

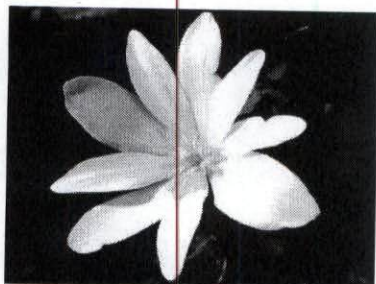


# MEMORIAL ECOSYSTEMS

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Monday, February 08, 2010



The smallest sprout shows there is really no death, And if ever there was it led forward life, and does not wait at the end to arrest it. And ceas'd the moment life appear'd. All goes onward and outward, nothing collapses, And to die is different from what any one supposed, and luckier.

-Walt Whitman

The following is Dr. Gaddy's spring of 1998 report, along with a number of other plants that we have found since. It is a fairly complete list, but we do expect to find additional plants as time goes by. For example, we added crested coral root to the list in 1999. It is a plant that had never been seen in Oconee County, and as a saprophytic orchid, is invisible for most of the year. We also added more than 50 others, bringing the total number of identified plant species up to around 200. In some cases, especially where there are a large number of species (blackberries, for instance), we have listed only the genus. We hope to add to the list and give species names where possible. We apologize for the superficial treatment of grasses here in particular.

Those species Ramsey Creek staff added since Doctor Gaddy's report, and not yet verified by him will be noted with a \*\* after the number. We expect the list to eventually top out in the low 200's, especially if we count common weedy species. We also plan to do some appropriate introductions in the restoration areas. When we add these to the list, they will be noted with a "!" sign. At least one and maybe two plants are introductions that might not be completely "appropriate", but will be allowed to stay. The bald cypress is in the wetland. The clethera might or might not be an introduction. We do include some plants that we wish were not in the preserve, including Asian honeysuckle and privet, and will indicate such non-native escapes with a @.

**Update, 2009.** On August 23, 2008, the South Carolina Association of Naturalists came on a field trip to Ramsey Creek, and added almost 90 new species to the list, and we have also found others since. While many of the species were on the original 33 acres, many others were found in and around the wetlands in the additional 38 acres we have protected upstream. All told, we have documented more than 300 species and expect the total number could be closer to 400 than the original "low 200's" we expected years ago. Some of the genus names have changed over the years, and we have tried to eliminate duplications (but if you find one, let us know). New SCAN records are noted with a "!!".

- Plant List
- Trees
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## Plant List

Dr Gaddy's 1998 Preliminary Inventory Forward:

Memorial Ecosystems' Ramsey Creek property is rich and diverse Piedmont site. A preliminary inventory of the vascular plants of this tract indicates that over 130 plant species, including over 30 tree species, are present here. Two state-listed plants--rough sedge (*Carex scabrata*) and tripartite violet (*Viola tripartita*)--and two species uncommon in South Carolina -- crested coral root (*Hexalectris spicata*) and Biltmore carrion flower (*Smilax biltmoreana*)--are found on the property. Fraser magnolia (*Magnolia fraseri*) and deer-tongue laurel (*Rhododendron minus*), both normally found in the mountains of South Carolina, and storax (*Styrax grandifolia*) and chalk maple (*Acer leucoderme*), which are uncommon outside of the Brevard Belt, are also found on the tract. The following preliminary list of vascular plants is based on field work conducted on site in the spring of 1998.

Scientific name is given first, followed by common name in parentheses. The number after the name indicates the plant community habitat in which the plant occurs on the tract.

1. PINE
2. PINE-MIXED HARDWOODS
3. MIXED HARDWOODS
4. BOTTOMLAND WOODS
5. BOGS/SEEPAGES

## 6. MEADOWS/SAVANNAHS

## Trees

- *Acer floridanum* (southern sugar maple) 3!!
- *Acer leucoderme* (chalk maple) 3
- *Acer rubrum* (red maple) 2,3
- *Albizia julibrissin* (mimosa-very invasive)@!!
- *Amelanchier laevis* (serviceberry) 1,2
- *Amelanchier arborea* (downy serviceberry) 1,2!!
- *Betula nigra* (river birch) 4
- *Carpinus caroliniana* (ironwood) 3,4
- *Carya glabra* (pignut hickory) 3
- *Carya tomentosa* (mockernut hickory) 2,3
- *Castanea dentata* (F1-hybrid American Chestnut with European) 3 \*\*\*!
- *Castanea dentata* (American Chestnut-sprouts) 3,4
- *Cercis canadensis* (redbud) 3
- *Chionanthus virginicus* (fringe tree) 3\*\*
- *Cornus alternifolia* (alternate-leaved dogwood) 3
- *Cornus florida* (dogwood) 2,3
- *Diospyros virginiana* (persimmon) 2,3,4
- *Fagus grandifolia* (American beech) 3,4
- *Fraxinus americana* (white ash) 3
- *Gleditsia triacanthos* (honey locust) 6\*\*\*!!
- *Halesia carolina* (silverbell) 3,4
- *Hamamelis virginiana* (witch hazel-large shrub or small tree) 3,4\*\*\*
- *Ilex opaca* (Holly) 2,3 \*\*
- *Juglans nigra* (black walnut) 1
- *Juniperus virginiana* (eastern red cedar) 1,2
- *Liquidambar styraciflua* (sweet gum) 3,4
- *Liriodendron tulipifera* (tulip poplar) 3,4
- *Malus angustifolia* (wild crab-apple) 2,3@!!
- *Magnolia acuminata* (cucumber tree) 3
- *Magnolia fraseri* (Fraser's magnolia) 3
- *Morus rubra* (red mulberry) 3
- *Nyssa sylvatica* (black gum) 2,3
- *Oxydendrum arboreum* (sourwood) 2,3
- *Pinus echinata* (shortleaf pine) 1,2,3,4
- *Pinus strobus* (white pine) 2 \*\*
- *Pinus taeda* (loblolly pine) 1
- *Pinus virginiana* (Virginia pine) 1,2
- *Plantus occidentalis* (sycamore) 3,4!!
- *Prunus serotina* (black cherry) 2,3
- *Quercus alba* (white oak) 2,3
- *Quercus coccinea* (scarlet oak) 2,3
- *Quercus falcata* (southern red oak) 2,3
- *Quercus phellos* (willow oak) 2,3!!
- *Quercus marilandica* (blackjack oak) 2
- *Quercus nigra* (water oak) 2
- *Quercus rubra* (red oak) 3
- *Quercus stellata* (post oak) 2,3
- *Quercus velutina* (black oak) 3
- *Robinia pseudo-acacia* (black locust) 2,3 \*\*
- *Taxodium distichum* (bald cypress) 5 \*\*\*!
- *Tsuga canadensis* (eastern hemlock) 2,3,4\*\*\*!!

## Shrubs

- *Aeschulus sylvatica* (dwarf buckeye) 3
- *Alnus serrulata* (tag alder, river alder) 4,5
- *Aralia spinosa* (Devil's walking stick) 3\*\*
- *Arundinaria gigantea* (cane) 3,4
- *Asimina parviflora* (small-flowered paw-paw) 3!!
- *Asimina triloba* (common paw-paw) 2,3\*\*!!
- *Callicarpa americana* (beautyberry) 2,6\*\*!!
- *Calycanthus floridus* (sweetshrub) 3
- *Calycanthus floridus glaucus* (smooth sweet-shrub) 2,3 !!
- *Celtis tenuifolia* (dwarf hackberry) 2,6 !!
- *Cephalanthus occidentalis* (buttonbush) 4,5\*\*!!
- *Clethra alnifolia* (cinnamon clethera) 4, (!-?)
- *Corylus americana* (American hazelnut) 3
- *Crataegus uniflora* (one-flower hawthorn) 2,6
- *Euonymus americanus* (hearts-a-bursting) 3,4
- *Frangula caroliniana* (Carolina buckthorn) 2,3,4\*\*!! can be small tree to 20 feet
- *Halesia tetraptera* (Silverbell) 4 \*\*!!
- *Hydrangea* sp. (hydrangea) 3
- *Hypericum hypericoides* (St. Johnswort) 2
- *Itea virginica* ( virginia willow) 4
- *Kalmia latifolia* (mountain laurel) 3
- *Leucothoe fontesiana* (dog hobble) 4,5
- *Ligustrum sinensis* (Chinese privet) 4 @
- *Lyonia ligustrina* (maleberry; he-huckleberry) 2,6
- *Nandina domestica* (nandina) 2,3 @
- *Prunus angustifolia* (Chickasaw Plum) 2,6
- *Rhododendron minus* ( Carolina rhododendron) 3
- *Rhododendron nudiflorum* (pinkster flower) 3
- *Rhododendron calendulaceum* (flame azalea) 3 \*\*
- *Rosa carolina* (Carolina rose) 4,6 (open low meadow) \*\*!!
- *Rhus copallina* (winged sumac) 6\*\*
- *Rhus Glabra* (smooth sumac) 6 \*\*
- *Rubus* sp. (blackberry)
- *Sassafras albidum* (sassafras) 1,2,3,6 \*\* grows to tree on property
- *Sambucus canadensis* (common elderberry) 4,6 !!
- *Styrax grandifolia* (storax) 3
- *Symplocos tinctoria* (horse-sugar) 2,3,4\*\*!!
- *Vaccinium arboreum* (sparkleberry) 1,2
- *Vaccinium fuscum* (black high-bush blueberry) 2,6!!
- *Vaccinium pallidum* (hillside blueberry) 2,6!!
- *Vaccinium stamineum* (squawberry) 1,2
- *Vaccinium vacillans* (lowbush blueberry) 2,3
- *Viburnum acerifolium* (maple-leaved viburnum) 3
- *Viburnum prunifolium* (Black haw; nannyberry) 2,3 can be small tree
- *Viburnum rufidulum* (Southern black haw) 2,3 can be a small tree
- *Xanthorrhiza simplicissima* (yellow-root) 3,4



### Herbs, Grasses, Sedges, Ferns, and Vines

- *Actaea pachypoda* (doll's eye) 3
- *Adiantum pedatum* (maidenhair fern) 3
- *Agalinis linifolia* (Gerardia)\*\* 2
- *Agrimonia pubescens* (hairy agrimony) 4
- *Ambrosia artemisiifolia* (common ragweed) 6!!
- *Amsonia tabernaemontana* (blue star) 3
- *Andropogon gerardii* (big bluestem) 6\*\*
- *Andropogon ternarius* (splitbeard bluestem) 6\*\*
- *Andropogon virginicus* (broomstraw) 6 \*\*

- *Anemone acutiloba* (sharp-lobed hepatica) 3!!
- *Anemone americana* (round-lobed hepatica) 3 (formerly *Hepatica americana*)
- *Anemone quinquefolia* (five-leaved wood anemone) 3
- *Anemone virginiana* (thimbleweed;tall anemone) 4\*\*!!
- *Antennaria plantaginifolia* (plantain-leaved pussy-toes) 1,2
- *Apios americana* (common groundnut) 4!!
- *Arisaema triphyllum* (jack-in-the-pulpit) 5 \*\*
- *Aristolochia serpentaria* ( Virginia snakeroot) 3
- *Arnoglossum atriplicifolium* (Prairie Indian plantain) 4!!\*\*
- *Aster cordifolius* (heart-leaved aster) 3
- *Aster divaricatus* (white-topped aster) 2,3
- *Aster patens* (Piedmont aster) 2
- *Asclepias variegata* (white milk-weed) 2,3,6 \*\*
- *Asclepias tuberosa* (butterfly weed) 6\*\*
- *Athyrium felix-femina* (southern lady fern) 3,4,5
- *Aureolaria* (sp) (false yellow foxglove) 3\*\*
- *Baptisia tinctoria* (wild indigo)\*\*!!
- *Bidens* sp. (beggar-ticks) 6,4!! open habitats
- *Bignonia capreolata* (cross-vine) 3,4
- *Boehmeria cylindrica* (false-nettle) 4
- *Botrychium virginianum* (rattlesnake fern) 3
- *Cacalia atriplicifolia* (white Indian plantain) 2
- *Callicarpa americana* (Beauty berry) 1,6\*\*
- *Campis radicans* (trumpet creeper) 4
- *Carex gynandra* (mountain fringed sedge) 5
- *Carex leptalea* (thin sedge) 5
- *Carex nigromarginata* (black-edged sedge) 1,2
- *Carex scabrata* (rough sedge) 5
- *Carex styloflexa* (sedge) 5
- *Carex torta* (twisted sedge) 4
- *Carex umbellata* (sedge) 1
- *Centrosema virginianum* (climbing butterfly-pea)\*\*1,6
- *Chamaecrista fasciculata fasciculata* (sensitive plant;partridge-pea)2,6!!
- *Chasmanthium sessilifolium* (long-leaf wood oats) 4
- *Chasmanthium latifolium* (river oats) 4,5,6 \*\*!!
- *Chelone obliqua* (turtlehead) 5
- *Chimaphila maculata* (pipsissewa) 1,2
- *Chrysogonum americanum* (green and gold) 3
- *Cimicifuga racemosa* (black cohosh) 3
- *Clematis viorna* (leatherflower) (2,3,4) \*\*
- *Cocculus caroliniana* ( Carolina moonseed) 3
- *Collinsonia canadensis* ( Canada horsebalm) 3
- *Commelina communis communis* (common dayflower) @ 5,6
- *Coreopsis major* (whorled-leaf coreopsis) 1,6\*\*
- *Cuscuta* sp. (dodder) 4\*\*
- *Cypripedium acaule* (Pink lady's slipper) 2 \*\*
- *Dactylis glomerata* (orchardgrass) 6\*\*
- *Daucus carota* (Queen-Anne's-lace) @6
- *Decumaria barbara* (climbing hydrangea) 3,4!!
- *Desmodium canescens* (tick-trefoil) 2,3,6 !!
- *Desmodium nudiflorum* (naked tick refoil) 2,3,6!!
- *Desmodium paniculatum paniculatum* (tick trefoil) 2,3,6!!
- *Desmodium rotundifolium* (dollar plant) 6\*\*
- *Diodia teres* (poor Joe) 4,6!! in more open areas
- *Dioscorea villosa* (wild yam) 3
- *Dichanthelium boscii* (Bose's panic grass) 3,6 (formerly panicum)
- *Elephantopus carolinianus* (Carolina elephant-foot)1,6\*\*
- *Elephantopus tomentosus* ( elephant foot; Devil's grandmother) 6!!
- *Elymus virginicus* (wild rye) 6!!
- *Epifagus virginiana* (beech drops) 3 (under beech)
- *Eragrostis spectabilis* (purple lovegrass) 6\*\*
- *Erigeron pulchellus* (daisy fleabane) 3
- *Eryngium yuccifolium* (rattlesnake master) 2,4
- *Erythronium americanum* (trout lily) 4\*\*
- *Eupatorium capillifolium* (common dog fennel) 6!!

- *Eupatorium rotundifolium* (round-leaved thoroughwort) 2
- *Euphorbia corollata* (eastern flowering spurge) 2,3,6!!
- *Eutrochium fistulosum* (Joe-pye-weed) 4,5,6!!\*\* wetter areas and streamside
- *Galax urceolata* (Galax) 4 \*\*
- *Galium circaeazans* (Piedmont bedstraw) 3
- *Gentiana linearis* (narrow-leaved gentian) 2,3
- *Geranium maculatum* (wild geranium) 3
- *Geum canadense* (Canada avens) 4
- *Gillenia trifoliata* (Indian physic) 3,4
- *Glyceria* sp. (manna grass) 5
- *Goodyera pubescens* (rattlesnake plantain) 2,3
- *Habenaria clavellata* (green wood orchid) 5
- *Helianthus angustifolius* (narrow-leaf sunflower) 6\*\*
- *Helianthus decapetalus* (forest sunflower) 2,3!!
- *Helianthus gigantea* (Giant Sunflower) 4\*\*
- *Helianthus microcephalus* (small-headed sunflower) 3,4 !! sometimes streamside
- *Heuchera americana* (American alumroot) 4
- *Heterotheca mariana* (Maryland golden aster)
- *Hexalectris spicata* (crested coral root) 3
- *Hexastylis arifolia* (wild ginger, heartleaf) 3
- *Hieracium venosum* (hawk-weed) 2
- *Houstonia serpyllifolia* (creeping bluets) 4
- *Hydrangea arborescens* (snowy hydrangia) 3\*\*
- *Hypericum hypericoides* (St. Andrew's Cross) 2,3,6!!
- *Hypericum mutilum* (Dwarf St. John's-wort) 5!!
- *Hypoxis hirsuta* (yellow-eyed grass) 2
- *Impatiens carpensensis* (spotted touch-me-no) 5 (streamside)!!\*\*
- *Iris cristata* (dwarf crested iris) 3
- *Iris verna* (summer iris) 2
- *Juncus coriaceus* (tough needlerush) 4,5
- *Juncus effusus* (common needlerush) 4
- *Liatris squarrosa* (blazing star) 1,2,6 \*\*
- *Liatris graminifolia* (blazing star) 1,2,6\*\*
- *Liatris microcephala* (small-headed blazing star)6!!
- *Liatris spicata* (dense blazing star) 6\*\*
- *Ligusticum candense* (wild boar hog root, American lovage) 3
- *Lilium michauxii* (Michaux's lily) 3,4
- *Ludwigia alternifolia* (alternate-leaf seed box) 4,5!!
- *Ludwigia decurrens* (wingstem water-primrose) 5!!
- *Ludwigia palustris* (common water-purselane) 5!! in shallow water
- *Lobelia cardinalis* (cardinal flower) 5
- *Lobelia inflata* (rabbit tobacco) 1,6 \*\*
- *Lobelia* sp.
- *Lonicera japonica* (Japanese honeysuckle) 3,4
- *Lonicera sempervirens* (coral honeysuckle) 2
- *Lycopodium flabelliforme* (Running pine) 1,2 \*\*
- *Lycopus virginicus* (Virginia bugleweed) 5!!
- *Lysimachia quadrifolia* (whorled loosestrife)\*\*
- *Manfreda virginica* (false aloe; tuberose) 3,6\*\* prefers open areas for blooming
- *Matalea carolinensis* (Carolina spinypod) 4
- *Medeola virginiana* (Indian cucumber root) 3,5
- *Melia mutica* (melic grass) 3
- *Microstegium vimineum* (Japanese stilt grass) @ !!
- *Mimosa microphylla* (sensitive briar) 4 \*\*
- *Mimulus ringens ringens* (Allegheny monkey flower) 5!!
- *Mitchella repens* (partridge berry) 2,3
- *Monarda clinopodia* (white bergamot) 3 \*\*
- *Monotropa hypopithysis* (pine sap) 1,2 \*\*
- *Monotropa uniflora* (Indian pipes) 2,3 \*\*
- *Onoclea sensibilis sensibilis* (sensitive fern) !!
- *Oenothera perennis* (sundrops)6\*\*
- *Onosmodium virginianum* (Virginia marbleseed) 1\*\*
- *Osmunda cinnamomea* (cinnamon fern) 5
- *Orchis spectabilis* (showy orchis) 3
- *Oxalis violacea* (violet oxalis) 3

- *Oxypolis rigidior* (rigid cowbane) 5
- *Panax quinquefolius* (ginseng) 3 !
- *Panicum anceps* (beaked panic grass) 6!!
- *Parthenium* sp. (quinine weed) 2
- *Parthenocissus quinquefolia* (Virginia creeper) 2,3
- *Passiflora incarnata* (may-pops) 6
- *Passiflora lutea* (yellow passion-vine) 3
- *Pedicularis canadensis* (common lousewort) 4
- *Persicaria sagittata* (Arrowleaf tearthumb) 4 (formerly *Polygonum sagittatum*)
- *Persicaria setacea* (swamp smartweed) 5!!
- *Phlox carolina* (Carolina phlox) 4
- *Phlox stolonifera* (creeping phlox) 3
- *Pityopsis aspera adenolepis* (grass leaved golden aster) 6 !!
- *Pityopsis graminifolia latifolia* (grass-leaved golden aster) 6 (formerly *heterotheca*)
- *Podophyllum peltatum* (mayapple) 4\*\*\*
- *Polygonatum biflorum* (Solomon's seal) 3
- *Polymnia uvedalia* (bear-paw) 4
- *Polystichum acrostichoides* (Christmas fern) 3
- *Potentilla canadensis* (five-fingers) 2
- *Prenanthes trifoliata* (gall-of-the-earth) 2,3,4
- *Pteridium aquilinum* (bracken fern) 1,2
- *Pycnanthemum incanum* (white mountain mint) 2,3!!\*\*\*
- *Pycnanthemum pycnanthemoides* (Southern mountain mint) 2,3,4!!
- *Rhynchospora glomerata glomerata* (clusered beaksedge) 5!!
- *Rudbeckia hirta* (black-eyed Susan's) 1,6\*\*\*
- *Rudbeckia laciniata* (lace-leaved coneflower) 4
- *Ruellia carolineensis* (Carolina petunia) 1 \*\*\*
- *Sanguinaria canadensis* (bloodroot) 3
- *Sanicula* sp. (snakeroot) 3,4
- *Schizachyrium scoparium* (little bluestem) 6 (formerly *andropogon*)
- *Scleria triglomerata* (nut-rush) 2
- *Silene stellata* (starry campion) 3
- *Silphium astericus latifolium* 2,6 !!
- *Silphium compositifolium* (rosinweed) 2
- *Smilacina racemosa* (false Solomon's seal) 3
- *Smilax biltmoreana* (Biltmore carrion-flower) 3
- *Smilax bona-nox* (cat-briar) 4
- *Smilax glauca* (glaborous greenbriar) 3
- *Smilax herbacea* (herbaceous greenbriar) 3
- *Solidago curtissii* (Curtis's Goldenrod) 3
- *Solidago odora* (fragrant goldenrod) 2,3
- *Sorghastrum nutans* (Indian grass) 6\*\*\*
- *Sparganium americanum* (American bur-reed) 5!!
- *Spigelia marilandica* (Indian pink) 3
- *Spiranthes grayi* (Little ladies' tresses) 6
- *Sorghastrum elliotii* (Indian grass) 1,6 \*\*\*
- *Strophostyles umbellata* (perinneeal sand bean) 4!!
- *Tetragonathea helianthoides* (square-head) 2\*\*\*
- *Tephrosia virginiana* (Goat's Rue) 2,6
- *Thalictrum thalictroides* (rue anemone) 3
- *Thaspium* sp. (meadow parsnip) 3,4
- *Thelypteris hexagonoptera* (broad beech fern) 3
- *Thelypteris palustris* (marsh fern) 5
- *Tiarella cordifolia* (foamflower) 3
- *Tipularia discolor* (Crane-fly orchid) 2,3,4
- *Toxicodendron pubescens* (poison oak) 2,3,4,6!!\*\*\* (formerly *rhus* genus)
- *Toxicodendron radicans* (poison ivy) 2,3,4,6!!\*\*\* (formerly *rhus*)
- *Tridens flavus* (purpletop grass) 6\*\*\*
- *Trillium catesbaei* (Piedmont trillium) 3
- *Trillium discolor* (pale yellow trillium) 4
- *Trillium rugelii* (Southern nodding trillium) 4
- *Uniola latifolia* (river oats) 4
- *Uvularia perfoliata* (perfoliate bellwort) 3
- *Uvularia sessilifolia* (sessile-leaved bellwort) 3
- *Veratrum parviflorum* (false hellebore) 3

- *Vernonia noveboracensis* (Ironweed) 2,4,6 !!\*\* especially damp areas
- *Vicia caroliniana* ( Carolina vetch) 3
- *Viola palmata* (palmate-leaved violet) 3
- *Viola pedata* (bird's-foot violet) 1,2
- *Viola sororia* (common violet) 3,4
- *Viola tripartita* (tripartite violet) 3
- *Vitis rotundifolia* (muscadine) 4
- *Vitais* (sp) (fox grape vs possum grape) 3,4
- *Yucca filamentosa* (hairy yucca) 1,2

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