS APRIL 19, 2010 ***

PRAIRIE PLANTS - PLUGS				
#	Qty	Name	Price	Total
5	6	Nodding Pink Onion (Allium cernuum)	3.00	18.-
10	6	Leadplant (Amorpha canescens)	3.00	18.-
20		Wild Columbine (Aquilegia canadensis)	3.00	
25		Marsh Milkweed (Asclepias incarnata)	3.00	
30	6	Butterfly Weed (Asclepias tuberosa)	3.00	18.-
35		Smooth Blue Aster (Aster laevis)	3.00	
40	5	New England Aster (Aster novae-angliae)	3.00	15.-
45		White Aster (Aster ptarmicoides)	3.00	
*47		Blue Wild Indigo (Baptisia australis)	3.00	
48	6	White Wild Indigo (Baptisia leucantha)	3.00	18.-
50		Harebell (Campanula rotundifolia)	3.00	
60		Turtlehead (Chelone glabra)	3.00	
65	6	Prairie Coreopsis (Coreopsis palmata)	3.00	18.-
70		Shooting Star (Dodecathlon meadia)	4.00	
75		Pale Purple Coneflower (Echinacea pallida)	3.00	
80		Purple Coneflower (Echinacea purpurea)	3.00	
83	6	Rattlesnake Master (Eryngium yuccifolium)	3.00	18.-
85	6	Joe Pyeweed (Eupatorium maculatum)	3.00	18.-
95		Queen of the Prairie (Filipendula rubra)	3.00	
100		Bottle Gentian (Gentiana andrewsii)	3.00	
105	5	Prairie Smoke (Geum triflorum)	3.00	15.-
108		Dogtooth Daisy (Helenium autumnale)	3.00	
110		Ox Eye Sunflower (Heliopsis helianthoides)	3.00	
115		Prarie Alumroot (Heuchera Richardsonii)	3.00	
*117		Swamp Rose Mallow (Hibiscus palustris)	3.00	
120		Blue Flag Iris (Iris virginica shrevei)	3.00	
125	6	Rough Blazing Star (Liatris aspera)	3.00	18.-
131		Meadow Blazing Star (Liatris ligulistylis)	3.00	
135		Prairie Blazing Star (Liatris pycnostachya)	3.00	
145		Cardinal Flower (Lobelia cardinalis)	3.00	
150	6	Great Lobelia (Lobelia siphilitica)	3.00	18.-
155		Monkey Flower (Mimulus ringens)	3.00	
160	6	Wild Bergamot (Monarda fistulosa)	3.00	18.-
175	5	Foxglove Beard Tongue (Penstemon digitalis)	3.00	15.-
185		Purple Prairie Clover (Petalostemum purpureum)	3.00	
195		Obedient Plant (Physostegia virginiana)	3.00	

PRAIRIE PLANTS - PLUGS (continued)				
#	Qty	Name	Price	Total
208	5	Common Mountain Mint (Pycnanthemum virginianum)	3.00	15.-
210		Yellow Coneflower (Ratibida pinnata)	3.00	
215		Black-Eyed Susan (Rudbeckia hirta)	3.00	
220		Sweet Black-Eyed Susan (Rudbeckia subtomentosa)	3.00	
225		Wild Petunia (Ruellia humilis)	3.00	
230		Royal Catchfly (Silene regia)	3.00	
233		White Blue-Eyed Grass (Sisyrinchium albidum)	3.00	
250		Showy Goldenrod (Solidago speciosa)	3.00	
253		Purple Meadow Rue (Thalictrum dasycarpum)	3.00	
255	6	Spiderwort (Tradescantia ohioensis)	3.00	18.-
270	6	Culvers Root (Veronicastrum virginicum)	3.00	18.-
277		Prairie Violet (Viola pedatifida)	3.00	

WOODLAND WILDFLOWERS - PLUGS				
#	Qty	Name	Price	Total
360		White Snakeroot (Eupatorium rugosum)	3.00	
365		Wild Geranium (Geranium maculatum)	3.00	
400		Blue Woodland Phlox (Phlox divaricata)	3.00	
410		Jacob's Ladder (Polemonium reptans)	3.00	

GRASSES/SEDGES - PLUGS				
#	Qty	Name	Price	Total
595	6	Big Blue Stem (Andropogon gerardii)	3.00	18.-
610		Pennsylvania Sedge (Carex pensylvanica)	4.00	
615		Brown Fox Sedge (Carex vulpinoidea)	3.00	
622		June Grass (Koeleria cristata)	3.00	
625	6	Switch Grass (Panicum virgatum)	3.00	18.-
630		Little Bluestem (Schizachyrium scoparium)	3.00	
635	6	Indian Grass (Sorghastrum nutans)	3.00	18.-
640	6	Prairie Dropseed (Sporobolus heterolepis)	3.00	18.-

SUB - TOTAL PAGE 1 \$348.-

* - New plants for 2010
 18 x 16 = 288
 15 x 4 = 60

\$348

2010 Native Plant Sale ORDER FORM PAGE 2

WOODLAND WILDFLOWERS - 4 1/2" POTS

#	Qty	Name	Price	Total
300		White Baneberry (<i>Actaea pachypoda</i>)	4.00	
305		Rue Anemone (<i>Anemone thalictroides</i>)	4.00	
315		Jack in the Pulpit (<i>Arisaema triphyllum</i>)	4.00	
320		Wild Ginger (<i>Asarum canadense</i>)	4.00	
325		Marsh Marigold (<i>Caltha palustris</i>)	5.00	
330		Black Cohosh (<i>Cimicifuga racemosa</i>)	4.00	
370		Sharp Loned Hepatica (<i>Hepatica acutiloba</i>)	4.00	
375		Crested Iris (<i>Iris cristata</i>)	4.00	
390		Virginia Bluebells (<i>Mertensia virginica</i>)	4.00	
405		May Apple (<i>Podophyllum peltatum</i>)	4.00	
415		Solomon's Seal (<i>Polygonatum biflorum</i>)	4.00	
420		Bloodroot (<i>Sanguinaria canadensis</i>)	4.00	
430		False Solomon's Seal (<i>Smilacina racemosa</i>)	4.00	
*432		Indian Pink (<i>Spigelia marilandica</i>)	6.00	
435		Celandine Poppy (<i>Stylophorum diphyllum</i>)	4.00	
440		Foam Flower (<i>Tiarella cordifolia</i>)	4.00	
445		Great White Trillium (<i>Trillium grandiflorum</i>)	5.00	
450		Yellow Trillium (<i>Trillium luteum</i>)	5.00	
460		Big Merrybells (<i>Uvularia grandiflora</i>)	4.00	

FERNS - 4 1/2" POTS

#	Qty	Name	Price	Total
500		Maidenhair Fern (<i>Adiantum pendulum</i>)	5.00	
504		Ghost Fern (<i>Athyrium x ghost</i>)	5.00	
505		Lady Fern (<i>Athyrium felix femina</i>)	5.00	
506		Japanese Painted Fern (<i>Athyrium niponicum pictum</i>)	5.00	
509		Goldie's Wood Fern (<i>Dryopteris goldiana</i>)	5.00	
510		Leather Wood Fern (<i>Dryopteris marginalis</i>)	5.00	
515		Cinnamon Fern (<i>Osmunda cinnamomea</i>)	5.00	
520		Royal Fern (<i>Osmunda regalis</i>)	5.00	

PRAIRIE PLANTS AND VINES - 4 1/2" POTS

#	Qty	Name	Price	Total
49		Poppy Mallow (<i>Callirhoe involucrata</i>)	4.00	
235		Blue-Eyed Grass (<i>Sisyrinchium campestre</i>)	4.00	
*251		Meadowsweet (Shrub) (<i>Spiraea alba</i>)	4.00	
275		Birdsfoot Violet (<i>Viola pedata</i>)	4.00	
695		Kiwi Vine Artic Beauty (<i>Actinidia kolomikta</i> (male))	6.00	
697		Chocolate Vine (<i>Akebia quinata</i>)	6.00	
*698		Dutchman's Pipe Vine (<i>Aristolochia durior</i>)	6.00	
700		Trumpet Vine - Orange (<i>Campsis radicans</i>)	4.00	
701		Trumpet Vine - Yellow (<i>Campsis radicans flava</i>)	4.00	
*705		Virgin's Bower Vine (<i>Clematis virginiana</i>)	4.00	

SHRUBS - 5 GALLON CONTAINER

#	Qty	Name	Price	Total
749		Red Chokeberry (<i>Aronia arbutifolia</i>)	22.00	
750		Black Chokeberry (<i>Aronia melanocarpa</i>)	22.00	
755		Red Osier Dogwood (<i>Cornus stolonifera</i>)	22.00	
756		Pagoda Dogwood (<i>Cornus alternifolia</i>)	22.00	
*758		Dwarf Bush Honeysuckle (<i>Lonicera</i>)	22.00	
761		American Filbert (<i>Corylus americana</i>)	22.00	
765		Smooth Hydrangea (<i>Hydrangea arborescens</i>)	22.00	
785		Arrow Wood (<i>Viburnum dentatum</i>)	22.00	
787		Withered Viburnum (<i>Viburnum cassinoides</i>)	22.00	

TREES - 5 GALLON CONTAINER

#	Qty	Name	Price	Total
795		Serviceberry (<i>Amelanchier arborea</i>)	22.00	
799		Heirloom Peony (Circle Your Choice) Red Pink White Single or Double	15.00	
M		Spring Valley Barnyard Manure Compost 40lb Bag	4.00	

SUB - TOTAL PAGE 2

Questions??? Need Advice???
Contact Schaumburg Community Garden Club at:
Email: schgarden@yahoo.com
Voicemail: 847-706-6767

View plants online at: www.schaumburggardenclub.com

*** \$15 MINIMUM ORDER ***
*** PREORDER DEADLINE IS APRIL 19, 2010 ***

* - New plants for 2010

2010 Native Plant Sale ORDER FORM PAGE 3

NON-NATIVE PERENNIALS 4 1/2" POTS

#	Qty	Name	Price	Total
*803		Bugleweed Party Colors (Ajuga)	4.00	
804		Sandwort (Arenaria)	4.00	
806		Monks Hood (Aconitum napellus)	4.00	
*807		Goat's Beard (Aruncus dioicus)	4.00	
808		Thrift (Armeria maritime Bloodstone)	4.00	
809		Lady in Black (Aster lateriflorus)	4.00	
810		Astilbe Pumila (Astilbe chinensis)	4.00	
*815		Astilbe Gult (Astilbe arendsii glow)	4.00	
*819		Astilbe Purple Candles (Astilbe chinensis purpurkerze)	4.00	
*820		Astilbe Key West (Astilbe simplifolia)	4.00	
*821		Saxifrage Wintergult (Bergenia Wintergult)	5.00	
822		False Forget Me Not (Brunnera macrophylla)	6.00	
825		Reed Grass Karl Foerster (Calamagrostis acutiflora Karl Foerster)	4.00	
830		Yellow Ice Plant (Dracocephalum)	4.00	
*831		Dragonhead Fuji Blue (Dracocephalum)	4.00	
837		Blanket Flower 'Fanfare' (Gaillardia fanfare)	6.00	
839		Hellebore (Helleborus foetidus)	6.00	
*840		Rose Mallow (Hibiscus moscheutos)	4.00	
*841		Coral Bells Snow Angles (Heuchera sanguinea Snow Angel)	5.00	
845		Lavender Munstead (Lavandula angustifolia, 'Munstead')	4.00	
846		Edelweiss (Leontopodium alpinum)	4.00	
848		Shasta Daisy, Frilly Double (Leucanthemum agai)	4.00	
*849		Golden-Ray Dark Beauty (Ligularia dentate Dark Beauty)	5.00	
850		Missouri Primrose (Oenothera missouriensis)	4.00	
855		Russian Sage (Perovskia atriplicifolia)	4.00	
*856		Primrose Miller's Crimson (Primula japonica Miller's)	4.00	
857		Balloon Flower Hakone Blue (Platycodon, grandiflorus Hakone Blue)	4.00	
858		Balloon Flower Dwarf (Platycodon, 'Sentimental Blue')	5.00	
*859		Lungwort Mrs. Moon (Pulmonaria saccharate)	5.00	
860		European Pasque Flower (Pulsatilla vulgaris)	4.00	
*861		Feather Leaf Rodgersia (Rodgersia pinnata)	6.00	
863		Scotch Moss (Sagina subulata aurea)	4.00	
869		Hen & Chicks (Sempervivum Mixed Species)	4.00	
870		Hen & Chicks (Sempervivum tectorum Red Varieties)	4.00	
875		Stokes' Aster (Stokesia laevis Peachie's Pick)	5.00	

NON-NATIVE PERENNIALS 4 1/2" POTS (continued)

#	Qty	Name	Price	Total
882		Mother of Thyme (Thymus serpyllum)	4.00	
883		Red Creeping Thyme (Thymus serpyllum coccineus)	4.00	

CULINARY HERBS IN POTS

#	Qty	Name	Price	Total
900		Chives (Allium schoenoprasum)	3.00	
903		Lemon Verbena (Aloysia triphylla, Libbia citriodora)	3.00	
905		Dill, 'Bouquet' (Anethum graveolens)	3.00	
910		Tarragon, French (Artemisia dracunculus)	3.00	
915		Cilantro/Coriander (Coriandrum sativum)	3.00	
920		Bay Laurel (Laurus nobilis)	8.00	
*923		Basil, African Blue (Ocimum African Blue)	3.00	
925		Basil, Sweet (Ocimum basilicum)	3.00	
930		Basil, Variegated (Ocimum pesto perpetuo)	3.00	
935		Oregano, Greek (Origanum heracleoticum)	3.00	
945		Parsley, Plain Italian (Petroselinium crispum neapolitanum)	3.00	
955		Rosemary (Rosmarinus officinalis)	3.00	
965		Sage, Pineapple (Salvia elegans)	3.00	
970		Sage, Garden (Salvia officinalis)	3.00	
980		Sugarplant, Sweetleaf (Stevia rebaudiana)	3.00	
990		Thyme, English (Thymus vulgaris)	3.00	
995		Thyme, Lemon Variegated (Thymus x citriodorus aurea- variegatus)	3.00	

SUB - TOTAL PAGE 3

- 0 -

SUB - TOTAL PAGE 1

\$348.-

SUB - TOTAL PAGE 2

- 0 -

SUB - TOTAL PAGE 3

- 0 -

TOTAL

\$348.-

***** \$15 MINIMUM ORDER *****

***** PREORDER DEADLINE IS APRIL 19, 2010 *****

MAKE CHECK PAYABLE TO:
Schaumburg Community Garden Club

MAIL ORDER TO:
Spring Valley Nature Center
1111 E. Schaumburg Rd.
Schaumburg, IL 60194
847-985-2100

View plants online at: www.schaumburggardenclub.com

*** - New plants for 2010**