Year	Date	Activities		
Year 2	May 20-21, 2010	This late spring collection trip was conducted in order to make a second trip to collect plants that flower in the late spring that we missed or did not collect in 2009. The duplicate trip for each of the season increased the number of plant species to allow for us to making a complete plant list of the area. This collection team consisted on four people and took 2 days. A summer trip was not conducted during year 2 due to the drought conditions. Collectors: Kelly Haile (25 hrs), Robert Haile (25 hrs) , Stephan Hatch (25 hrs) & Erin Wied (25 hrs) Total=100 hrs		
Year 3	Jun 27-28, 2011	The first collection trip during year 3 was delayed due to the lack of rain. This trip was made to observe the effects of the lack of rain and to make early summer plant collections. This gave us the opportunity to collect plants that we missed with the later spring and mid-summer collection trip previously conducted. This trip was also made to observe areas that we had not currently been to, to be sure that the same vegetation was in these areas and that we did not miss any plants. This team consisted on three people and took 2 days. Collectors: Kelly Haile (24 hrs), Katherine Haile (24 hrs), & Stephan Hatch (24 hrs) Total= 72 hrs		
	Aug 10, 2011	This trip was conducted for primarily mapping reason, to visit some of the areas that we had not visited and did not show a location point on the map. When visiting these sites, a location point was taken and the vegetation was observed to be sure that there was no new plant species that was not previously collected. This team consisted of two people and took 1 day. Observers: Kelly Haile (8 hrs) & George Umphres (8 hrs) Total=16 hrs		
	September 9-10, 2011	This trip was designed to conduct transects for the Indicator Species Analysis and Cluster Analysis that was conducted on the Canyonlands Unit. 17 transect were conducted during this trip. Along with conducting transects plant species were observed and if a new on was found it was collected, pressed and added to the species list. This team consisted of two people and took 2 full days. Observers: Kelly Haile (20 hrs) & George Umphres (20 hrs) Total= 40 hrs		

November 14-15, 2011	This trip was conducted in order to complete the goal of 25 transects for the Indicator Species Analysis and Cluster Analysis for the Canyonlands Unit. This team consisted of two people and took 2 days.	
	Observers: Kelly Haile (15 hrs) & Robert Haile (15 hrs) Total= 30 hrs	
	Total hours in Field since May 2010=258	
Identification/verification of plants	Multiple people had a hand in identifying and verifying the vascular plants collected at the Canyonlands Unit. Below is a list of hours spent on this portion of the project. Stephan Hatch (20 hrs) Dale Kruse (10 hrs) Kelly Haile (75 hrs) Total hours spent on identification= 105	

Below is a list of the family and genera of the vascular plants that have been collected and identified from the Canyonlands Unit of the Big Thicket National Preserve. Over 700 collections have been made throughout the time spent collecting in the Canyonlands Unit. There is a list of 376 different plant species. A species name is given for 38 of these plants. Not all the species are listed due to future publication. The number behind the genus in parenthesis indicates the number of species within that genus yet to be reveled. If no number follows a genus there is only one species found in that genus. The full report will all the species identified will be given once the project is completed and the work is published.

Pteridophyta

ASPLENIACEAE

Asplenium

BLECHNACEAE

Woodwardia

DRYOPTERIDACEAE

Athyrium

Onoclea

Polystichum

LYGODIACEAE

Lygodium

OSMUNDACEAE

Osmunda (2)

POLYPODICAEAE

Pleopeltis

PTERIDACEAE

Pteris

THELYPTERIDACEAE

Thelypteris

Pinophyta

PINACEAE

Pinus taeda

Pinus echinata

TAXODIACEAE

Taxodium distichum

Magnoliophyta: Liliopsida

AGAVACEAE

Yucca

ALISMATACEAE

Sagittaria

ARACEAE

Arisaema (2)

ARECACEAE

Sabal

BROMELIACEAE

Tillandsia

BURMANNIACEAE

Apteria

COMMELINACEAE

Commelina

Tradescantia

CYPERACEAE

Carex (10)

Cyperus (6)

Rhynchospora (4)

Scirpus

Scleria (2)

IRIDACEAE

Sisyrinchium (2)

JUNCACEAE

Juncus (5)

Luzula

LILIACEAE

Allium

Hypoxis

Nothoscordum

Trillium

POACEAE

Agrostis

Andropogon (4)

Andropogon virginicus

Aristida (4)

Arundinaria

Axonopus fissifolius

Brachyelytrum.

Briza

Chasmanthium (2)

Cynodon dactylon

Dichanthelium (12)

Digitaria

Echinochloa walterii

Eragrostis (4)

Gymnopogon

Leersia (3)

Lolium

Melica

Mnesithea

Oplismenus

Panicum (6)

Panicum anceps

Paspalum (3)

Paspalum notatum Paspalum setaceum Paspalum urvillei Piptochaetium Poa(2)Saccharum Schizachyrium scoparium Sorghastrum Sphenopholis (2) Sporobolus (2) Tridens Vulpia PONTEDERIACEAE

Eichhornia

SMILACACEAE

Smilax (7)

TYPHACEAE

Typha (2)

XYRIDACEAE

Xyris

Magnoliophyta: Magnoliopsida

ACANTHACEAE

Justicia

Ruellia

ACERACEAE

Acer(1)

Acer rubrum

ANACARDIACEAE

Rhus

Toxicodendron radicans

ANNONACEAE

Asimina (2)

APIACEAE

Chaerophyllum

Hydrocotyle verticillata

APOCYNACEAE

Amsonia

Trachelospermum

AQUIFOLIACEAE

Ilex(3)

Ilex vomitoria

ARALIACEAE

Aralia

ASCLEPIADACEAE

Asclepias (2)

Cynanchum

ASTERACEAE

Ambrosia

Amphiachyris dracunculoides

Baccharis

Berlandiera (2)

Chrysopsis

Cirsium

Conyza canadensis

Coreopsis (2)

Croptilon

Elephantopus (2)

Erechtites

Erigeron

Eupatorium (4)

Gaillardia

Gamochaeta

Helenium (2)

Helianthus (2)

Heterotheca

Hymenopappus artemisiifolius

Krigia.

Liatris

Mikania scandens

Parthenium

Pityopsis

Pluchea (2)

Pyrrhopappus

Rudbeckia hirta

Verbesina

Vernonia (2)

BERBERIDACEAE

Podophyllum

BETULACEAE

Alnus

Carpinus

Ostrya

BIGNONIACEAE

Bignonia capreilata

Campsis radicans

BORAGINACEAE

Cynoglossum

Heliotropium

Myosotis

BRASSICACEAE

Cardamine

BUDDLEJACEAE

Polypremum

CAMPANULACEAE

Lobelia (3)

Triodanis

Wahlenbergia marginata

CAPRIFOLIACEAE

Lonicera japonica

Lonicera sempervirens

Sambucus (2)

Symphoricarpos

Viburnum (3)

CARYOPHYLLACEAE

Cerastium

CLUSIACEAE

Hypericum (3)

CONVOLVULACEAE

Ipomoea (2)

CORNACEAE

Cornus florida

Nyssa (2)

CYRILLACEAE

Cyrilla

DROSERACEAE

Drosera

ERICACEAE

Lyonia

Rhododendron

Vaccinium (2)

EUPHORBIACEAE

Chamaesyce

Cnidoscolus

Croton (2)

Sapium

Sebastiana

Stillingia

Tragia

FABACEAE

Albizia julibrissin

Baptisia (2)

Cercis canadensis

Chamaecrista fasciculata

Crotalaria

Dalea

Dioclea

Erythrina

Lespedeza

Medicago (1)

Mimosa (2)

Rhynchosia

Sesbania (2)

Strophostyles

Stylosanthes

Tephrosia

FAGACEAE

Castanea

Fagus

Quercus (8)

Quercus marilandica

Quercus stellata

GENTIANACEAE

Sabatia

GROSSULARIACEAE

Itea

HALORAGACEAE

Myriophyllum

Proserpinaca

HAMAMALIDACEAE

Hamamelis (2)

Liquidambar

HIPPOCASTINACEAE

Aesculus

JUGLANDACEAE

Carya (5)

LAMIACEAE

Monarda

Salvia lyrata

Scutellaria (3)

LAURACEAE

Persea

Sassafras

LENTIBULARIACEAE

Utricularia

LINACEAE

Linum

LOGANIACEAE

Gelsemium

MAGNOLIACEAE

Magnolia (2)

MONOTROPACEAE

Monotropa

MORACEAE

Morus

MYRICACEAE

Myrica

OLEACEAE

Chionanthus

Fraxinus (3)

Ligustrum

ONAGRACEAE

Ludwigia

OROBANCHACEAE

Epifagus

OXALIDACEAE

Oxalis (2)

PASSIFLORACEAE

Passiflora

PHYTOLACCACEAE

Phytolacca

PLANTAGINACEAE

Plantago (2)

PLATANACEAE

Platanus occidentalis

POLYGALACEAE

Polygala (3)

POLYGONACEAE

Brunnichia

Polygonum (2)

Rumex

PRIMULACEAE

Anagallis arvensis

Samolus

RANUNCULACEAE

Clematis (3)

Ranunculus (2)

RHAMNACEAE

Berchemia

Ceanothus

Rhamnus

ROSACEAE

Crataegus (2)

Duchesnea

Geum

Prunus (2)

Rubus (2)

RUBIACEAE

Cephalanthus occidentalis

Diodia

Galium (2)

Houstonia (2)

Mitchella

RUTACEAE

Zanthoxylum

SALICACEAE

Populus deltoides

SALVINIACEAE

Salvinia minima

SAPOTACEAE

Sideroxylon

SAURURACEAE

Saururus

SCROPHULARIACEAE

*Mecardoni*a

Scoparia

SOLANACEAE

Solanum

STYRACACEAE

Halesia

SYMPLOCACEAE

Symplocos

ULMACEAE

Celtis

Planera

Ulmus (2)

URTICACEAE

Pilea

VERBENACEAE

Glandularia (2)

Callicarpa americana

Verbena

VIOLACEAE

Viola (2)

VITACEAE

Parthenocissus

Vitis (5)

Phylum	Class	Family	Number of genera	Number of species
Pteridophyta	Filicopsida	8	10	11
Pinophyta	Pinopsida	2	2	3
Magnoliophyta	Liliopsida	16	54	123
Magnolyophyta	Magnoliopsida	72	170	239
	Totals=	98	236	376

Above is a table summarizing the data that we have to this point from the Canyonlands Unit. We currently have 376 plants identified and verified to species. As mentioned before, the entire species list with species names will be released once project is completed and ready for publication.

Comparison of the Grass Flora across Selected Units of the Big Thicket National Preserve

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A comparison was made of the grass flora reported within the Hickory Creek, Beech Creek, Turkey Creek and Canyonlands Units of the Big Thicket National Preserve. These units are compared by number of grass species within each unit along with the different numbers of tribe and genera. A total number of species will be calculated and within each unit. Each species wetland indicator status is presented and the percentages of each indicator value are compared between the different units. The longevity, season of flowering, and origin of each species will also be presented. A special note will be made on species that are considered to be invasive in this region.

These first three sites were chosen because of their location relative to the Canyonlands Unit. The Hickory Creek Unit 668 acres, Turkey Creek Unit 7800 acres, Beech Creek Unit 4856 acres and the Canyonlands Unit 1476 acres.

The species list for the Hickory Creek, Beech Creek and Turkey Creek units are taken from previous floristic studies that have taken place in these units. The species information for the Canyonlands Unit will be from our floristic study of this unit.