

2010 FFA Landscape Design Career Development Event
Supplemental Information

1. Type of House: This home is being built by Habitat for Humanity and is a four bedroom, one floor modified ranch style.
2. Lot: The property measures 75 feet across and 150 feet from front to back but is an irregular shape. It is nearly level. The house is on a corner lot on the corner of Blue Road and Gold Way. There is also a detached one car garage. The front of the home faces south.
3. Family: The family who will reside in this home consists of a mother, Mrs. Chase, who works fulltime, an 11 year old son and a 9 year old daughter. In addition Mrs. Chase's mother, Mrs. Fox, will also live in this house. There is no current landscaping other than a lawn. The floor plan is shown on page 7 of this document.
 - Habitat for Humanity has received a donation of \$20,000 to apply to the landscaping and all the installation will be done using volunteers.
 - Habitat for Humanity wants to encourage a "green" life style and for the landscape they prefer to incorporate native plants (except for plants used in the vegetable garden) as much as possible and are sensitive to environmental issues and water conservation. Invasive plants must not be used.
4. Scope of the work:
 - A. The homeowners are interested in creating areas within the backyard which could be used for different purposes and are especially interested in a vegetable garden to help them save some money by growing some of their own produce. Plants should be selected which are low maintenance and drought tolerant. As much as possible an effort should be made to use deer resistant plants. See the included list of suggested deer resistant plants for plant suggestions. Note that the deer problem can also be managed by the use of repellants or fencing if specified as part of the plan. Walkways from the driveway and garage to the house are also needed and it would be nice to have some outdoor entertaining space.
 - B. The soil is mostly a sandy loam.
 - C. Topsoil is about 6 inches deep with a pH of 6.
 - D. The entire lot should be considered when preparing this design, including the front yard, side yards, backyard, and perimeter of the property.
5. Project Requirements:

Finished projects may be hand rendered or developed using a CAD program but all projects must meet the following criteria:

 - A. All drawings should be submitted on 24" by 36" sheets of good quality tracing paper or vellum. Plan view drawing of the finished project is required. Color, Imaging, or Elevation drawings will not be judged.
 - B. The finished scale should be 1" equals 8'. (note this is a change from previous years)**

- C. Students are required to use standard, commonly recognized symbols for plants
- D. All students are required to submit a list of wholesale costs (see page 4 for instructions). Wholesale costs must not exceed \$20,000 (see #3 above)
- E. Symbols used should be representative of accepted professional drawing practices.
 - Plant symbols should be drawn representing plants in scale at reasonable mature sizes. It is recommended that a reference such as The Manual of Woody Plants, Michael Dirr be used in determining plant spread (width). Nursery wholesale price books may also contain helpful size information. For example, in the Manual of Woody Plants, *Cornus kousa* is shown at a spread equal to its height of 20 – 30 feet. A reasonable mature size to represent this tree would be 10 to 15 feet or approximately one-half to two-thirds the spread listed. A shrub which grows quickly would be more accurately represented at 2/3 of its mature spread, while a slow growing tree or shrub could be represented at 1/2 it's mature spread. It is recognized that site conditions will affect the size plants ultimately achieve.

Habitat for Humanity Project House - proposed

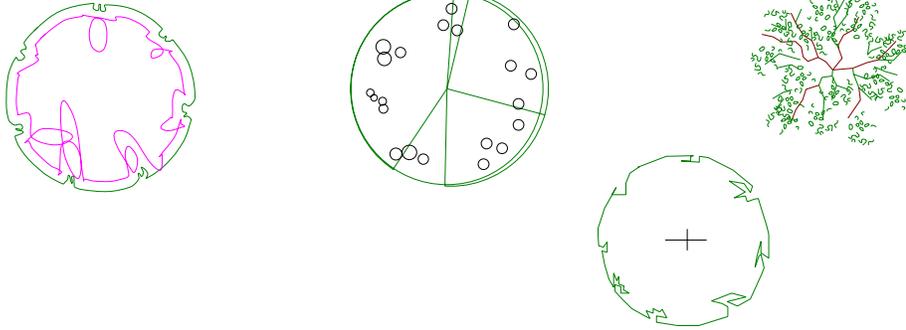


All dimensions for the location of the house on the lot should be taken from the Plan view of the house included in this document. The lot dimensions are on the FFA House_Lot_2010.pdf. Note that, due to variations in printers, there may be slight differences in measurements taken from these documents and no penalties will be assessed for those slight measuring discrepancies.

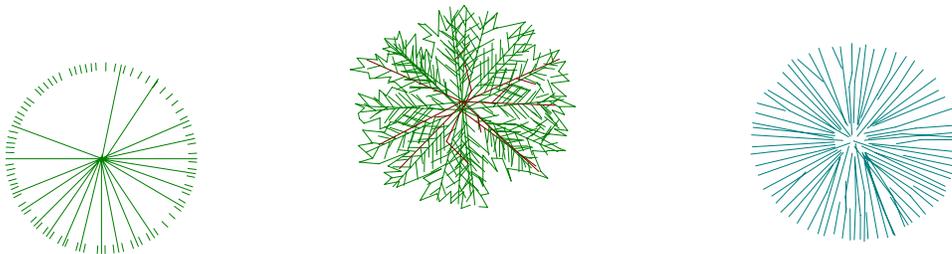
2010 LANDSCAPE DESIGN PROJECT SAMPLES

SAMPLE SYMBOLS ARE SUGGESTED STYLES AND ARE NOT SHOWN TO SCALE

DECIDUOUS



EVERGREEN



2010 LANDSCAPE DESIGN SUPPLEMENTAL INFORMATION

SAMPLE PLANT LIST

KEY	BOTANICAL NAME	COMMON NAME	QUAN	SIZE	ROOTBALL
AR	Acer rubrum	Red Maple	5	2-2.5"	B & B

SAMPLE TITLE BLOCK

CLIENT	DATE
NORTH ARROW	
SCALE OF DRAWING	
DESIGNER/CHAPTER	

Student must locate title block in lower right hand corner of the final drawing. The location of the plant materials list should be chosen to make it easy to read while viewing the design.

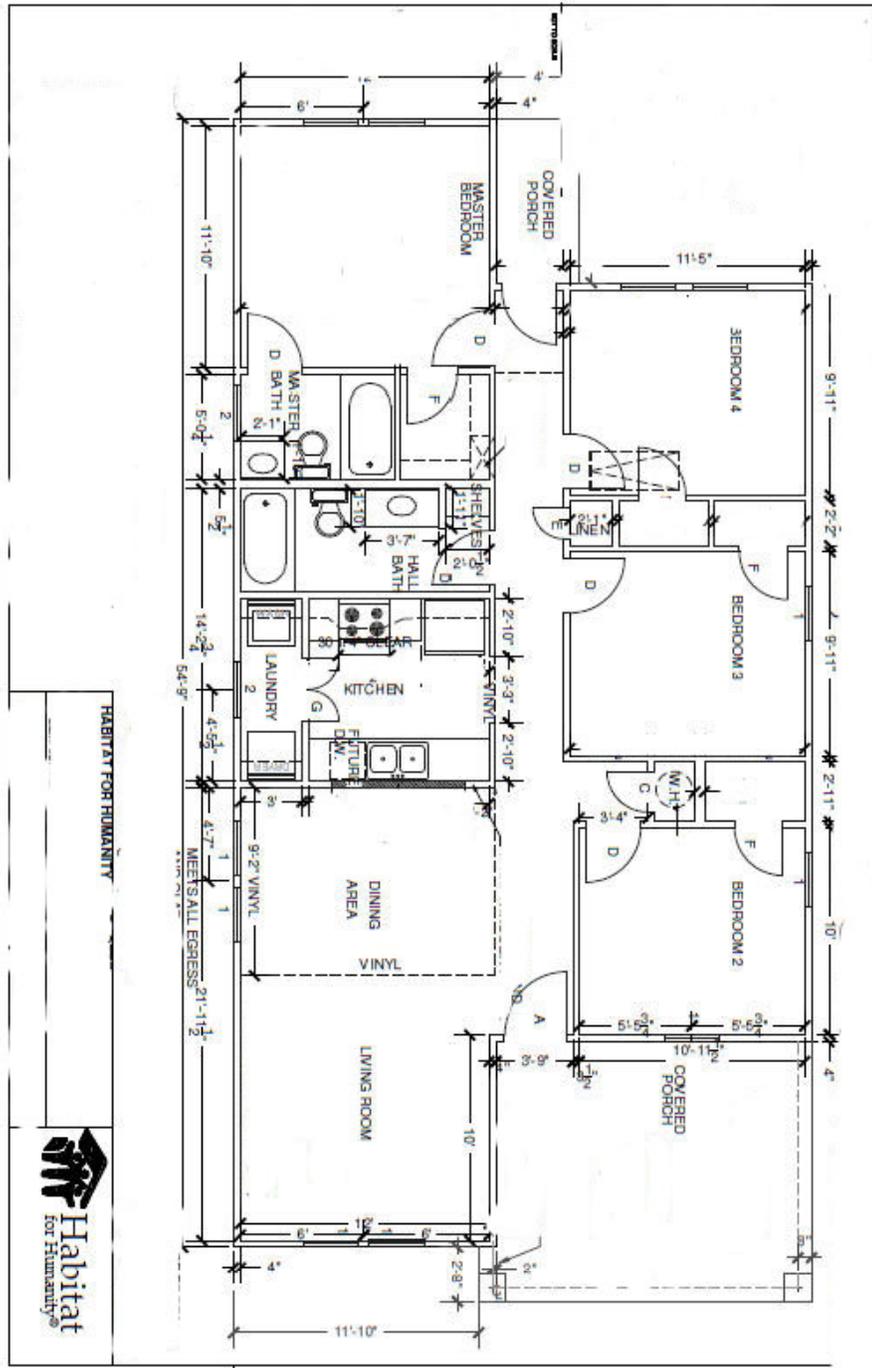
2010 LANDSCAPE DESIGN SUPPLEMENTAL INFORMATION

LANDSCAPE COSTS FORMAT

NOTE: The student must include an estimate of wholesale costs with their landscape design. The Estimate of Wholesale Costs will be worth 10 points as part of the design review component on the Landscape Design CDE. Students must include the unit costs and total costs for all plant material. Lawn areas may be priced out on the basis of square feet, hardscape areas such as patios and walkways should be priced out in square feet AND total cost. No labor, equipment or overhead costs are to be included. The source for all costs must be shown. The table below shows the preferred format for the wholesale cost estimate.

ITEM	UNIT	Qty	UNIT PRICE	TOTAL	Source
Acer rubrum 2" CAL	each	3	\$90.00	\$270.00	Northern Nurseries

Floor plan view of House showing dimensions



Additional Resources:

The FFAHouse_Lot_2010.pdf file may be printed out on a large format printer or at a local print shop or office supply store and will print out at a scale of 1" = 8' feet. For any FFA Chapters who have difficulty getting copies made, full size (24 x 36) copy may be requested from the CDE Coordinator, Jan-Marie Traynor by email at jtraynor@ccm.edu. If your students will be using CAD you may request a digital copy of the base map. Please be sure to include your chapter name, teacher name and mailing address in your email request.

Deer Resistant Plants

While no guarantees can be made the attached list from Rutgers Cooperative Extension may be used as a guideline in making plant selections.

The following website may also provide useful information:

<http://www.gardening.cornell.edu/factsheets/deerdef/>

Landscape Plants Rated by Deer Resistance

Pedro Perdomo, Morris County Agricultural Agent

Peter Nitzsche, Morris County Agricultural Agent

David Drake, Ph.D., Extension Specialist in Wildlife Management

The following is a list of landscape plants rated according to their resistance to deer damage. The list was compiled with input from nursery and landscape professionals, Cooperative Extension personnel, and Master Gardeners in Northern N.J. Realizing that no plant is deer proof, plants in the *Rarely Damaged*, and *Seldom Rarely Damaged* categories would be best for landscapes prone to deer damage. Plants *Occasionally Severely Damaged* and *Frequently Severely Damaged* are often preferred by deer and should only be planted with additional protection such as the use of fencing, repellents, etc. Success of any of these plants in the landscape will depend on local deer populations and weather conditions.

Latin Name Common Name

ANNUALS

Rarely Damaged

<i>Ageratum houstonianum</i>	Ageratum
<i>Antirrhinum majus</i>	Snapdragon
<i>Brugmansia sp. (Datura)</i>	Angel's Trumpet
<i>Calendula sp.</i>	Pot Marigold
<i>Catharanthus rosea</i>	Annual Vinca
<i>Centaurea cineraria</i>	Dusty Miller
<i>Cleome sp.</i>	Spider Flower
<i>Consolida ambigua</i>	Larkspur
<i>Euphorbia marginata</i>	Snow-on-the-Mountain
<i>Helichrysum</i>	Strawflower
<i>Heliotropium arborescens</i>	Heliotrope
<i>Lobularia maritima</i>	Sweet Alyssum
<i>Matricaria sp.</i>	False Camomile
<i>Myosotis sylvatica</i>	Forget-Me-Not
<i>Nicotiana sp.</i>	Flowering Tobacco
<i>Papaver sp.</i>	Poppy
<i>Pimpinalla anisum</i>	Anise
<i>Rosmarinus officinalis</i>	Rosemary

Seldom Severely Damaged

<i>Anethum graveolens</i>	Dill
<i>Borage officinalis</i>	Borage
<i>Celosia sp.</i>	Cock's Comb
<i>Centaurea cyanus</i>	Bachelor's Buttons
<i>Cheiranthus sp.</i>	Wallflower
<i>Eschscholzia californica</i>	California Poppy
<i>Iberis umbellata</i>	Candytuft
<i>Lantana sp.</i>	Lantana
<i>Lobelia sp.</i>	Lobelia
<i>Matthiola sp.</i>	Stocks
<i>Ocimum basilicum</i>	Basil
<i>Perilla frutescens</i>	Shiso

Latin Name Common Name

<i>Petroselinum crispum</i>	Parsley
<i>Salvia</i>	Salvia
<i>Tagetes patula</i>	French Marigold
<i>Tropaeolum majus</i>	Nasturtium
<i>Verbena x hybrida</i>	Verbena
<i>Zinnia sp.</i>	Zinnia

Occasionally Severely Damaged

<i>Begonia semperflorens</i>	Wax Begonia
<i>Coleus sp.</i>	Coleus
<i>Cosmos sp.</i>	Cosmos
<i>Dahlia sp.</i>	Dahlia
<i>Gerbera jamesonii</i>	Gerbera Daisy
<i>Helianthus sp.</i>	Sunflower
<i>Impatiens balsamina</i>	Balsam, Touch-Me-Not
<i>Impatiens walleriana</i>	Impatiens
<i>Ipomea sp.</i>	Morning Glory
<i>Pelargonium sp.</i>	Geranium
<i>Petunia sp.</i>	Garden Petunia
<i>Viola sp.</i>	Pansy

BIENNIALS

Rarely Damaged

<i>Digitalis purpurea</i>	Common Foxglove
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Seldom Severely Damaged

<i>Dianthus barbatus</i>	Sweet William
<i>Lunaria annua</i>	Money Plant
<i>Myosotis alpestris</i>	Forget-Me-Not

Occasionally Severely Damaged

<i>Campanula medium</i>	Canterbury Bells
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Latin Name	Common Name
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BULBS

Rarely Damaged

<i>Allium sp.</i>	Ornamental Onion
<i>Colchicum sp.</i>	Autumn Crocus
<i>Endymion sp.</i>	Bluebell
<i>Eranthus hyemalis</i>	Winter Aconite
<i>Fritilaria imperialis</i>	Crown Imperial, Fritilia
<i>Galanthus nivalis</i>	Snowdrops
<i>Narcissus sp.</i>	Daffodil
<i>Scilla siberica</i>	Siberian Squill

Seldom Severely Damaged

<i>Camassia leichtlini</i>	Camassia
<i>Canna sp.</i>	Canna Lily
<i>Colocasia esculenta</i>	Elephant Ear
<i>Crocus sp.</i>	Crocus
<i>Gladiolus sp.</i>	Gladiolus
<i>Gloriosa superba</i>	Glory Lily
<i>Hyacinthus sp.</i>	Hyacinth
<i>Muscari sp.</i>	Grape Hyacinth
<i>Oxalis sp.</i>	Wood Sorrel
<i>Zantedeschia sp.</i>	Calla Lily

Occasionally Severely Damaged

<i>Caladium sp.</i>	Caladium
<i>Lilium sp.</i>	Garden Lily

Frequently Severely Damaged

<i>Tulip sp.</i>	Tulip
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FERNS

Rarely Damaged

<i>Athyrium goeringianum</i> (<i>nipponicum</i>)	Japanese Painted Fern
<i>Cyrtomium falcatum</i>	Holly Fern
<i>Dennstaedtia punctilobula</i>	Hayscented Fern
<i>Dryopteris marginalis</i>	Wood Fern
<i>Matteuccia struthiopteris</i>	Ostrich Fern
<i>Onoclea sensibilis</i>	Sensitive Fern
<i>Osmunda cinnamomea</i>	Cinnamon Fern
<i>Osmunda regalis</i>	Royal Fern
<i>Polystichum arcostichoides</i>	Christmas Fern
<i>Thelyptens noveboracensis</i>	New York Fern

GROUNDCOVERS

Rarely Damaged

<i>Aegopodium podagaria</i>	Bishop's Weed
<i>Ajuga reptans</i>	Bugleweed
<i>Arctostaphylos uva-ursi</i>	Bearberry
<i>Convallaria majalis</i>	Lily of the Valley
<i>Epimedium sp.</i>	Barrenwort
<i>Galium odoratum</i> (<i>Asperula</i> <i>odorata</i>)	Sweet Woodruff
<i>Lamium sp.</i>	Spotted Deadnettle
<i>Pachysandra procumbens</i>	Allegheny Spurge
<i>Pachysandra terminalis</i>	Pachysandra

Latin Name	Common Name
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Seldom Severely Damaged

<i>Ceratostigma plumbaginoides</i>	Plumbago
<i>Gaultheria procumbens</i>	Creeping Wintergreen
<i>Liriope sp.</i>	Lilyturf
<i>Vinca major</i>	Large Periwinkle
<i>Vinca minor</i>	Periwinkle

Occasionally Severely Damaged

<i>Euonymus fortunei</i>	Wintercreeper
<i>Hedera helix</i>	English Ivy

ORNAMENTAL GRASSES

Rarely Damaged

<i>Acorus sp.</i>	Japanese Sweet Flag
<i>Andropogon sp.</i>	Big Bluestem
<i>Arrhenatherum elatius</i>	Varigated Oat Grass
<i>Arundo donax</i>	Giant Reed
<i>Calamagrostis sp.</i>	Feather Reed Grass
<i>Carex sp.</i>	Japanese Sedge
<i>Chasmanthium latifolium</i>	Northern Sea Oats
<i>Cortaderia selloana</i>	Pampus Grass
<i>Eragrostus curvula</i>	Weeping Love Grass
<i>Erianthus ravennae</i>	Ravenna Grass
<i>Fargesia sp.</i>	Clump Bamboo
<i>Festuca glauca</i>	Blue Fescue
<i>Hakonechloa macra</i>	Hakonechloa
<i>Helictotrichon sempervirens</i>	Blue Oat Grass
<i>Imperata cylindrica</i>	Japanese Blood Grass
<i>Juncus Effusus</i>	Hard Rush
<i>Koeleria glauca</i>	Large Blue June Grass
<i>Leymus arenarius glaucous</i>	Lyme Grass
<i>Miscanthus floridulis</i>	Giant Japanese Silver Grass
<i>Miscanthus sinensis</i>	Japanese Silver Grass
<i>Molinia caerulea</i>	Purple Moor Grass
<i>Molinia caerulea</i> 'Variegata'	Variegated Purple Moor Grass
<i>Panicum virgatum</i>	Switch Grass
<i>Pennisetum alopecuroides</i>	Fountain Grass
<i>Pennisetum orientale</i>	Oriental Fountain Grass
<i>Phyllostachys aurea</i>	Golden Bamboo
<i>Schizachyrium scoparium</i>	Little Bluestem
<i>Sorghastrum nutans</i>	Indian Grass

Seldom Severely Damaged

<i>Bambusa sp.</i>	Bamboo
<i>Carex pendula</i>	Drooping Sedge
<i>Hystrix patula</i>	Bottlebrush Grass
<i>Ophiopogon japonicus</i>	Dwarf Mondo Grass
<i>Phalaris arundinaceae</i>	Ribbon Grass
<i>Scirpus lacustris</i>	Sedge

PERENNIALS

Rarely Damaged

<i>Aconitum sp.</i>	Monkshood
<i>Agastache sp.</i>	Anise Hyssop
<i>Allium sp.</i>	Ornamental Onion
<i>Arabis caucasica</i>	Rock-Cress

Latin Name	Common Name
<i>Arisaema triphylum</i>	Jack-in-the-pulpit
<i>Armoracia rusticana</i>	Horseradish
<i>Artemisia dracunculus</i>	Tarragon
<i>Artemisia sp.</i>	Silver Mound
<i>Asarum canadense</i>	Wild Ginger
<i>Asarum europaeum</i>	European Ginger
<i>Aubretia deltoidea</i>	Purple Rock-Cress
<i>Aurinia saxatilis</i>	Basket of Gold
<i>Baptisia australis</i>	False Indigo
<i>Bruneria macrophylla</i> (Brunnera)	Siberian Bugloss
<i>Cactaceae sp.</i>	Cactus
<i>Coreopsis verticillata</i>	Threadleaf Coreopsis
<i>Corydalis sp.</i>	Corydalis
<i>Dicentra eximia</i>	Fringed Bleeding Heart
<i>Dicentra spectabilis</i>	Bleeding Heart
<i>Echinops ritro</i>	Small Globe Thistle
<i>Euphorbia sp.</i> (except 'Chameleon')	Spurge
<i>Helleborus sp.</i>	Lenton or Christmas Rose
<i>Hesperis matronalis</i>	Dame's Rocket
<i>Hyssopus officinalis</i>	Hyssop
<i>Iris sp.</i> (may eat buds)	Iris
<i>Lavandula sp.</i>	Lavendar
<i>Ligularia dentata</i>	Bigleaf Goldenray
<i>Ligularia</i> 'The Rocket'	Rocket Ligularia
<i>Limonium latifolium</i>	Statice
<i>Linaria vulgaris</i>	Butter & Eggs
<i>Lychnis coronaria</i>	Rose Campion
<i>Majorana</i>	Marjoram
<i>Marrubium vulgare</i>	Horehound
<i>Melissa officinalis</i>	Lemon Balm
<i>Mentha sp.</i>	Mint
<i>Myosotis sp.</i>	Forget-Me-Not
<i>Nepeta sp.</i>	Catmint
<i>Oreganum sp.</i>	Oregano
<i>Paeonia sp.</i> (may eat buds)	Peony
<i>Perovskio atriplicifolia</i>	Russian Sage
<i>Phlomis sp.</i>	Greek Jerusalem Sage
<i>Podophyllum</i>	May Apple
<i>Potentilla sp.</i>	Potentilla, Cinquefoil
<i>Pulmonaria sp.</i>	Lungwort
<i>Ranunculus sp.</i>	Buttercup
<i>Rodgersia sp.</i>	Rodgers Flower
<i>Ruta sp.</i>	Rue
<i>Salvia officinalis</i>	Garden Sage
<i>Santolina chamaecyparissus</i>	Lavender-Cotton
<i>Stachys byzantina</i>	Lamb's Ear
<i>Tanacetum vulgare</i>	Common Tansy
<i>Teucrium Chamaedrys</i>	Germander
<i>Thalictrum sp.</i>	Meadow Rue
<i>Thymus sp.</i>	Thyme
<i>Yucca filamentosa</i>	Yucca

Seldom Severely Damaged

<i>Achillea filipendulina</i>	Yarrow
<i>Achillea millefolium</i>	Common Yarrow
<i>Agapanthus sp.</i>	African Lily
<i>Alchemilla sp.</i>	Lady's Mantle

Latin Name	Common Name
<i>Anchusa sp.</i>	Bugloss
<i>Anemone x hybrida</i>	Japanese Anemone
<i>Anemonella thalictroides</i>	Rue Anemone
<i>Aquilegia sp.</i>	Columbine
<i>Armeria maritima</i>	Sea Thrift
<i>Asclepias incarnata</i>	Swamp Milkweed
<i>Asclepias tuberosa</i>	Butterfly Weed
<i>Asparagus officinalis</i>	Asparagus
<i>Aster sp.</i>	Aster
<i>Astilbe sp.</i>	Astilbe
<i>Bergenia sp.</i>	Heartleaf Bergenia
<i>Boltonia asteroides</i>	White Boltonia
<i>Cerastium</i>	Snow-in-Summer
<i>Chrysanthemum parthenium</i>	Feverfew
<i>Cimicifuga sp.</i>	Snakeroot, Bugbane
<i>Coreopsis lanceolata</i>	Lance Coreopsis
<i>Croscosmia sp.</i>	Crocosmia
<i>Cyclamen sp.</i>	Cyclamen
<i>Delphinium sp.</i>	Delphinium
<i>Dianthus sp.</i>	Carnation, Pinks
<i>Dictamnus alba</i>	Gas Plant
<i>Digitalis grandiflora</i>	Yellow Foxglove
<i>Echinacea purpurea</i>	Purple Coneflower
<i>Erythronium</i>	Trout Lily
<i>Eupatorium coelestinum</i>	Mist Flower
<i>Eupatorium rugosum</i>	White Snakeroot
<i>Geranium macrorrhizum</i>	Hardy Geranium
<i>Gypsophila sp.</i>	Baby's Breath
<i>Helenium autumnale</i>	Sneezeweed
<i>Heuchera sp.</i>	Coralbell
<i>Hypericum calycinum</i>	St. John's Wort
<i>Iberis sempervirens</i>	Candytuft
<i>Kirengeshoma palmata</i>	Yellow Wax-Bells
<i>Kniphofia tritoma</i>	Red-Hot Poker
<i>Liatris sp.</i>	Blazing Star
<i>Lobelia sp.</i>	Cardinal Flower
<i>Lupinus sp.</i>	Lupine
<i>Lychnis chalconica</i>	Maltese Cross
<i>Macleaya cordata</i>	Plume Poppy
<i>Mertensia virginica</i>	Virginia Bluebells
<i>Monarda didyma</i>	Beebalm
<i>Papaver orientale</i>	Oriental Poppy
<i>Patrinia scabiosifolia</i>	Patrinia
<i>Physostegia sp.</i>	Obedient Plant
<i>Polemonium caeruleum</i>	Jacob's Ladder
<i>Primula sp.</i>	Primrose
<i>Rheum rhubarbarum</i>	Rhubarb
<i>Rudbeckia sp.</i>	Black-Eyed Susan
<i>Salvia nemorosa</i>	Meadow Sage
<i>Saponaria sp.</i>	Soapwort
<i>Satureja montana</i>	Savory
<i>Scabiosa caucasica</i>	Pincushin Flower
<i>Sempervivum sp.</i>	Hens and Chickens
<i>Solidago sp.</i>	Goldenrod
<i>Stokesia laevis</i>	Stokes' Aster
<i>Symplocarpos foetidus</i>	Skunk Cabbage
<i>Tiarella cordifolia</i>	Foam Flower
<i>Tradescantia sp.</i>	Spiderwort
<i>Tricyrtis hirta</i>	Toad Lily

Latin Name	Common Name
<i>Trillium sp.</i>	Trillium
<i>Verbascum sp.</i>	Mullein
<i>Veronica sp.</i>	Speedwell
<i>Viola sp.</i>	Violets

Occasionally Severely Damaged

<i>Alcea sp.</i>	Hollyhock
<i>Aruncus sp.</i>	Goat's Beard
<i>Begonia grandis</i>	Hardy Begonia
<i>Bellis perennis</i>	English Daisy
<i>Campanula glomerata</i>	Bellflower
<i>Centaurea montana</i>	Mountain Bluet
<i>Chelone sp.</i>	Pink Turtlehead
<i>Chrysanthemum</i>	Fall Mums
<i>Chrysanthemum superbum</i>	Shasta Daisy
<i>Erigeron sp.</i>	Fleabane
<i>Euphorbia dulcis</i> 'Chameleon'	Spurge
<i>Filipendula sp.</i>	Meadowsweet
<i>Gaillardia sp.</i>	Blanket Flower
<i>Geranium clarkei</i>	Hardy Geranium
<i>Geranium sanguineum</i>	Hardy Geranium
<i>Geranium x cantabrigiense</i>	Hardy Geranium
<i>Geum sp.</i>	Geum, Avens
<i>Hemerocallis sp.</i>	Daylily
<i>Hibiscus moscheutos</i>	Rose Mallow
<i>Leucanthemum maximum</i>	Shasta Daisy
<i>Lysimachia clethroides</i>	Gooseneck Loosestrife
<i>Lythrum sp.</i>	Purple Loosestrife
<i>Oenothera sp.</i>	Sundrops
<i>Penstemon sp.</i>	Penstemon
<i>Phlox sp.</i>	Phlox
<i>Platycodon grandiflorus</i>	Balloon Flower
<i>Polygonatum sp.</i>	Solomon's Seal
<i>Sedum spectabile</i>	Showy Sedum
<i>Sidalcia malviflora</i>	Checkermallow
<i>Symphytum officinale</i>	Comfrey
<i>Trollius sp.</i>	Globeflower

Frequently Severely Damaged

<i>Eryngium sp.</i>	Sea-Holly
<i>Fragraria sp.</i>	Strawberry
<i>Geranium endressii</i>	Hardy Geranium
<i>Hosta sp.</i>	Hosta
<i>Pardancanda x norrisii</i>	Candy Lily

SHRUBS

Rarely Damaged

<i>Aralia spinosa</i>	Devil's Walking Stick
<i>Berberis sp.</i>	Barberry
<i>Buddleia sp.</i>	Butterfly Bush
<i>Buxus sempervirens</i>	Common Boxwood
<i>Calliuna sp.</i>	Heather
<i>Caryopteris clandonensis</i>	Blue Mist Shrub
<i>Cephalotaxus harringtonia</i>	Japanese Plum Yew
<i>Cytisus sp.</i>	Broom
<i>Daphne sp.</i>	Daphne
<i>Elaeagnus angustifolia</i>	Russian Olive

Latin Name	Common Name
<i>Erica sp.</i>	Heath
<i>Ilex x 'John T. Morris'</i>	John T. Morris Holly
<i>Ilex x 'Lydia Morris'</i>	Lydia Morris Holly
<i>Juniperus horizontalis</i> 'Prince of Wales'	Prince of Wales Juniper
<i>Juniperus scopulorum</i> 'Moonglow'	Moonglow Juniper
<i>Leucothoe fontanesiana</i>	Drooping Leucothoe
<i>Mahonia aquifolium</i>	Oregon Grape Holly
<i>Mahonia bealei</i>	Leatherleaf Mahonia
<i>Microbiota decussata</i>	Russian Cypress
<i>Myrica pensylvanica</i>	Bayberry
<i>Pieris floribunda</i>	Mountain Pieris
<i>Pieris japonica</i>	Japanese Pieris, Andromeda
<i>Potentilla fruticosa</i>	Bush Cinquefoil
<i>Rhus aromatica</i>	Fragrant Sumac
<i>Sambucus racemosa</i>	Red Elderberry
<i>Sarcococca hookeriana</i>	Sweet Box
<i>Skimmia japonica</i>	Japanese Skimmia
<i>Viburnum dentatum</i>	Arrowwood Viburnum

Seldom Severely Damaged

<i>Abelia sp.</i>	Glossy Abelia
<i>Abies balsamea</i>	Dwarf Balsam Fir
<i>Andromeda polifolia</i>	Bog Rosemary
<i>Aronia arbutifolia</i>	Red Chokeberry
<i>Aucuba japonica</i>	Goldust Plant
<i>Callicarpa sp.</i>	Beautyberry
<i>Calycanthus floridus</i>	Common Sweetshrub
<i>Calycanthus occidentalis</i>	California Sweetshrub
<i>Chaenomeles japonica</i>	Japanese Flowering Quince
<i>Clerodendrum fargesii</i>	Harlequin Glorybower
<i>Clethra sp.</i>	Sweet Pepperbush
<i>Cornus alba</i>	Red Twigged Dogwood
<i>Cornus sericea</i>	Red Osier Dogwood
<i>Corylus sp.</i>	Hazelnut
<i>Cotinus coggygria</i>	Smokebush
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>Cotoneaster congestus</i>	Pyrenees Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster horizontalis</i>	Rockspray Cotoneaster
<i>Cotoneaster salicifolius</i>	Willowleaf Cotoneaster
<i>Deutzia sp.</i>	Deutzia
<i>Elaeagnus umbellatus</i>	Autumn Olive
<i>Enkianthus campanulatus</i>	Redvein Enkianthus
<i>Forsythia x intermedia</i>	Forsythia
<i>Fothergilla sp.</i>	Fothergillia
<i>Halesia carolina</i>	Carolina Silverbell
<i>Hamamelis virginiana</i>	Common Witchhazel
<i>Hibiscus syriacus</i>	Rose of Sharon
<i>Hippophae rhamnoides</i>	Sea Buckthorn
<i>Hypericum prolificum</i>	St. John's Wort
<i>Ilex aquifolium</i>	English Holly
<i>Ilex cornuta</i>	Chinese Holly
<i>Ilex glabra</i>	Inkberry
<i>Ilex verticillata</i>	Winterberry Holly
<i>Itea virginica</i>	Virginia Sweetspire
<i>Juniperus chinensis</i> 'Armstrongii'	Armstrong Juniper

Latin Name	Common Name
<i>Juniperus chinensis</i> cv.*	Chinese Juniper
<i>Juniperus chinensis</i> 'Pfitzerana'	Pfitzer Juniper
<i>Juniperus horizontalis</i> cv.*	Creeping Juniper
<i>Juniperus horizontalis</i> 'Youngstown'	Youngstown Andorra Juniper
<i>Juniperus procumbens</i> 'Nana'	Japanese Garden Juniper
<i>Juniperus sabin</i> cv.	Savin/Tam Juniper
<i>Juniperus scopulorum</i> cv.*	Mountain Juniper
<i>Juniperus squamata</i> 'Blue Star'	Blue Star Juniper
<i>Juniperus squamata</i> cv.*	Singleseed Juniper
<i>Kerria japonica</i>	Japanese Kerria
<i>Kolkwitzia amabilis</i>	Beautybush
<i>Lagerstroemia indica</i>	Crape Myrtle
<i>Leucothoe axillaris</i>	Coast Leucothoe
<i>Ligustrum</i> sp.	Privet
<i>Lindera benzoin</i>	Spicebush
<i>Magnolia x soulangiana</i>	Saucer Magnolia
<i>Osmanthus heterophyllus</i>	Holly Osmanthus
<i>Philadelphus coronarius</i>	Sweet Mock Orange
<i>Pinus mugo</i>	Mugo Pine
<i>Prunus laurocerasus</i>	Cherry Laurel
<i>Pyracantha coccinea</i>	Firethorn
<i>Rhamnus</i> sp.	Buckthorn
<i>Ribes</i> sp.	Currant
<i>Rubus</i> sp.	Brambles
<i>Sambucus canadensis</i>	Blueberry Elder, Sweet Elder
<i>Spiraea japonica</i>	Japanese Spirea
<i>Spiraea prunifolia</i>	Bridalwreath Spirea
<i>Spiraea x bumalda</i>	Anthony Waterer Spirea
<i>Symphoricarpos albus</i>	Snowberry
<i>Symphoricarpos x chenaultii</i>	Coralberry
<i>Syringa reticulata</i>	Japanese Tree Lilac
<i>Syringa vulgaris</i>	Common Lilac
<i>Viburnum carlesii</i>	Koreanspice Viburnum
<i>Viburnum opulus</i>	Cranberry Bush
<i>Viburnum plicatum tomentosum</i>	Doublefile Viburnum
<i>Viburnum prunifolium</i>	Blackhaw Viburnum
<i>Viburnum rhytidophyllum</i>	Leatherleaf Viburnum
<i>Viburnum x juddii</i>	Judd Viburnum
<i>Weigela florida</i>	Weigela

Occasionally Severely Damaged

<i>Cornus racemosa</i>	Panicle Dogwood
<i>Cornus sanguinea</i>	Bloodtwig Dogwood
<i>Corylopsis glabrescens</i>	Fragrant Winterhazel
<i>Euonymus alata</i>	Winged Euonymus
<i>Euonymus japonica</i>	Japanese Euonymus
<i>Hydrangea arborescens</i>	Smooth Hydrangea
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Hydrangea paniculata</i>	Panicle Hydrangea
<i>Hydrangea quercifolia</i>	Oakleaf Hydrangea
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex x meserveae</i>	Blue Holly
<i>Juniperus conferta</i>	Shore Juniper
<i>Kalmia latifolia</i>	Mountain Laurel
<i>Nandina</i> sp.	Heavenly Bamboo

Latin Name	Common Name
<i>Prunus x cistena</i>	Purple Leaf Sand Cherry
<i>Rhododendron carolinianum</i>	Carolina Rhododendron
<i>Rhododendron catawbiense</i>	Catawba Rhododendron
<i>Rhododendron maximum</i>	Rosebay Rhododendron
<i>Rhododendron</i> sp.*	Deciduous Azaleas
<i>Rosa multiflora</i>	Multiflora Rose
<i>Rosa rugosa</i>	Rugosa Rose
<i>Rosa x hybrid</i>	Hybrid Tea Rose
<i>Syringa villosa</i>	Late Lilac
<i>Syringa x chinensis</i>	Chinese Lilac
<i>Syringa x persica</i>	Persian Lilac
<i>Vaccinium corymbosum</i>	Highbush Blueberry

Frequently Severely Damaged

<i>Euonymus fortunei</i>	Wintercreeper
<i>Rhododendron penclymenoides</i>	Pinxterbloom Azalea
<i>Rhododendron</i> sp.*	Evergreen Azaleas
<i>Rhododendron</i> sp.*	Rhododendrons
<i>Taxus</i> sp.	Yews

TREES

Rarely Damaged

<i>Aesculus parviflora</i>	Bottlebrush Buckeye
<i>Albizia julibrissin</i>	Mimosa
<i>Asimina triloba</i>	Pawpaw
<i>Betula nigra</i>	River Birch
<i>Betula papyrifera</i>	Paper Birch
<i>Cercidiphyllum japonicum</i>	Katsura Tree
<i>Ilex opaca</i>	American Holly
<i>Picea glauca</i> 'Conica'	Dwarf Alberta Spruce
<i>Pinus resinosa</i>	Red Pine
<i>Pinus rigida</i>	Pitch Pine
<i>Pinus thunbergiana</i>	Japanese Black Pine

Seldom Severely Damaged

<i>Acer griseum</i>	Paperbark Maple
<i>Acer palmatum</i>	Japanese Maple
<i>Acer pensylvanicum</i>	Striped Maple
<i>Acer rubrum</i>	Red Maple
<i>Acer saccharum</i>	Sugar Maple
<i>Aesculus x carnea</i>	Ruby Horsechestnut
<i>Amelanchier arborea</i>	Downy Serviceberry
<i>Amelanchier canadensis</i>	Shadbush
<i>Amelanchier laevis</i>	Allegheny Serviceberry
<i>Betula albo-sinensis</i>	Chinese Paper Birch
<i>Betula jacquemontii</i>	Himalayan Birch
<i>Betula lutea</i>	Yellow Birch
<i>Betula pendula</i>	European White Birch
<i>Chaenomeles speciosa</i>	Common Flowering Quince
<i>Chamaecyparis pisifera</i>	Japanese Falsecypress
<i>Chionanthus retusus</i>	Chinese Fringe Tree
<i>Cornus kousa</i>	Kousa Dogwood
<i>Crataegus laevigata</i>	English Hawthorn
<i>Cryptomeria japonica</i>	Japanese Cedar
<i>Fagus sylvatica</i>	European Beech
<i>Fraxinus pennsylvanica</i>	Green Ash

*Check other rating categories to find additional species or cultivars of this genus.

Latin Name	Common Name
<i>Fraxinus excelsior</i>	European Ash
<i>Gleditsia triacanthos</i>	Honey Locust
<i>Ilex x aquipernyi</i>	Dragon Lady, San Jose Holly
<i>Juniperus virginiana</i>	Eastern Red Cedar
<i>Koeleruteria paniculata</i>	Goldenrain Tree
<i>Liriodendron tulipifera</i>	Tulip Tree
<i>Metasequoia glyptostroboides</i>	Dawn Redwood
<i>Oxydendrum arboreum</i>	Sourwood
<i>Picea abies</i>	Norway Spruce
<i>Picea glauca</i>	White Spruce
<i>Picea omorika</i>	Serbian Spruce
<i>Picea pungens</i>	Colorado Blue Spruce
<i>Pinus densiflora</i>	Japanese Red Pine
<i>Pinus nigra</i>	Austrian Pine
<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Prunus serrulata</i>	Japanese Flowering Cherry
<i>Pseudotsuga menziesii</i>	Douglas Fir
<i>Salix matsudana tortuosa</i>	Corkscrew Willow
<i>Sassafras albidum</i>	Common Sassafras

Occasionally Severely Damaged

<i>Abies balsamea</i>	Balsam Fir
<i>Abies concolor</i>	White Fir
<i>Abies fraseri</i>	Fraser Fir
<i>Acer platanoides</i>	Norway Maple
<i>Acer saccharinum</i>	Silver Maple
<i>Aesculus hippocastanum</i>	Common Horsechestnut
<i>Cedrus atlantica</i>	Atlas Cedar
<i>Cercis canadensis</i>	Eastern Redbud
<i>Chamaecyparis obtusa</i>	Hinoki Cypress
<i>Chamaecyparis thyoides</i>	Atlantic White Cedar
<i>Chionanthus virginicus</i>	White Fringe Tree
<i>Cornus alternifolia</i>	Alternate-Leaved Dogwood
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus mas</i>	Cornelian Cherry
<i>Cupressocyparis leyandii</i>	Leyland Cypress
<i>Ilex pernyi</i>	Pernyi Holly
<i>Ilex x 'Nellie R. Stevens'</i>	Nellie Stevens Holly
<i>Larix decidua</i>	European Larch
<i>Liquidambar styraciflua</i>	Sweetgum

Latin Name	Common Name
<i>Malus sp.</i>	Apples
<i>Prunus avium</i>	Sweet Cherry
<i>Pyrus calleryana</i>	Callery Pear
<i>Pyrus communis</i>	Common Pear
<i>Quercus alba</i>	White Oak
<i>Quercus prinus</i>	Chestnut Oak
<i>Quercus rubra</i>	Northern Red Oak
<i>Rhus typhina</i>	Staghorn Sumac
<i>Robinia pseudoacacia</i>	Black Locust
<i>Salix sp.*</i>	Willows
<i>Taxodium distichum</i>	Bald Cypress
<i>Thuja plicata</i>	Western Arborvitae
<i>Tilia americana</i>	Basswood
<i>Tilia cordata 'Greenspire'</i>	Greenspire Littleleaf Linden
<i>Tsuga canadensis</i>	Eastern Hemlock
<i>Tsuga caroliniana</i>	Carolina Hemlock

Frequently Severely Damaged

<i>Prunus sp.</i>	Plums
<i>Prunus sp.*</i>	Cherries
<i>Sorbus aucuparia</i>	European Mountain Ash
<i>Thuja occidentalis</i>	American Arborvitae

VINES

Seldom Severely Damaged

<i>Celastrus scandens</i>	American Bittersweet
<i>Jasminum nudiflorum</i>	Winter Jasmine
<i>Wisteria floribunda</i>	Wisteria

Occasionally Severely Damaged

<i>Campsis radicans</i>	Trumpet Creeper
<i>Clematis sp.</i>	Clematis
<i>Hedera helix</i>	English Ivy
<i>Hydrangea anomala petiolaris</i>	Climbing Hydrangea
<i>Lonicera x heckrottii</i>	Goldflame Honeysuckle
<i>Parthenocissus quinquefolia</i>	Virginia Creeper

Frequently Severely Damaged

<i>Euonymus fortunei</i>	Wintercreeper
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Special thanks to our cooperators on this project:

Helen Heinrich, Certified Landscape Architect; James Messina, Certified Landscape Architect, Landscape Plus;
Valerie Sudal, Garden Writer, The Newark Star-Ledger; and numerous landscapers, Master Gardeners, and
nurserymen who provided ratings.

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Desktop publishing by Rutgers-Cook College Resource Center

Revised: April 2003

RUTGERS COOPERATIVE RESEARCH & EXTENSION
N.J. AGRICULTURAL EXPERIMENT STATION
RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY
NEW BRUNSWICK

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