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United States Department of the Interior

NATIONAL PARK SERVICE

GEOGRAPHIC INFORMATION SYSTEMS

P.O. Box 25287
Denver, Colorado 80225

~~NATCHEZ TRACE PARKWAY~~
~~PERSONAL~~
~~SECRET. Supt.~~
~~ADM. OFF.~~
~~CONFIDENTIAL~~

1986 JAN 30 AM 10:22

☐ ENGRS. ☐ D & C
☐ RANGERS ☐ CONSERV.
☐ INTERP.

*list placed in
Natchez Library*

January 27, 1986

F1423(472)

Memorandum

To: Superintendent, Natchez Trace Parkway
ATTN: Ray Claycomb, Assistant Chief Interpreter

From: Program Manager, NPFLORA, Geographic Information Systems Field Unit,
Denver

Subject: Review of Vascular Flora Lists from the NPFLORA Data Base

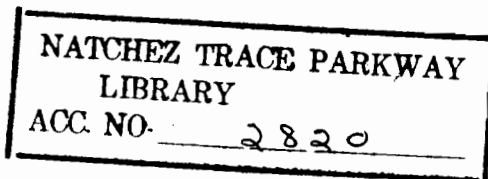
The enclosed listing of vascular plants for your park represents the information in the NPFLORA data base. NPFLORA is a computerized data base of vascular flora in selected units of the National Park System. Various changes have been made to the original source listing that was provided to this office for your park. These changes were necessary to bring the park flora nomenclature into agreement with that used in The National List of Scientific Plant Names, the primary botanical source for NPFLORA. A list of name changes is also enclosed. This should be retained with the Flora List so that one can determine how NPFLORA treats a particular plant as compared with other sources. An article detailing the NPFLORA program from the Spring 1983 issue of Park Science is enclosed.

We would appreciate your review and be happy to answer any questions about the listing. We are particularly interested in erroneous entries and omissions in the data base. If you would be interested in our office providing a special listing, such as a listing of introduced and naturalized plants in your park, or a listing of trees in your park, or a listing of other parks containing a certain plant, etc., please contact me at FTS 776-8798 (commercial 303-236-8798).

Gary S. Waggoner

Gary S. Waggoner

Enclosures



NPFLORA

The NPFLORA data base is a computerized inventory of vascular plants in the National Park System and also includes information on all plants (native or introduced and naturalized) which occur in North America, Hawaii or the Caribbean region. Plant lists from NPS units with a "natural area" of at least 100 acres are being entered into the data base. There currently is a potential maximum of 253 such areas in the National Park System and 6 affiliated areas. However, several of these units lack even minimal plant checklists and they will not be included into the data base until adequate information is available.

Parks are being requested to send checklists to this office for data entry into NPFLORA. Any future updates, additions or deletions, to these lists should also be sent to us for data base updates. Sources used are the best available information on the park's vascular flora but they vary greatly from published journal articles and books to interpreters lists or lists from planning and environmental documents. Authenticity of these lists rests with their respective authors and the plants listed may or may not be substantiated by herbarium specimens. The sources used for each park are identified on the last page of the park flora list under "Park Sources:"

NPFLORA uses as its botanical standard, The National List of Scientific Plant Names (NLSPN), a January 1982 publication (SCS-TP-159) prepared by the Smithsonian Institution under contract to the Soil Conservation Service. Generally, several plant names from each park list require name changes to modernize and standardize them so they agree with the nomenclature used in the NLSPN. A list of name changes required can be provided if desired, as well as the authors for the plant names.

Several codes are used in the attached computer printout to describe basic plant attributes and distribution. In the headings, C, H, and CA refer to the plant's status, native (N) or introduced (I), in the Continental United States and Canada, Hawaii, or the Caribbean region. In some instances, there are data gaps where neither N nor I is listed. We are entering missing data as we obtain it. Other codes used to describe the plant's attributes are:

N	Native	+	Parasitic
I	Introduced	-	Saprophytic
A	Annual	\$	Succulent
B	Biennial	W	Woody
P	Perennial	H	Partly woody
Z	Submergent	G	Grasslike (grasses,
E	Emergent	'	sedges, & rushes)
/	Floating	V	Vines
@	Epiphytic (indicated only if on trees)	F or ;	Herbaceous other than G or V
T	Tree	S	Shrub

Codes used under the "Distribution" heading refer to the geographic regions where the plant occurs and are shown on the accompanying map.

An explanation for interpreting the flora list codes is given here for clarification.

C	H	CA	DISTRIBUTION				
N	I	.	A	P	\$	F	123..6.....H.EM

Reading from left to right, each code has the following meaning:

- This plant is native (N) to the continental United States and Canada.
- This plant is introduced and naturalized (I) in Hawaii.
- This plant is not known to occur in the Caribbean region.
- This plant is an annual (A) in part of its range.
- This plant is a perennial (P) in part of its range.
- This plant is a succulent (\$).
- This plant is herbaceous (F).
- This plant occurs in only the northeast (1), southeast (2), midwest (3) and Texas and Oklahoma (6) regions of the United States as well as in Hawaii (H). It also occurs in two regions of eastern Canada (EM).

Questions, updates and further information about NPFLORA should be directed to: Gary S. Waggoner, NPFLORA Program Manager, Geographic Information Systems Field Unit, WASO, National Park Service, P.O. Box 25287, Denver, CO, 80225-0287. The telephone number is FTS 776-8798 (commercial (303) 236-8798).

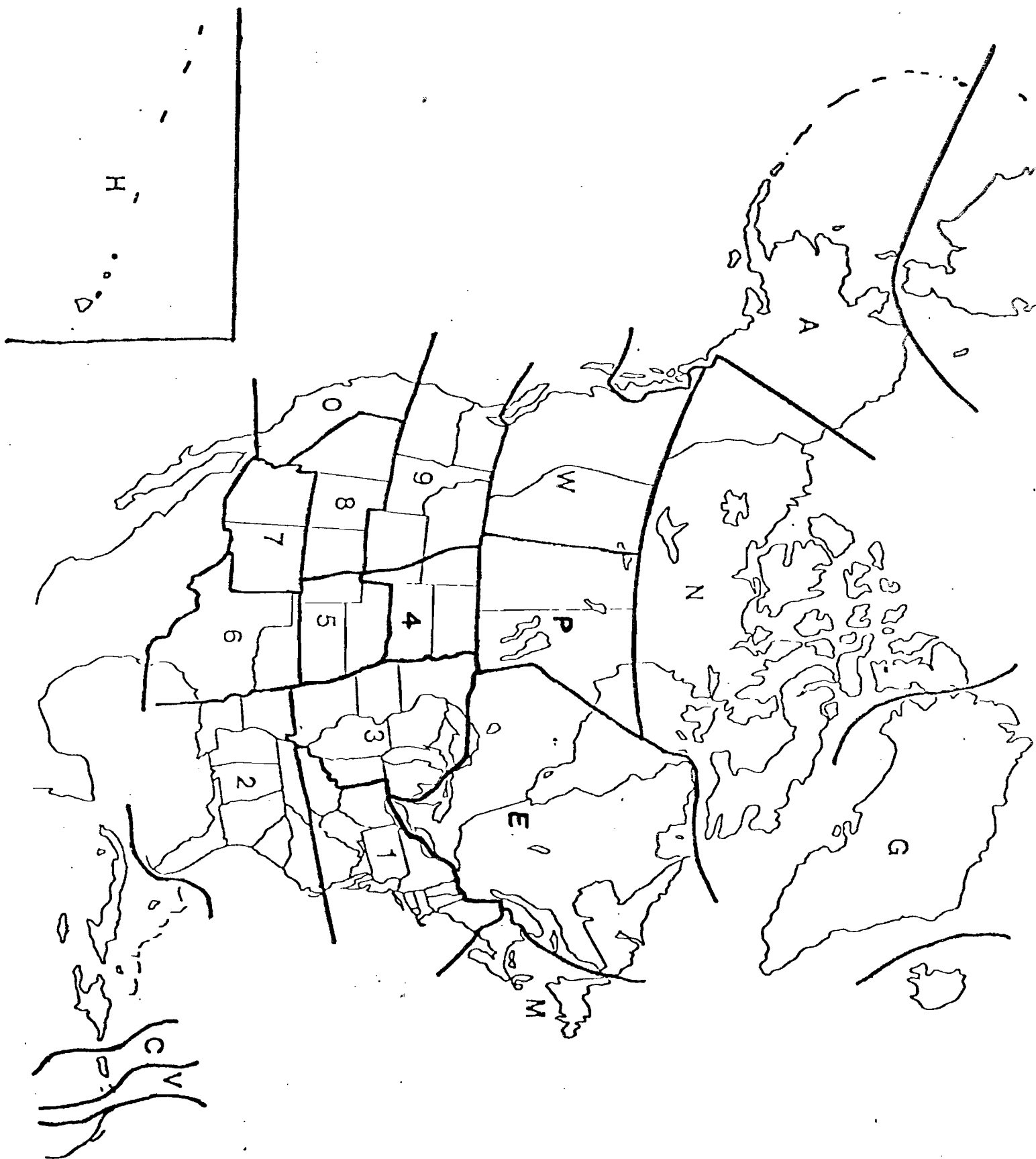


Figure 2: Regional Distribution Map (Taken from NLSPN)

Computerized Data Base Built For Vascular Flora of NP System

By Gary S. Waggoner and
Nancy K. Thorwardson

Over the past several years, a service-wide need has grown to obtain basic information in an accurate, efficient manner about the vascular flora of the National Park System. Recently, the Service has needed information concerning the distribution of plants sensitive to air pollutants, the presence and distribution of exotic versus native species, and rare, threatened, or endangered species in the System. A systematic listing of such plants, called a "flora", for any one park unit has limited value when questions arise concerning species in all or a group of parks.

The collection and merging of these park floras into a single Park Service Flora would enable researchers to address these questions. Consequently, the Air Quality and Natural Science Divisions, Office of Science and Technology, WASO, initiated such a project in FY '82 and requested the Branch of Special Programs, Denver Service Center to construct a computerized data base of vascular flora in the National Park System. The objectives used in designing the data base were described by James P. Bennett in the George Wright Society *FORUM*, Spring 1982 "A Computerized Flora of the National Parks." A core staff of four was formed to conduct the work; Gary S. Waggoner, Project Manager/Botanist; Nancy K. Thorwardson, Data Base Manager; Connie L. Malcolm, Data Entry Technician; and Ronald J. Buss, Computer Consultant.

Seventeen class I park units (those units given the most stringent level of protection from the effects of air pollution under the Clean Air Act as amended in 1977) were chosen for entry into the data base by the Air Quality Division. The 17 units occur in all NPS Regions except Alaska and the National Capital Region. Personnel at the park units were contacted and the latest checklists on floras of vascular plants for each park were obtained.

Two recently produced computerized inventories of the vascular flora of North America are:

A Synonymized Checklist of the Vascular Flora of the United States, Canada, and Greenland — Volume II, The Biota of North America, by John T. and Rosemarie Kartesz, 1980 (The University of North Carolina Press, Chapel Hill, NC); *The National List of Scientific Plant Names*, (NLSPN), a 1982 publication of the Soil Conservation Service (SCS-TP-159), comprised of two separate volumes: Volume I — List of Plant Names, and Volume II — Synonymy.

Both publications are current and represent professional treatments of the Nation's flora but are decidedly different in nomenclature. Our work uses the NLSPN as the principal source document, following its nomenclature and synonymy wherever possible. The Kartesz and Kartesz publication is used whenever the NLSPN does not adequately treat a particular taxon. One of the strongest reasons for making this selection is that the NLSPN includes distribution and habit (information on general characteristics) which is especially useful for the NPS data base:

1. Distribution in North America (including Alaska, Hawaii, Canada, and the Caribbean)
2. Annual/biennial/perennial
3. Native/introduced
4. Submersed/emergent/floating
5. Epiphytic/parasitic/saprophytic
6. Woody/partly woody/succulent
7. Tree/shrub/vine/herbaceous forb-/grasslike herb

The procedure used to develop the NPS data base, called *NPFLORA*, was to enter the appropriate park data to the NLSPN for each plant appearing in the park floras. In numerous instances (an estimated 10 percent of the taxa) recent changes in botanical nomenclature required the project manager to update the scientific names of the plants. In a few cases (less than 1 percent of the taxa) the proper scientific name could not be determined. These problems will be resolved in future consultation with appropriate park staff. Intraspecific taxa at the forma level were not included in the data base. Such taxa are listed at the species, subspecies, or variety level.

The analysis package used with *NPFLORA* is *SYSTEM 2000*, a data base management system developed and maintained by Intel Systems Corporation. *SYSTEM 2000* offers great flexibility in design and use of a data base and, more importantly, in update and revision. Query capabilities are virtually limitless and *SYSTEM 2000* includes a Report Writer Feature that allows the user to define and generate many different report formats.

Levels of information in the data base include: Family, Genus, Species, Intraspecific (subspecies and/or variety), Habit (General Characteristics), Distribution,

Computerized Data Base (continued)

and Parks. The hierarchical, or "tree" structure of the data base allows rapid, effective searches and minimizes file sizes and storage costs. Queries may be made at any level of the hierarchy. For example, a user may wish to determine in which parks *Ranunculus repens* (creeping buttercup) occurs, and to discover the habit and distribution characteristics of the plant. A simple run of SYSTEM 2000 on the NPFLORA data base yields the information presented in Fig. 1.

6* RANUNCULACEAE
12* RANUNCULUS
22* REPENS
41* I
42* I
43*
44* P
45* F
49* 123 . 6 . 890AH . . WEMG
51* OLYM
51* ROMO
51* SHEN
51* GRSM
51* ISRO
51* SEKI

Figure 1: Query about *Ranunculus repens*

The species occurs in 7 of the 19 parks currently in the data base: Olympic, Rocky Mountain, Shenandoah, Great Smoky Mountains, Isle Royale, Sequoia and Kings Canyon. The plant is introduced to the continental United States and Hawaii, is a perennial, and is herbaceous. It occurs in regions 1,2,3,6,8,9,0,A,H,W,E,M, and G (Fig. 2).

The user may also make park-specific queries. For example, a query concerning introduced (exotic) plants in the Black

Figure 3. Introduced Plants in the Black Canyon of the Gunnison NM

Agropyron desertorum
Agrostis alba
Bromus commutatus
Bromus inermis
Bromus tectorum
Poa glauca
Urtica dioica
Brassica juncea
Lepidium perfoliatum
Sisymbrium altissimum
Rubus idaeus
Hypericum perforatum
Tamarix galica
Convolvulus arvensis
Lappula redowskii
Carduus nutans
Cirsium arvense

Canyon of the Gunnison, yields the information that there are 17 (Fig. 3). Further inquiry reveals that these introduced species comprise approximately 8 percent of the total vascular flora in the park, and 35 percent of the introduced species are annuals.

It also is possible to determine the presence of a specific plant in a specific park, such as *Agrostis alba* in Great Smoky Mountains National Park. The examples presented represent only a few of the many query possibilities available. The system is flexible and efficient; the example data were generated in a single run of five minutes.

Currently 7019 taxa of vascular plants, from 19 Class I units, have been entered into NPFLORA. The Class I units are:

Acadia NP
Big Bend NP
Black Canyon of the Gunnison NM
Canyonlands NP
Chiricahua NM
Everglades NP
Great Sand Dunes NM
Great Smoky Mountains NP
Guadalupe Mountains NP
Isle Royale NP
Kings Canyon NP
Lava Beds NM
Mesa Verde NP
Mount Ranier NP
Olympic NP
Rocky Mountain NP
Sequoia NP
Shenandoah NP
Theodore Roosevelt NHP

FLORISTIC DATA ON SELECTED CLASS 1 NPS UNITS

(Data in NPFLORA as of 2/15/83)

Total number of taxa: 7019
Total number of families: 187
Total number of native taxa: 6146
Total number of introduced (exotic) taxa: 655

Percentage of total flora which is native: 88%

Percentage of total flora which is introduced (exotic): 9%

PARK	TOTAL	INTRODUCED %	NATIVE %	UNKNOWN %
ACAD	268	40 (15%)	218 (81%)	10 (4%)
BIBE	960	48 (5%)	902 (94%)	10 (1%)
BLCA	213	17 (8%)	193 (90%)	3 (2%)
CANY	321	23 (7%)	294 (92%)	4 (1%)
CHIR	392	36 (9%)	352 (90%)	4 (1%)
EVER	809	127 (16%)	642 (79%)	40 (5%)
GRSA	246	14 (6%)	231 (93%)	3 (1%)
GRSM	1419	238 (17%)	1127 (79%)	54 (4%)
GUMO	889	46 (5%)	833 (94%)	10 (1%)
ISRO	688	89 (13%)	587 (85%)	12 (2%)
LABE	234	31 (13%)	201 (85%)	2 (1%)
MEVE	422	54 (13%)	361 (85%)	7 (2%)
MORA	478	48 (10%)	418 (87%)	12 (3%)
OLYM	1226	239 (19%)	972 (79%)	17 (1%)
ROMO	893	59 (7%)	822 (92%)	12 (1%)
SEKI	1834	130 (7%)	1667 (91%)	37 (2%)
SHEN	1021	203 (20%)	772 (76%)	46 (5%)
THRO	314	31 (10%)	276 (88%)	7 (2%)

TOTALS: 12,631 1473 10,868 290
AVERAGE: 702/park 82/park (12%) 604/park (86%) 16/park (2%)

Editor's Note: Park Science will print an up-date of this Data on a semi-annual basis.

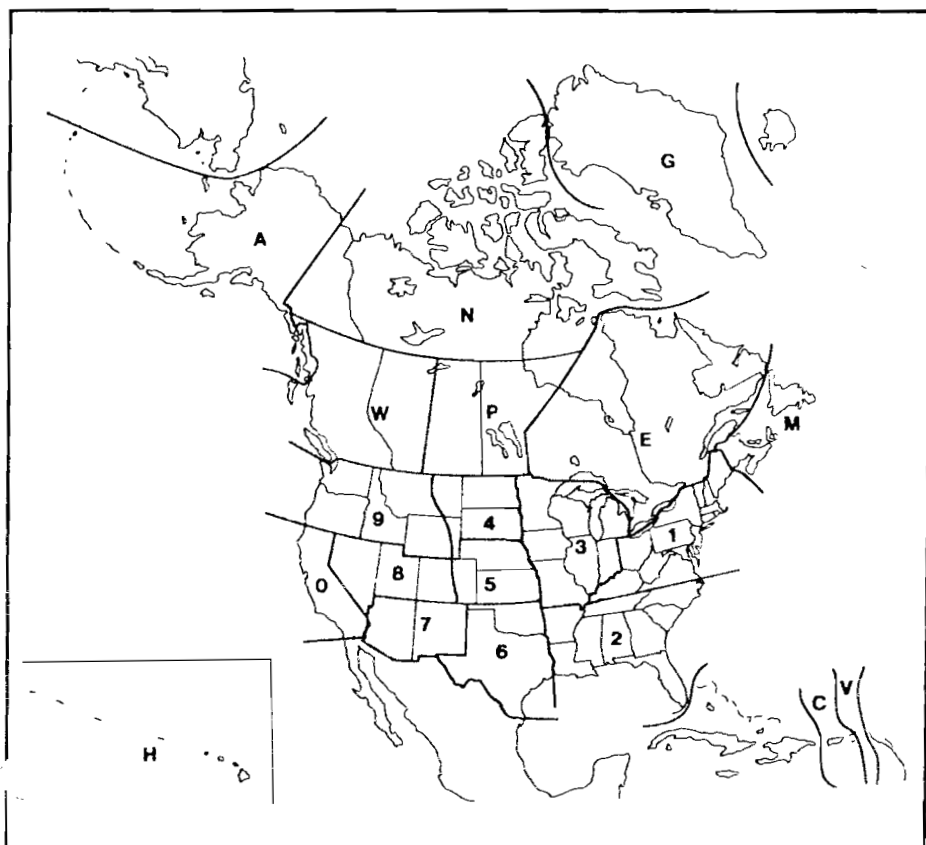


Figure 2: Regional Distribution Map (Taken from NLSPN)

The 19 units represent 40 percent of the total number of Class I parks and 6 percent of the total units in the System. Table I contains summary data for the *NPFLORA* data base.

The goal for FY'83 is to enter into *NPFLORA* 30 additional floras, with priority given to Class I units. In addition, a survey is being conducted to identify those units for which reasonably complete floras are available. Plans for the future include the entry of all available floras, thus providing the National Park Service with a valuable tool for science and resource management.

The development of *NPFLORA* is being funded jointly by the Air Quality and the Natural Science Divisions, WASO. The choice of parks that are entered into the data base is made by scientists in those divisions. Copies of the FY '82 Status Report were recently sent to all Regional Chief Scientists and Regional Air Quality coordinators. At this time, the Science and Remote Sensing Sections will perform searches and queries of the data base at no cost, but in the future, users will pay for requested searches. If you have questions or queries of the data base, please contact the authors in the Denver Service Center (FTS 234-4527) or the Air Quality Division (FTS 234-6620).

Thorwardson is a geographer and Waggoner is a plant ecologist at the NPS Denver Service Center.



FLORA LIST FOR NATCHEZ TRACE PARKWAY*
01/08/1986

FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
ACANTHACEAE	JUSTICIA	AMERICANA		N	-	-	123.56.....E
	RUELLIA	OVATA		N	-	-	.23..6.....
	ACER	CAROLINIENSIS	VAR LANCEOLATA	N	-	-	12...6.....
		HUMILIS		N	-	-	123.56.....
		NEGUNDO		N	-	-	123456.....PEM
		RUBRUM		N	-	-	123...6.....EM
		SACCHARINUM		N	-	-	123456.8.....PEM
		SACCHARUM		N	-	-	123456.8.....EM
			SSP NIGRUM	N	-	-	12345.....E
AIZOACEAE	MOLLUGO	VERTICILLATA		N	-	N	1234567890...C.WEM
ALISMATACEAE	ECHINODORUS	CORDIFOLIUS		N	I	-	123.56.....HC.
	SAGITTARIA	ENGELMANNIANA		N	-	-	123.....
AMARANTHACEAE	AMARANTHUS	HYBRIDUS		N	-	-	12345678.O....PE
		SPINOSUS		N	I	N	123.56...O.HC.PE
AMARYLLIDACEAE	HYMENOCALLIS	OCCIDENTALIS		N	-	-	.23.....
	HYPOXIS	HIRSUTA		N	-	-	123456.....PE
	MANFREDA	VIRGINICA		N	-	-	123...6.....
ANACARDIACEAE	COTINUS	OBOVATUS		N	-	-	.23..6.....
	RHUS	COPALLINUM		N	-	-	123.56.....
		GLABRA		N	-	-	1234567890...WPE
		TYPHINA		N	-	-	12345.....EM
	TOXICODENDRON	QUERCIFOLIA		N	-	-	123.56.....
		RADICANS		N	-	-	123...6.....EM
		VERNIX		N	-	-	123..6.....E
ANNONACEAE	ASIMINA	TRILOBA		N	-	-	123.56.....E
APCYNACEAE	AMSONIA	TABERNAEMONTANA		N	-	-	123.56.....
	APOCYNUM	CANNABINUM		N	-	-	123.56.....
	TRACHELOSPERMUM	DIFFORME		N	-	-	1234567890...WEM
AQUIFOLIACEAE	ILEX	CORIACEA		N	-	-	123..6.....
		DECIDUA		N	-	-	12...6.....
		OPACA		N	-	-	123.56.....
		VERTICILLATA		N	-	-	123..6.....EM
ARACEAE	ARISAEMA	VOMITORIA		N	-	-	12...6.....
		DRACONTIUM		N	-	-	123.56.....E
		TRIPHYLLUM		N	-	-	123456.....PEM
			SSP PUSTILLUM	N	-	-	123..6.....
ARALIACEAE	ARALIA	RACEMOSA		N	-	-	12345678.....PEM
		SPINOSA		N	-	-	123..6.....E
ASCLEPIADACEAE	ASCLEPIAS	PERENNIS		N	-	-	123..6.....
		TUBEROSA		N	-	-	12.45678.....
		VARIEGATA		N	-	-	123...6.....
		VERTICILLATA		N	-	-	1234567.9....PE
		VIRIDIFLORA		N	-	-	123456789....WPE
		VIRIOIS		N	-	-	123.56.....
		GONOCARPA		N	-	-	123.56.....
BAL SAMINACEAE	MATELEA	IMPATIENS		N	-	-	123456.89.A...NW
BERBERIDACEAE	PODOPHYLLUM	CAPENSIS		N	-	-	123.56.....EM
BETULACEAE	ALNUS	PELTATUM		N	-	-	123.56.....M
	BETULA	SERRULATA		N	-	-	123.56.....
	CARPINUS	NIGRA		N	-	-	123.56.....
	CORYLUS	CAROLINIANA		N	-	-	123..6.....E
	OSTRYA	AMERICANA		N	-	-	123456.....PE
BIGNONIACEAE	BIGNONIA	VIRGINIANA		N	-	-	123456.....PEM
		CAPREOLATA		N	-	-	123..6.....

FLORA LIST FOR NATCHEZ TRACE PARKWAY
01/08/1986

3

FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
ANTENNARIA ANTHEMIS ARCTIUM ARNOGLOSSUM ARTEMISIA ASTER	ANTENNARIA	PLANTAGINIFOLIA		N	.	.	123456.....EM
		SOLITARIA		N	.	.	123.....
	ANTHEMIS	COTULA		I	I	.	1234567890AH..NWPEM
	ARCTIUM	MINUS		I	.	.	1234567890....WPEM
	ARNOGLOSSUM	ATRIPLICIFOLIUM		.	.	.	123.5.....
		OVATUM		.	.	.	.2...6.....
	ARTEMISIA	ANNUA		I	.	.	123.567.9.....EM
	ASTER	CONCOLOR		N	.	.	12.....
		CORDIFOLIUS		N	.	.	123.5.....EM
		DUMOSUS		N	.	.	123..6.....E
BACCHARIS BIDENS BOLTONIA CIRSIUM		INFIRMUS		N	.	.	12.....
		LATERIFLORUS		N	.	.	123456.....PEM
		LINARIIFOLIUS		N	.	.	123.56.....EM
		NOVAE-ANGLIAE		N	.	.	123456789.....PE
		PALUDOSUS		N	.	.	.2.....
		PATENS	VAR GRACILIS	N	.	.	123.....
		PILOSUS		N	.	.	123456..9.....EM
		PRAEALTUS		N	.	.	123.567.....PE
		SHORTII		N	.	.	123.....E
		SOLIDAGINEUS		N	.	.	123.....
CONOCLINIUM CONYZA COREOPSIS		SUBULATUS	VAR LIGULATUS	N	.	.	.23.5678.O.....EM
		UNDULATUS		N	.	.	123.....
	BACCHARIS	HALIMIFOLIA		N	.	N	12...6.....C.
	BIDENS	ARISTOSA		N	.	S	123..6.....
		CERNUA		N	.	A	1234567890A...NWPEM
		POLYLEPIS		I	.	A	123.56.....
	BOLTONIA	ASTEROIDES		N	.	A	12.456.....P
		DIFFUSA		N	.	P	123..6.....
	CIRSIUM	ALTISSIMUM		N	.	B	123456.....
		CAROLINIANUM		N	.	B	123..6.....PE
COSMOS DRACOPIIS ECHINACEA ECLIPTA ELEPHANTOPUS		DISCOLOR		N	.	B	12345.....
		HORRIDULUM		N	.	P	12...6.....
	CONOCLINIUM	COELESTINUM		N	.	P	123.56.....
	CONYZA	CANADENSIS		N	.	I	12345678.O.H..NWPEM
		LANCEOLATA	VAR PUSILLA	N	.	N	123..67...H..
		MAJOR		N	.	P	123.56.....WE
		TINCTORIA		N	.	P	12.....
		TRIPTERIS		N	.	A	1234567.90....WPE
	COSMOS	BIPINNATUS		I	.	P	123.56.....E
	DRACOPIIS	AMPLEXICAULIS		N	.	A	123.567..O....E
EREGHTITES ERIGERON EUPATORIADDELPHUS	ECHINACEA	PURPUREA		N	.	A	.234567.....
	ECLIPTA	ALBA		N	.	P	123.56.....E
	ELEPHANTOPUS	CAROLINIANUS		N	I	N	1234567..O.HC.E
		TOMENTOSUS		N	.	P	123.56.....
	EREGHTITES	HIERACIIFOLIA		N	.	P	12...6.....
	ERIGERON	ANNUUS		N	I	N	123456..90.HC.EM
		PHILADELPHICUS		N	.	A	123456..90....WPEM
		PULCHELLUS		N	.	B	1234567890...NWPEM
		STRIGOSUS		N	.	P	123.56.....EM
	EUPATORIADDELPHUS	TENUIS		N	.	A	123456.890....WPEM
		FISTULOSUS		N	.	P	.23.56.....
				N	.	.	123..6.....

4

FLORA LIST FOR NATCHEZ TRACE PARKWAY
01/08/1986

5

FAMILY	GENUS	SPECIES	VAR	INFRA SPECIES	C	H	CA		DISTRIBUTION
CONVOLVULACEAE	RUDBECKIA	FULGIDA		UMBROSA	.	.	.	P	123.
		HIRTA			N	.	.	B	123456789. WPEM
	SENECIO	LACINIATA			N	.	.	F	123456789. PEM
		TRILOBA			N	.	.	F	123. 56. E
		GLABELLUS			N	.	.	A	123. 56.
		ASPERIMUM			N	.	.	F	23. . 6.
	SILPHIUM	ASTERISCUS			N	.	.	F	123.
		INTEGRIFOLIUM			N	.	.	F	23. 56.
		PERFOLIATUM			N	.	.	F	123. 56. E
		TEREBINTHINACEUM			N	.	.	F	123. E
CORNACEAE	SMALLANTHUS	ALTISSIMA			.	.	.	F	123. 56.
		CAESIA			N	.	.	F	1234567890. E
		CANADENSIS			N	.	.	F	123. . 6. EM
		DISCOIDEA			N	.	.	F	1234. . 789. NWPEM
	SOLIDAGO	ERECTA			N	.	.	F	2.
		GIGANTEA			N	.	.	F	123.
		HISPIDA			N	.	.	F	123456789. WEM
		NEMORALIS			N	.	.	F	123. . 6. PEM
	SONCHUS	ODORA			N	.	.	F	123456789. WPEM
		PATULA			N	.	.	F	123. . 6.
CONVOLVULACEAE	XANTHIUM	RIGIDA			N	.	.	F	123. E
		RUGOSA			N	.	.	F	12345678. E
		SPECIOSA			N	.	.	F	123. EM
		OLERACEUS			N	.	.	F	123456.
	VERNONIA	AMERICANA			N	.	.	F	1234567890AHC. NWPEMG
		VULGARE			I	I	I	F	123.
		ALTERNIFOLIA			I	I	I	F	1234567890AH. WPEM
		HELIANTHOIDES			N	.	.	F	123. 56. E
	XANTHIUM	VIRGINICA			N	.	.	F	123. 56.
		GIGANTEA			N	.	.	F	123. 56. E
CONVOLVULACEAE	XANTHIUM	MISSURICA			N	.	.	F	123. 56.
		STRUMARIUM			N	.	.	F	123. 56.
		SEPIUM			N	.	.	F	123. . 67. 90.
		GLABRATUM	VAR		I	.	.	F	12. 4. . . . 9. WPEM
	IPOMOEA	AMERICANA	SSP		N	.	.	F	1. 3.
		CAMPESTRIS			N	I	N	F	123. . 67890. HC.
		COMPACTA			N	.	.	F	123. 56.
		GRONOVII			N	.	.	F	1234567. WPEM
	JACQUEMONTIA	HERDERACEA			I	.	.	A	123. 567. . O. . . . E
		LACUNOSA			N	.	.	A	123. 56.
		PANDURATA			N	.	.	F	123. 56. E
		PURPUREA			I	.	.	A	1234567890. . . . E
CONVOLVULACEAE	STYLISMA	WRIGHTII			I	.	I	V	2. . . . 6. . . . C.
		TAMNIFOLIA			I	.	N	V	12. . . 6. . . . C.
		HUMISTRATA			N	.	.	F	12. . . 6. . . . C.
		AMOMUM			N	.	.	F	123. E
	CORNUS	ASPERIFOLIA			N	.	.	S	2.
		DRUMMONDII			N	.	.	S	123456. E
		FLORIDA			N	.	.	T	123. 56. E
		FOEMINA			N	.	.	S	123. . 6.
	NYSSA	AQUATICA			N	.	.	T	123. . 6. E
		SYLVATICA			N	.	.	T	12. . . 6.

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA			DISTRIBUTION
CRASSULACEAE	PENTHORUM	SEDIOIDES		N	.	.	P	F	123456.....PEM
CRUCIFERAE	SEDUM	PULCHELLUM		N	.	.	A	B	123.56.....
	ARABIDOPSIS	THALIANA		I	.	.	A	F	1234.6..90....WE
	BARBAREA	VERNA		I	.	.	B	F	123....90....WM
	CAPSELLA	BURSA-PASTORIS		I	I	.	A	F	1234567890AH..NWPEMG
	CARDAMINE	ANGUSTATA		N	.	.	P	F	123.....
		BULBOSA		N	.	.	P	F	123456.....PE
		PARVIFLORA		I	.	.	A	F	.2..5.....NWPEM
	DRABA	BRACHYCARPA		N	.	.	A	F	123.567.9....
		VERNA		I	.	.	A	F	123....90....WE
	LEPIDIUM	VIRGINICUM		N	I	N	A	B	123456.890AHC WEM
	NASTURTIUM	OFFICINALE		I	.	I	P	Z	1234567890..C.WPEM
	SIBARA	VIRGINICA		N	.	.	A	F	123.56...O....
	SISYMBRIUM	OFFICINALE		I	I	.	A	F	1234567890AH..WPEMG
CUCURBITACEAE	MELOTHRIA	PENDULA		N	.	.	P	V	123.56.....
CYPERACEAE	CAREX	ANNECTENS		N	.	.	P	G	123.56.....
		FLACCOSPERMA		N	.	.	P	G	123.56.....
		HIRSUTELLA		N	.	.	P	G	123.56.....
		LURIDA		N	.	.	P	G	123.56.....
	CYPERUS	OVULARIS		N	.	.	P	G	123.56.....E
		PSEUDOVEGETUS		N	.	.	P	G	123.56.....EM
		RETROFRACTUS		N	.	.	P	E	123.56.....E
		ROTUNDUS		I	I	N	P	G	123..67..O.HC.
	RHYNCHOSPORA	STRIGOSUS		N	.	.	P	E	1234567890....PE
		CORNICULATA		N	.	.	P	E	123..6.....
		GLOBULARIS		N	.	N	P	E	123..6...O..C.
	SCIRPUS	CYPERINUS		N	.	.	P	E	123..6..9....NWPEM
		KOILOLEPIS		N	.	.	A	G	.2..56.....
		POLYPHYLLUS		N	.	.	P	E	123.....
		VILLOSA		N	.	.	P	V	123.56.....C.E
DIOSCOREACEAE	DIOSCOREA	VIRGINIANA		N	.	I	P	T	123.56.....
EBENACEAE	DIOSPYROS	HYEMALE		N	.	.	P	F	1234567890A..NWPEM
EQUISETACEAE	EQUISETUM	LATIFOLIA		N	.	.	S	T	123.....
ERICACEAE	KALMIA	LIGUSTRINA		N	.	.	S	T	12..6.....
	LYONIA	ARBOREUM		N	.	.	T		123.....
	OXYDENDRUM	CANESCENS		N	.	.	S		.2..6.....
	RHODODENDRON	ARBOREUM		N	.	.	S		123.56.....
	VACCINIUM	ARBOREUM		N	.	.	S		123..6.....EM
		CORYMBOSUM		N	.	.	S		123.56.....E
		STAMINEUM		N	.	.	A	F	123456.....EM
		RHOMBOIDEA		N	.	.	A	F	123456.....
		VIRGINICA		N	.	.	A	F	123456.....E
		CAPITATUS		N	.	N	A	F	.2..5.....C.
		GLANDULOSUS		N	.	.	A	F	123.56.....E
		COMMUTATA		N	.	.	P	F	123456.....E
		COROLLATA		N	.	.	A	F	1234567.90....EM
		MACULATA		N	.	.	S		.2..6.....
		FRUTICOSA		N	.	.	S		12..6.....
		ALNIFOLIA		N	.	.	T		123..6.....E
		DENTATA		N	.	.	T		123..6.....EM
		GRANDIFOLIA		N	.	.	T		123.56.....E
		ALBA		N	.	.	T		123..6.....
		BOREALIS		N	.	.	T		123..6.....
		COCCINEA		N	.	.	T		123..6.....
FAGACEAE	SEBASTIANIA								
	CASTANEA								
	FAGUS								
	QUERCUS								

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
GENTIANACEAE	GENTIANA	FALCATA		N	.	.	123..6.....
		LAURIFOLIA		N	.	.	12...6.....
		LYRATA		N	.	.	123..6.....
		MARILANDICA		N	.	.	123..56.....
		MICHAUXII		N	.	.	123..6.....
		MONTANA		N	.	.	..2.....
		MUHLENBERGII		N	.	.	123..567.....E
		NIGRA		N	.	.	123..6.....
		PHELLOS		N	.	.	123..6.....
		PRINUS		N	.	.	123..6.....E
GERANIACEAE	GERANIUM	RUBRA		N	.	.	123..56.....EM
		SHUMARDII		N	.	.	123..56.....
		STELLATA		N	.	.	123..56.....
		VELUTINA		N	.	.	123..56.....E
		VIRGINIANA		N	.	.	12...6.....
		SAPONARIA		N	.	.	123..6.....
		VILLOSA		N	.	.	123.....
		VIRGINICA		N	.	.	123..6.....
		ANGULARIS		N	.	.	123..56.....
		SABATIA		N	.	.	123.....E
GRAMINEAE	AGROSTIS	SWERTIA		N	.	.	123.....E
		MACULATUM		N	.	.	123456.....E
		SPHAEROSPERMUM		N	.	.	1234567890....WPE
		HYEMALIS		N	.	.	123456.....
		PERENNANS		N	.	.	123456..89.....EM
		ELEGANS		N	I	.	123..6..90.H....
		GERARDII		N	.	.	123456789.....PE
		GLOMERATUS		N	I	N	12...678.O.HC.
		TERNARIUS		N	.	.	123..56.....
		VIRGINICUS		N	I	N	123..56...O.HC.
	ANTHOXANTHUM	ODORATUM		I	I	.	123....90AH...WPEMG
		OLIGANTHA		N	.	.	1234567..90.....
		GIGANTEA		N	.	.	123..6.....
		DONAX		I	.	I	123..678.O...C.
		AFFINIS		N	.	.	..2...6.....
		MINOR		I	.	.	123..6..90....W
		COMMUTATUS		I	.	.	1234567890A....
		JAPONICUS		I	.	.	1234567890....WPE
		LATIFOLIUM		N	.	.	123..567.....
		SESSILIFLORUM		N	.	.	123..6.....
	CHASMANTHIUM	ARUNDINACEA		N	.	.	123456.....E
		DACTYLON		I	I	I	123..567890.HC.WEM
		GLOMERATA		I	I	.	1234567890AH...WPEMG
		SERICEA		N	.	.	123..6..9.A....
		COMMUTATUM		N	.	.	123..6.....E
		SCOPARIUM		.	.	N	123..56.....
		VAR ISOPHYLLUM		.	.	.	123..6.....
		SPHAEROCARPON		.	.	.	123..6.....
		SANGUINALIS		I	I	N	1234567890.HC.WPEM
		CRUSGALLI		I	.	A	1234567890....WPEM
	DIGITARIA	INDICA		I	I	I	1234567890.HC.E
		VIRGINICUS		N	.	P	123456789.....WPEM
		INTERMEDIA		N	.	.	..2...67.....
		ALOPECUROIDES		N	.	P	123..6.....
		CONTORTUS		N	.	P	12...6.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
JUNCACEAE	JUNCUS	BRACHYCARPUS		N	.	.	123.56.....E
		EFFUSUS		N	I	.	.2.....AH...WEM
	LUZULA	MARGINATUS		N	.	.	12345678.O.....EM
		ECHINATA		N	.	.	123..6.....
LABIATAE	BLEPHILIA	MULTIFLORA		N	.	.	12345...9.A...NG
		CILIATA		N	.	.	123.56.....E
		ORIGANOIDES		N	.	.	123.56.....
		HEDERACEA		I	.	.	123456.890A...WPEM
	GLECOMA	PULEGIOIDES		N	.	.	123.5.....EM
		HEDEOMA		I	.	.	1234567890...NWPEMG
		LAMIUM		I	.	.	123456789...WPEM
		LEONURUS		I	.	.	123.56.....
	LYCOPUS	VIRGINICUS		N	.	.	123.567890A...WPEM
		SPICATA		I	.	.	123456.89.....
		FISTULOSA		N	.	.	123.56.....
		RUSSELLIANA		N	.	.	123.567890A...WPEM
	NEPETA	CATARIA		I	.	.	123.56.....
		FRUTESCENS		I	.	.	1234567.....
		VIRGINIANA		N	.	.	1234567890.H...WPEM
		VULGARIS		I	I	.	.23.56.....
LAURACEAE	PRUNELLA	ALBESCENS		N	.	.	123.5.....
		ALBESCENS		N	.	.	123.....
		FLEXUOSUM		N	.	.	123.....
		LOOMISII		N	.	.	123.....
	Pycnanthemum	LYRATA		N	.	.	123.56.....
		URTICIFOLIA		N	.	.	12.....
		INCANA		N	.	.	123.56.....
		INTEGRIFOLIA		N	.	.	12..6.....
LEGUMINOSAE	SCUTELLARIA	LATERIFLORA		N	.	.	1234567.90...WPEM
		OVATA		N	.	.	1.3.....
		PARVULA		N	.	.	123.56.....E
		AGRARIA		N	.	.	.2...67.....
	STACHYS	TENUIFOLIA		N	.	.	123456.....
		CANADENSE		N	.	.	12..6.....EM
		DICHOTOMUM		N	.	.	123..6.....
		BENZOIN		N	.	.	123.56.....E
	TEUCRIUM	ALBIDUM		N	.	.	123.56.....E
		JULIBRISSIN		N	.	.	123..678.O.....
		FRUTICOSA		I	.	.	123456.8.....E
		BRACTEATA		N	.	.	123456.....PEM
	AMORPHA	AMERICANA		N	.	.	123456.8.....EM
		LACTEA		N	.	.	123.56.....E
		FASCICULATA		N	.	.	123456.....
		MARILANDICA		N	.	.	123.56.....
	CASSIA	NICTITANS		N	.	.	123.56.....
		OBTUSIFOLIA		N	.	.	123.56.....C.
		OCCIDENTALIS		N	I	N	123.56.....HC.
		VIRGINIANUM		N	.	N	12..6.....C.
CENTROSEMA	CERCIS	CANADENSIS		N	.	.	123.56.....
		KENTUCKIA		N	.	.	123.6.....
		MARIANA		N	.	.	123.567.....
		SAGITTALIS		N	.	N	123456.....C.
	CLADRASTIS	SPECTABILIS		I	I	.	12...6.....H...
		CANDIDA		N	.	.	123456.....WPE
		PURPUREA		N	.	.	123456789.....WPE
				N	.	.	
	CLITORIA			N	.	.	
				N	.	.	
DALEA	CROTALARIA			N	.	.	
				N	.	.	
				N	.	.	
				N	.	.	
	DALEA			N	.	.	
				N	.	.	
				N	.	.	
				N	.	.	
	DALEA			N	.	.	
				N	.	.	

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
DESMODIUM	DESMODIUM	ILLINOENSIS		N	.	.	12345678.....
		ACUMINATUM		.	.	.	.2.....
		CANESCENS		N	.	.	123.56.....E
		CILIARE		N	.	.	123.56.....E
		CUSPIDATUM		N	.	.	123.56.....E
		NUDIFLORUM		N	.	.	123.56.....E
		PANICULATUM		N	.	.	123.56.....E
		PAUCIFLORUM		N	.	.	123.56.....E
		ROTUNDIFOLIUM		N	.	.	123.56.....E
		SESSILIFOLIUM		N	.	.	123.56.....E
GLADIOLUS	GLADIOLUS	MULTIFLORA		N	.	.	12...6.....
		HERBACEA		N	.	.	.2...6.....
		MACREEI		N	.	.	12...6.....
		VOLUBILIS		N	.	.	123.56.....
		TRIACANTHOS		N	.	.	1234567890....EM
		HIRSUTUS		I	.	.	123...6...90....
		PUSILLUS		N	.	.	.23.56...9.....W
		HIRTA		N	.	.	123.56.....E
		REPENS		N	.	.	123.56.....
		STIPULACEA		I	.	.	123.56.....
LEPIDEA	LEPIDEA	STRATA		I	.	.	123.56.....
		VIRGINICA		N	.	.	123.56.....E
		ARABICA		I	.	.	123...6...90....WM
		POLYMORPHA		I	.	.	123...67890AH...WPE
		SATIVA		I	.	.	1234567890AHC.NWPEM
		ALBA		I	.	.	1234567890AHC.NWPEM
		OFFICINALIS		I	.	.	1234567890AHC.NWPEM
		POLYSTACHYUS		N	.	.	1234567890AH...NWPEM
		PSORALIOIDES		N	.	.	1234567890AH...NWPEM
		LATIFOLIA		N	.	.	123456.8.0....
STYLOSANTHES	STYLOSANTHES	TOMENTOSA		N	.	.	12...5.....
		PSEUDOACACIA		N	.	.	.23...6.....
		MICROPHYLLA		N	.	.	12...6.....
		HELVOLA		N	.	.	1234567890....WEM
		LEIOSPERMA		N	.	.	123456.....E
		UMBELLATA		N	.	.	1234567
		BIFLORA		N	.	.	123...6.....
		SPICATA		N	.	.	123.56.....
		VIRGINIANA		N	.	.	12...6.....
		CAMPESTRE		I	.	.	123.56.....
VICIA	VICIA	DUBIUM		I	.	.	123456...90A...WPEM
		INCARNATUM		I	.	.	1234567...90A...WEM
		PRATENSE		I	.	.	123456...90...WE
		REPENS		I	.	.	1234567890AHC.NWPEM
		RESUPINATUM		I	.	.	1234567890A...NWPEM
		CAROLINIANA		I	.	.	123456.....
		CRACCA		I	.	.	123.56.....
		GRANDIFLORA		I	.	.	12345...90A...NWPEM
		HIRSUTA		I	.	.	123...6...90....WEM
		MINUTIFLORA		N	.	.	.23...6.....
WISTERIA	WISTERIA	SATIVA		N	.	.	123.567...0AH...WPEM
		FRUTESCENS		N	.	.	12...567...0AH...WPEM
		FARINOSA		N	.	.	12...6.....
		NIGRA		N	.	.	123...6.....E
		VAR		N	.	.	12...6.....
		FRUTESCENS		N	.	.	12...6.....
		FARINOSA		N	.	.	123...6.....E
		NIGRA		N	.	.	12...6.....
		VAR		N	.	.	12...6.....
		FRUTESCENS		N	.	.	12...6.....

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FAMILY	GENUS	SPECIES	INFRA SPECIES	C	H	CA	DISTRIBUTION
LINACEAE	ALLIUM	AMPELOPRASUM		I	.	.	12.....
		BIVALVE		N	.	.	123.56.....
	CHAMAELIRIUM	CANADENSE		N	.	.	123456.....EM
		LUTEUM		N	.	.	123.....E
		UMBILICATUM		N	.	.	123.....EM
		CANADENSE		N	.	.	12345.....E
	MELANTHIUM	VIRGINICUM	SSP MICHIGANENSE	N	.	.	123.56.....
		RACEMOSUM		N	.	.	123.56.....
		BIFLORUM		I	.	.	123.56.....
		BONA-NOX		N	.	.	123456.....PE
LOGANIACEAE	STENANTHIUM	LAURIFOLIA		N	.	.	123.56.....
		ROTUNDIFOLIA		N	.	.	12.....6.....
		WALTERI		N	.	.	123.56.....EM
		GRAMINEUM		N	.	.	12.....6.....
	TRILLIUM	FLEXIPES		N	.	.	123.6.....
		LUDOVICIANUM		N	.	.	123.....
	YUCCA	MACULATUM		N	.	.	2.....
		SESSILE		N	.	.	2.....
		PERFOLIATA		N	.	.	123.56.....
		FILAMENTOSA		N	.	.	12.....E
LORANTHACEAE	UVULARIA	GLORIOSA		N	.	.	12..5.....
		MEDIUM		N	.	.	2.....
		SEMPERVIRENS		N	.	.	1.....E
		POLYPREMUM		N	.	.	12.....6.....
	LYTHRUM	MARILANDICA		N	I	.	123.6.....H
		FLAVESCENS		N	.	.	123.6.....
	LAGERSTROEMIA	VISCOSISSIMA		N	.	.	123.56.....
		INDICA		I	.	I	2.....C
	MAGNOLIA	ALATUM	VAR LANCEOLATUM	N	.	.	12.....6.....
		TULIPIFERA		N	.	.	123.6.....E
MAGNOLIACEAE	ABUTILON	ACUMINATA		N	.	.	123.6.....E
		GRANDIFLORA		N	.	.	12.....6.....
		MACROPHYLLA		N	.	.	12.....6.....
		VIRGINIANA		N	.	.	12.....6.....
	HIBISCUS	THEOPHRASTI		I	.	.	12345678.O.....PEM
		MOSCHEUTOS	SSP LASIOCARPOS	N	.	.	123.567.O.....
	SIDA	SYRIACUS		I	.	.	123.6.....
		RHOMBIFOLIA		I	I	N	12..67.O.HC.
	RHEXIA	SPINOSA		N	.	.	123.567.....HC.E
		AZEDARACH		I	.	I	123.6.....
MELASTOMATACEAE	MELIA	LYONII		N	.	.	12..67.O.C.
		CALYCOCARPUM		N	.	.	123.56.....
		COCULUS		N	.	.	123.56.....
		MACLURA		N	.	.	123456789.....E
	MORACEAE	POMIFERA		N	.	.	123.56.8.....E
		RUBRA		N	.	.	12.....C
	MYRICACEAE	CERIFERA		N	.	N	123.6.....
		VIRGINICUS		N	.	.	123.56.....EM
	OLEACEAE	AMERICANA		N	.	.	123456.89.....PEM
		FRAXINUS		N	.	.	123.6.....
ONAGRACEAE	LIGUSTRUM	PENNSYLVANICA		I	.	.	123.6.....PEM
		SINENSE		N	.	.	123456.....PEM
		LUTETIANA	SSP CANADENSIS	N	.	.	123.....
		FILIPES		N	.	.	123.....
	CIRCAEA	LONGIFLORA		N	.	.	123.56.....
		GAURA		N	.	.	123.....
	ONAGRACEAE	LONGIFLORA		N	.	.	123.56.....
		GAURA		N	.	.	123.....
	ONAGRACEAE	LONGIFLORA		N	.	.	123.56.....
		GAURA		N	.	.	123.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
	LUDWIGIA	ALTERNIFOLIA		N	.	.	123.56.....E
		DECURRENS		N	.	.	123.56.....
		HIRTELLA		N	.	.	12...6.....
	OENOTHERA	BIENNIS		I	.	.	12345678.....WPEM
		FRUTICOSA	SSP GLAUCA	N	.	.	123.....EM
		LACINIATA		N	.	.	1234567..O...E
		LINIFOLIA		N	.	.	123.56.....
		PILOSELLA		N	.	.	123.....E
		SPECIOSA		N	.	.	123.567..O....
	BOTRYCHUM	DISSECTUM		N	.	.	123.56.....EM
		VIRGINIANUM		N	.	.	123456789..A...NWPEM
ORCHIDACEAE	PLATANThERA	CILIARIS		N	.	.	123..6.....E
		LACERA		N	.	.	123.56.....EM
		PERAMOENA		N	.	.	123.....
		CERNUA		N	.	.	123.56.....EM
	SPIRANTHES	VERNALIS		N	.	.	123.56.....
		TRIANTHOPHORA		N	.	.	123..6.....E
OROBANCHACEAE	TRIPHORA	VIRGINIANA		N	.	.	123..6.....EM
OSMUNDACEAE	EPIFAGUS	CINNAMOMEA		N	.	.	123..67.....C.EM
	OSMUNDA	REGALIS		N	.	.	23.5.....
OXALIDACEAE	OXALIS	CORNICULATA		N	.	.	123456789OAH.C.WPEM
		STRICTA		I	I	N	123456789.....WPEM
		VIOLACEA		N	.	.	123456789.....
		MINOR		N	.	.	2...6.....
PALMAE	SABAL	FLAVULA		N	.	.	123.56.....E
PAPAVACEAE	CORYDALIS	MICRANTHA		N	.	.	23456.....
		CANADENSIS		N	.	.	123456.....PEM
PASSIFLORACEAE	SANGUINARIA	EDULIS		N	I	N	123.56.....HC
PHYRMACEAE	PASSIFLORA	LEPTOSTACHYA		N	.	.	123456.....PEM
PHYTOLACCACEAE	PHYRMA	AMERICANA		N	.	.	123.567.90...E
PINACEAE	PHYTOLACCA	VIRGINIANA		N	.	.	123456.8.....
	JUNIPERUS	ECHINATA		N	.	.	123..6.....
	PINUS	ELLIOTTII		N	.	.	2.....
		GLABRA		N	.	.	2.....
		PALUSTRIS		N	.	.	12...6.....
		TAEDA		N	.	.	12...6.....
		VIRGINIANA		N	.	.	123.....
PLANTAGINACEAE	TAXODIUM	DISTICHUM		N	.	.	123..6.....
	PLANTAGO	ARISTATA		N	I	.	123.567.90.H..NWEM
		LANCEOLATA		I	I	I	123456789OAH.C.WPEMG
		VIRGINICA		N	I	.	1234567..O....
PLATANACEAE	PLATANUS	OCCIDENTALIS		N	.	.	123.56.....E
POLEMONIACEAE	PHLOX	AMDENA		N	.	.	12.....
		CAROLINA		N	.	.	123.....
		GLABERRIMA		N	.	.	123..6.....
		PILOSA		N	.	.	123.56.....E
POLEMONIUM	REPTANS	BOYKINII		N	.	.	123.56.....E
POLYGALACEAE	POLYGALA	CRUCIATA		N	.	.	2.....
		CURTISII		N	.	.	123..6.....
		INCARNATA		N	.	.	12.....
		MARIANA		N	.	.	123.56.....E
		NANA		N	.	.	12...6.....

FLORA LIST FOR NATCHEZ TRACE PARKWAY
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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION
POLYGONACEAE	BRUNNICHIA POLYGONUM	POLYGAMA		N	.	.		123..6.....
		SANGUINEA		N	.	.		1234567.....EM
		SENEGA		N	.	.		12345.....WPEM
		VERTICILLATA		N	.	.		123456..9.....PE
		CIRRHOSEA		N	.	.	H	123..6.....
		HYDROPIPEROIDES		N	.	.	F	123456..90A...WEM
		PENSYLVANICUM		N	.	.	F	1234567890....EM
		PUNCTATUM		N	.	N	F	1234567890...C.
		SAGITTATUM		N	.	.	F	123456..8.....PEM
		SCANDENS	VAR DUMETORUM	N	.	.	F	123.....
POLYPODIACEAE	RUMEX	VIRGINIANUM		N	.	.	P	123..56.....E
		ACETOSELLA		I	I	.	F	1234567890AH..NWPEMG
		ALTISSIMUS		N	.	.	F	1234567.....E
		CHRYSOCARPUS		N	.	.	F	..2...6.....
		CRISPUS		I	I	I	F	1234567890AHC.NWPEM
		HASTATULUS		N	.	.	F	123..56.....
		PULCHER		I	.	.	F	123..6...90....
		PEDATUM		N	.	.	F	123456789.....EM
		PLATYNEURON		N	.	.	F	123..567.....E
		RHIZOPHYLLUM		N	.	.	F	123..56.....E
PORTULACACEAE PRIMULACEAE	ATHYRIUM	FILIX-FEMINA		N	.	.	F	..2345...89....PEMG
		THELYPTEROIDES		N	.	.	F	123.....
		LANOSA		N	.	.	F	123..56...9....
		FRAGILIS		N	.	.	F	1234567890A...WPEMG
		ATROPURPUREA		N	.	.	F	1234567890A...WE
		POLYPODIOIDES		N	.	N	@	1234567..9.....C.
		KUNTHII		N	.	N	F	..2...6.....C.
		OBTUSA		N	.	.	F	123..56.....E
		VIRGINICA		N	.	.	F	123..56.....E
		ARVENSIS		I	I	.	F	1234567..90.H..WPEMG
PYROLACEAE	LYSIMACHIA	CILIATA		N	.	.	F	123456789..A...WPEM
		HYBRIDA		N	.	.	F	12345..7..9....WPE
		LANCEOLATA		N	.	.	F	123..6.....
		QUADRIFOLIA		N	.	.	F	123.....
		MONOTROPA		N	.	.	F	123..567..90A...WPEM
		UNIFLORA		N	.	.	F	123456..90A...WPEM
		PACHYPODA		N	.	.	F	123..56.....EM
		QUINQUEFOLIA		N	.	.	F	12345.....EM
		VIRGINIANA		N	.	.	F	123456.....WPEM
		CRISPA		N	.	.	F	123..6.....
RANUNCULACEAE	CLEMATIS	VIORNA		N	.	.	V	123.....
		VIRGINIANA		N	.	.	V	123456.....PEM
		TRICORNE		N	.	.	F	123..56.....
		NOBILIS		N	.	.	F	123.....PEM
		ABORTIVUS	VAR OBTUSA	N	.	.	F	123456..9.A...NWPEM
		FASCICULARIS		N	.	.	F	123..56.....PE
		HISPIDUS		N	.	.	F	123456.....E
		MURICATUS		I	I	.	F	..2...6...90.H..G
		PARVIFLORUS		I	I	.	F	123..6...O.H..
		RECURVATUS		N	.	.	F	123456..9....EM
THALICTRUM XANTHORHIZA		DASYCARPUM		N	.	.	F	123456789.....WPE
		THALICTROIDES		N	.	.	F	123..56.....E
		SIMPLICISSIMA		N	.	.	S	12...6.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
RHAMNACEAE	BERCHEMIA	SCANDENS		N	.	W	123..6.....
	CEANOTHUS	AMERICANUS		N	.	S	123..6.....E
	RHAMNUS	CAROLINIANA		N	.	S	123.56.....
	AGRIMONIA	PARVIFLORA		N	.	P	123456.....E
ROSACEAE		PUBESCENS		N	.	P	123456.....E
		STRIATA		N	.	P	123456789....WPEM
	AMELANCHIER	ARBOREA		N	.	S	123.56.....EM
	ARONIA	ARBUTIFOLIA		N	.	T	123..6.....EM
CRATAEGUS	ARUNCUS	DIOICUS	VAR	N	.	S	123..6.....EM
		MARSHALLII		N	.	S	123..6.....
		PRUNOSA		N	.	T	123.56.....EM
		PUNCTATA		N	.	T	123.56.....EM
DUCHESNEA	GEUM	VIRIDIS		N	.	T	123.56.....
		INDICA		I	.	P	123..6..90....W
		ALEPPICUM		N	.	P	12345.789.A...NWPEM
		CANADENSE		N	.	P	123456.....EM
MALUS	PORTERANTHUS	ANGUSTIFOLIA		N	.	P	123456.....
	POTENTILLA	STIPULATUS		N	.	T	123.56.....
		CANADENSIS		N	.	P	123.56.....
		NORVEGICA		N	.	P	123.56.....
PRUNUS		RECTA	SSP	N	.	P	123.....EM
		AMERICANA	MONSPELIENSIS	N	.	A	1234567890...WPEM
		ANGUSTIFOLIA		I	.	P	123456.890...WPEM
		MEXICANA		N	.	S	123456789....PE
ROSA		MUNSONIANA		N	.	S	123.567.....
		SEROTINA		N	.	T	23456.....
		BRACTEATA		N	.	T	123.56.....
		CAROLINA		I	.	W	123456.....EM
RUBUS		LAEVIGATA		I	.	S	12..6.....
		PALUSTRIS		I	.	S	12..6.....C.
		SETIGERA		N	.	S	123.5.....EM
		LOUISIANUS		N	.	S	123.56.....E
RUBIACEAE	CEPHALANTHUS	TRIVIALIS		N	.	S	12.....
	DIODIA	OCCIDENTALIS		N	.	S	123..6.....
		TERES		N	.	E	123.567..O...EM
		VIRGINIANA		N	.	A	123.567.....
GALIUM		APARINE		N	.	P	123..6.....
		PILOSUM		N	.	A	123.567.....E
		TINCTORIUM		N	.	P	123.....
		TRIFLORUM		N	.	P	1234567890A...WPEMG
HOUSTONIA		CAERULEA		N	.	P	123.....EM
		MINIMA		N	.	P	123.....
		PURPUREA	VAR - CALYCOSA	N	.	A	23.56.....
		PUSILLA		N	.	.	123.....
MITCHELLA	OLDENLANDIA	REPENS		N	.	A	123..6.....EM
	SPERMACOCE	FASCICULATA		N	.	P	123..6.....
	PONCIRUS	GLABRA		N	.	A	2.....
	PTELEA	TRIFOLIATA		I	.	P	123.56.....
SALICACEAE	ZANTHOXYLUM	TRIFOLIATA		N	.	S	12..6.....
		AMERICANUM		N	.	S	123.5678....E
	POPULUS	CLAVA-HERCULIS		N	.	S	123456.....E
	SALIX	DELTOIDES		N	.	S	12..6.....
		NIGRA		N	.	T	123..6.....E
				N	.	T	123.56.....EM

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
SAURURACEAE SAXIFRAGACEAE	SAURURUS DECUMARIA HEUCHERA HYDRANGEA ITEA PARNASSIA SAXIFRAGA TIARELLA AGALINIS	OCCIDENTALIS		N	.	.	123..6.....
		CERNUUS		N	.	.	123.56.....E
		BARBARA		N	.	.	12.....
		VILLOSA		N	.	.	12.....
		ARBORESCENS		N	.	.	123.56.....
		QUERCIFOLIA		N	.	.	12.....
		VIRGINICA		N	.	.	123..6.....
		GRANDIFOLIA		N	.	.	123..6.....
		VIRGINIENSIS		N	.	.	123.....PEM
		CORDIFOLIA		N	.	.	123.....EM
SCROPHULARIACEAE	AUREOLARIA BUCHNERA CASTILLEJA CHELONE GRATIOLA LINARIA LINDERNIA MECARDONIA MIMULUS PEDICULARIS PENSTEMON	FASCICULATA		N	.	N	123.56.....C.
		GATTINGERI		N	.	.	123.56.....E
		HETEROPHYLLA		N	.	.	.23.56.....
		TENUIFOLIA		N	.	.	12345678.....PE
		FLAVA		N	.	.	123..6.....E
		PECTINATA		N	.	.	123..6.....
		AMERICANA		N	.	.	123.56.....E
		COCCINEA		N	.	.	123.56.....PE
		GLABRA		N	.	.	123.....EM
		OBLIQUA		N	.	.	12.....
	VERBASCUM VERONICA VERONICASTRUM AILANTHUS DATURA NICANDRA PHYSALIS SOLANUM	VIRGINIANA		N	.	.	123.56.....E
		TEXANA		N	I	.	123456789..H..WP
		VULGARIS		I	.	.	1234567890A...NWPEMG
		DUBIA		N	.	N	123456..90..C.WEM
		ACUMINATA		N	.	.	123.56.....
		ALATUS		N	.	.	123.56.....E
		CANADENSIS		N	.	.	12345678.....PE
		ALLUVIUM		N	.	.	123.....
		CALYCOSUS		N	.	.	123.....
		LAEVIGATUS		N	.	.	123.....
	STAPHYLEACEAE STYRACACEAE	TENUIFLORUS		N	.	.	12.....
		BLATTARIA		N	.	.	12.....
		THAPSUS		I	I	.	123.567890.H..WEM
		ARVENSIS		I	I	.	1234567890.H..WPEM
		PEREGRINA		I	I	.	1234567890AH..WEMG
		VIRGINICUM		N	.	.	1234567890...WEM
		ALTISSIMA		N	.	.	123456.....PEM
		STRAMONIUM		I	I	.	123.567890...E
		PHYSALODES		I	I	.	1234567890.HC.WPEM
		ANGULATA		N	.	N	123.56...O.H..EM
	SYMPLOCACEAE TILIACEAE TYPHACEAE ULMACEAE	PUBESCENS		N	.	N	123.567..O..C.
		CAROLINENSE		N	.	N	123..67..O..C.WPEM
		NIGRUM		I	N	.	1234567890...E
		TRIFOLIA		N	.	.	7890A...WPEM
		DIPTERA		N	.	.	123.56.....E
		AMERICANA		N	.	.	.2...6.....
		GRANDIFOLIA		N	.	.	123..6.....
		TINCTORIA		N	.	.	12.....
		AMERICANA		N	.	.	12...6.....
		LATIFOLIA		N	.	.	123456.....PEM
	ULMUS	LAEVIGATA		N	.	.	1234567890AH..NWPEM
		OCCIDENTALIS		N	.	.	123.56.....
		ALATA		N	.	.	123456.....

VAR PUMILA

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA	DISTRIBUTION
UMBELLIFERAE	CHAEROPHYLLUM	AMERICANA		N	.	.	123456.8.....PEM
		RUBRA		N	.	.	123456.....E
		TAINTURIERI		N	.	.	123.567.....
		MACULATA		N	.	.	123456789.....NWPEM
		CICUTA		I	.	.	1234567890.....WPEM
	ERYNGIUM	CAROTA		N	I	.	.23.567.90.H..W
		PUSILLUS		N	.	.	123.56.....
		PROSTRATUM		N	.	.	123.56.....
		YUCCIFOLIUM		N	.	.	123456.....E
		CANADENSIS		N	.	.	12345.789.....WPEM
URTICACEAE	SANICULA	MARILANDICA		N	.	.	123456.....PEM
		AUREA		N	.	.	123456.....C.E
		CYLINDRICA		N	.	.	123456.....PEM
		LAPORTEA		N	.	.	123456.....EM
		PILEA		N	.	.	123.56.....
	URTICA	CHAMAEDRYOIDES		N	.	.	123.56.....
		RADIATA		N	.	.	123.56.....
		AMERICANA		N	.	.	123.6.....
		CANADENSIS		N	.	.	123.56.....
		NODIFLORA		N	.	.	123.67.O..C.
VALERIANACEAE VERBENACEAE	VERBENA	BONARIENSIS		I	.	.	12..6..O..C.
		BRASILIENSIS		I	.	.	12.56.90.....
		HALEI		N	.	.	.2..67.....
		RIGIDA		I	.	.	.2..6.....
		SIMPLEX		N	.	.	123.56.....E
	VIOLA	URTICIFOLIA		N	.	.	123456.....PEM
		XUTHA		N	.	.	.2..67.....
		BICOLOR		N	.	.	123.5678.....
		CUCULLATA		N	.	.	123.....NWPEM
		HIRSUTULA		N	.	.	123.....
VITACEAE	PAPILIONACEA	PALMATA		N	.	.	123.....E
		PEDATA		N	.	.	123.56.....NWPEM
		PRIMULIFOLIA		N	.	.	123.56.....E
		PUBESCENS		N	.	.	123.6.....
		ERIOCARPA		N	.	.	123456.....E
	AMPELOPSIS	VAR		N	.	.	123.56.....
		ARBOREA		N	.	.	123.56.....
		CORDATA		N	.	.	123.56.....
		QUINQUEFOLIA		N	.	.	12345678.....PEM
		LABRUSCA		I	.	.	123.....E
VITACEAE	VITIS	ROTUNDIFOLIA		N	.	.	123.6.....
		VULPINA		N	.	.	1234567.....
		VAR		N	.	.	123.56.....
		ERIOCARPA		N	.	.	123.56.....
		ARBOREA		N	.	.	123.56.....
	PARTHENOCISSUS	CORDATA		N	.	.	123.56.....
		QUINQUEFOLIA		N	.	.	12345678.....PEM
		LABRUSCA		I	.	.	123.....E
		ROTUNDIFOLIA		N	.	.	123.6.....
		VULPINA		N	.	.	1234567.....

----- TOTAL VASCULAR FLORA= 835, TOTAL NUMBER OF FAMILIES= 112, TOTAL NUMBER OF GENERA= 443 -----

• THIS INFORMATION IS FROM NPFLORA. A COMPUTERIZED DATA BASE OF THE VASCULAR FLORA FROM SELECTED UNITS OF THE NATIONAL PARK SYSTEM. QUESTIONS, CORRECTIONS, AND/OR ADDITIONS TO THESE DATA SHOULD BE DIRECTED TO GARY S. WAGGONER, ECOLOGICAL DATA BASES GIS UNIT, DSC-SP, P.O. BOX 25287, DENVER, CO 80225, PHONE: FTS 776-8798 \ COMM. 303-236-8798.

Park Sources:

Davis, Wayne
Plant Succession on the Natchez Trace Parkway, Natchez Trace Parkway Library
ACC No. 2490, Tables I, II, III, April 1975 (unpublished).

McDougall, W.B.
Plants of the Natchez Trace Parkway, Mimeographed Book from Natchez Trace
Parkway, 1950.

Conspicuous Trees, Shrubs and Vines on the Natchez Trace Parkway,
February 1977 (unpublished).

NATCHEZ TRACE PARKWAY SYNONYMY LIST

1/22/86

SOURCE NAME	NPFLORA NAME
ACER NIGRUM	ACER SACCHARUM SSP NIGRUM
ACERATES VIRIDIFLORA	ASCLPEIAS VIRIDIFLORA
ACTAEA ALBA	ACTAEA PACHYPODA
ACTINOMERIS ALTERNIFOLIA	VERBESINA ALTERNIFOLIA
AILANTHUS GLANDULOSA	AILANTHUS ALTISSIMA
AIRA CAPILLARIS	AIRA ELEGANS
AMBROSIA GLANDULOSA	AMBROSIA ARTEMISSIFOLIA
AMBROSIA LEPTOSTACHYA	SYNONYMY UNCLEAR
ANDROPOGON FURCATUS	ANDROPOGON GERARDII
ANDROPOGON SCOPARIUS	SCHIZACHYRIUM SCOPARIUM
ANEMONELLA THALICTROIDES	THALICTRUM THALICTROIDES
ARABIS VIRGINICA	SIBARA VIRGINICA
ARISAEMA PUSILLUM	ARISAEMA TRIPHYLLUM SSP PUSILLUM
ARUNCUS PUBESCENS	ARUNCUS DIOICUS VAR PUBESCENS
ASCLEPIODORA VIRIDIS	ASCLEPIAS VIRIDIS
ASTER EXILIS	ASTER SUBULATUS VAR LIGULATUS
ASTER TENUICAILIS	ASTER PATENS VAR GRACILIS
BAPTISIA LEUCANTHA	BAPTISIA LACTEA
BIDENS BIPINNATA	COSMOS BIPINNATUS
BREWERIA HUMISTRATA	STYLISMA HUMISTRATA
BRINTONIA DISCOIDEA	SOLIDAGO DISCOIDEA
CAMPTOSORUS RHIZOPHYLLUS	ASPLENIUM RHIZOPHYLLUM
CARYA CAROLINAE-SEPTENTRIONALIS	CARYA OVATA VAR AUSTRALIS
CARYA LEIODERMIS	CARYA GLABRA VAR MEGACARPA
CASSIA TORA	CASSIA OBTUSIFOLIA
CELTIS PUMILA	CELTIS OCCIDENTALIS VAR PUMILA
CHAMAECHRISTA FASCICULATA	CASSIA FASCICULATA
CHAMAECHRISTA PROCUMBENS	CASSIA NICTITANS
CHRYSANTHEMUM LEUCANTHEMUM	LEUCANTHEMUM VULGARE
CHRYSOPSIS GRAMINIFOLIA	HETEROTHECA GRAMINIFOLIA
CHRYSOPSIS MARIANA	HETEROTHECA MARIANA
CINNA ARUNDINARIA	CINNA ARUNDINACEA
CIRCAEA LATIFOLIA	CIRCAEA LUTETIANA SSP CANADENSIS
CIRSIIUM FLACCIDUM	CIRSIIUM CAROLINIANUM
CLADRASTIS LUTEA	CLADRASTIS KENTUKIA
CLEMATIS BEADLEI	CLEMATIS VIORNA
COLLINSIA CANADENSIS	SYNONYMY UNCLEAR
CONVOLVULUS REPENS	CALYSTEGIA SEPIUM SSP AMERICANA
CONVOLVULUS SEPIUM	CALYSTEGIA SEPIUM
CRAETAGUS COLLINA	CRATAEGUS PUNCTATA
CRAETAGUS GATTINGERI	CRATAEGUS PRUNOSA
CUPHAEA PETIOLATA	CUPHAEA VISCOSISSIMA
DENTARIA HETEROPHYLLA	CARDAMINE ANGUSTATA
DESMODIUM BRACTEOSUM	DESMODIUM CUSPIDATUM
DRYOPTERIS NORMALIS	THELYPTERIS KUNTHII

ECHINODORUS RADICANS
 EQUISETUM PRAEALTUM
 ERIGERON CANADENSIS
 ERIGERON PUSILLUS
 ERYTHRONIUM AMERICANUM
 EUPATORIUM ALTISSIMUM
 EUPATORIUM AROMATICUM
 EUPATORIUM COELESTINUM
 EUPATORIUM FISTULOSUM
 EUPATORIUM RUGOSUM
 FESTUCA OCTOFLORA
 FRASERA CAROLINENSIS
 FRAXINUS BILTMOREANA
 GAURA FILIFORMIS
 GERANIUM CAROLINIANUM
 GERARDIA FASCICULATA
 GERARDIA GATTINGERI
 GERARDIA HETEROPHYLLA
 GERARDIA TENUIFOLIA
 GEUM STRICTUM
 GILLENIA STIPULATA
 GNAPHALIUM PURPUREUM
 GONOLOBUS GONOCARPUS
 HABENARIA CILIARIS
 HABENARIA LACERA
 HABENARIA PERAMOENA
 HELENIUM NUDIFLORUM
 HELENIUM PARVIFLORUM
 HELENIUM TENUIFOLIUM
 HELIANTHUS TRACHELIFOLIUS
 HEPATICA AMERICANA
 HIBISCUS LASIOCARPUS
 HOUSTONIA LANCEOLATA
 HYDROLEA AFFINIS
 ILYSANTHUS DUBIA
 IMPATIENS BIFLORA
 IPOMOEA BARBIGERA
 IPOMOEA HEPTAPHYLLA
 IPONICA HEDERACEA
 IVA CILIATA
 JUNCUS ARISTULATUS
 JUSSIACA DECURRENS
 JUSTICIA LANCEOLATA
 LACTUCA SCARIOLA
 LACTUCA VILLOSA
 LILIUM SUPERBUM
 LIPPIA NODOFLORA
 LOBELIA LEPTOSTACHYS
 LOLIUM MULTIFLORUM
 LOLIUM TEMENTULUM
 LYTHRUM LANCEOLATUM

ECHINODORUS CORDIFOLIUS
 EQUISETUM HYEMALE VAR AFFINE
 CONYZA CANADENSIS
 CONYZA CANADENSIS VAR PUSILLA
 ERYTHRONIUM UMBILICATUM
 AGERATINA ALTISSIMA
 AGERATINA AROMATICA
 CONOCLINIUM COELESTINUM
 EUPATORIADELPHUS FISTULOSUS
 AGERATINA ALTISSIMA
 VULPIA OCTOFLORA
 SWERTIA CAROLINENSIS
 FRAXINUS AMERICANA
 GAURA LONGIFLORA
 GERANIUM SPHAEROSPERMUM
 AGALINIS FASCICULATA
 AGALINIS GATTINGERI
 AGALINIS HETEROPHYLLA
 AGALINIS TENUIFOLIA
 GEUM ALEPPICUM
 PORTERANTHUS STIPULATUS
 GAMOCHEA PURPUREA
 MATELEA GONOCARPA
 PLATANThERA CILIARIS
 PLATANThERA LACERA
 PLATANThERA PERAMOENA
 HELENIUM FLEXUOSUM
 HELENIUM AUTUMNALE VAR PARVIFLORUM
 HELENIUM AMARUM
 HELIANTHUS DECAPETALUS
 HEPATICA NOBILIS VAR OBTUSA
 HIBISCUS MOSCHEUTOS SSP LASIOCARPOS
 HOUSTONIA PURPUREA VAR CALYCOSA
 HYDROLEA UNIFLORA
 LINDERNIA DUBIA
 IMPATIENS CAPENSIS
 IPOMOEA HEDERACEA
 IPOMOEA WRIGHTII
 SYNONYMY UNCLEAR
 IVA ANNUA
 JUNCUS MARGINATUS
 LUDWIGIA DECURRENS
 JUSTICIA OVATA VAR LANCEOLATA
 LACTUCA SERRIOLA
 LACTUCA FLORIDANA VAR VILLOSA
 LILIUM CANADENSE SSP MICHIGANENSE
 PHILA NODIFLORA
 LOBELIA SPICATA VAR LEPTOSTACHYS
 LOLIUM PERENNE VAR MULTIFLORUM
 LOLIUM TEMULENTUM
 LYTHRUM ALATUM VAR LANCEOLATUM

MEDICAGO HISPIDA
 MELANTHERA HASTATA
 MELANTHIUM DISPERSUM
 MESADENIA ATRIPLICIFOLIA
 MESADENIA ELLIOTTII
 MONARDA BRADBURIANA
 MONOTROPA HYPOPITYS
 MORACEAE RUBRA
 MYOSOTIS VIRGINICA
 NEMOPHILA MICROCALYX
 NOTHOSCORDUM BIVALVE
 NYSSA BIFLORA
 OENOTHERA TETRAGONA
 OPUNTIA COMPRESSA
 OPUNTIA OPUNTIA
 PANICUM COMMUTATUM
 PANICUM POLYANTHES
 PANICUM SCOPARIUM
 PANICUM STIPITATUM
 PASSIFLORA INCARNATA
 PETALOSTEMON CANDIDUS
 PETALOSTEMON PURPUREUS
 PLUCHAEA PETIOLATA
 POGONIA TRIANTHOPHORA
 POLYGALA VIRIDESCENS
 POLYGONUM DUMETORUM
 POLYMNIA UVEDALIA
 POTENTILLA MONSPELIENSIS
 PSORALEA PEDUNCULATA
 RHUS RADICANS
 RHYNCHOSIA ERECTA
 RORIPPA NASTURTIUM-AQUATICUM
 RUDBECKIA AMPLEXICAULIS
 RUDBECKIA UMBROSA
 RUMEX BERLANDIERI
 SAGITTARIA LONGIROSTRIS
 SALIX TRISTIS
 SCIRPUS CARINATUS
 SCIRPUS ERIOPHORUM
 SCUTELLARIA VERSICOLOR
 SEBASTIANA LAGUSTRINA
 SERICOCARPUS LINIFOLIUS
 SERINEA OPPOSITIFOLIA
 SETARIA LUTESCENS
 SILPHIUM GATESII
 SILPHIUM TRIFOLIATUM
 SISYRINCHIUM GRAMINOIDES
 SOLIDAGO LEPTOCEPHALA
 SPECULARIA PERFOLIATA
 STEIRONEMA CILIATUM
 STEIRONEMA HYBRIDUM
 MEDICAGO POLYMORPHA
 MELANTHERA NIVEA
 MELANTHIUM VIRGINICUM
 ARNOGLOSSUM ATRIPLICIFOLIUM
 ARNOGLOSSUM OVATUM
 MONARDA RUSSELLIANA
 HYPOPITYS MONOTROPA
 MORUS RUBRA
 MYOSOTIS VERNALIS
 NEMOPHILA APHYLLA
 ALLIUM BIVALVE
 NYSSA SYLVATICA VAR BIFLORA
 OENOTHERA FRUTICOSA SSP GLAUCA
 OPUNTIA HUMIFUSA
 OPUNTIA HUMIFUSA
 DICHANTHELIUM COMMUTATUM
 DICHANTHELIUM SPHAEROCARPON VAR ISOPHYLLUM
 DICHANTHELIUM SCOPARIUM
 PANICUM RIGIDULUM
 PASSIFLORA EDULIS
 DALEA CANDIDA
 DALEA PURPUREA
 PLUCHAEA CAMPHORATA
 TRIANTHOPHORA
 POLYGALA SANGUINEA
 POLYGONUM SCANDENS VAR DUMETORUM
 SMALLANTHUS UVEDALIA
 POTENTILLA NORVEGICA SSP MONSPELIENSIS
 PSORALEA PSORALIOIDES
 TOXICODENDRON RADICANS
 RHYNCHOSIA TOMENTOSA
 NASTURTIUM OFFICINALE
 DRACOPIS AMPLEXICAULIS
 RUDBECKIA FULGIDA VAR UMBROSA
 RUMEX CHRYSOCARPUS
 SAGITTARIA ENGELMANNIANA SSP LONGIROSTRA
 SALIX OCCIDENTALIS
 SCIRPUS KOILOLEPIS
 SCIRPUS CYPERINUS
 SCUTELLARIA OVATA VAR VERSICOLOR
 SEBASTIANA FRUTICOSA
 ASTER SOLIDAGINEUS
 KRIGIA CESPITOSA
 SETARIA GLAUCA
 SILPHIUM ASPERRIMUM
 SILPHIUM ASTERISCUS SSP TRIFOLIATUM
 SISYRINCHIUM ANGUSTIFOLIUM
 EUTHAMIA LEPTOCEPHALA
 TRIODANIS PERFOLIATA
 LYSIMACHIA CILIATA
 LYSIMACHIA HYBRIDA

STEIRONEMA LANCEOLATUM
 STELLARIA UNIFLORA
 STROPHOSTYLES PAUCIFLORA
 TOVARA VIRGINIANA
 TRADESCANTIA CANALICULATA
 TRIFOLIUM PROCUMBENS
 TRIODIA FLAVA
 TRIODIA STRICTA
 ULMUS FULVA
 UNIOLA LATIFOLIA
 UNIOLA SESSILIFLORA
 VERBENA ANGUSTIFOLIA
 VERBESINA BELIANTHOIDES
 VICIA ANGUSTIFOLIA
 VICIA MICRANTHA
 VINCETOXICUM GONOCARPUS
 VIOLA ERIOCARPA
 VIOLA KITABELIANA
 XANTHIUM AMERICANUM
 XANTHOXYLUM CLAVA-HERCULIS

 LYSIMACHIA LANCEOLATA
 MINUARTIA UNIFLORA
 STROPHOSTYLES LEIOSPERMA
 POLYGONUM VIRGINIANUM
 TRADESCANTIA OHIENSIS
 TRIFOLIUM CAMPESTRE
 TRIDENS FLAVUS
 TRIDENS STRICTUS
 ULMUS RUBRA
 CHASMANTHIUM LATIFOLIUM
 CHASMANTHIUM SESSILIFLORUM
 VERBENA SIMPLEX
 VERBESINA HELIANTHOIDES
 VICIA SATIVA VAR NIGRA
 VICIA MINUTIFLORA
 MATELEA GONOCARPA
 VIOLA PUBESCENS VAR ERIOCARPA
 VIOLA BICOLOR
 XANTHIUM STRUMARIUM VAR GLABRATUM
 XANTHOXYLUM CLAVA-HERCULIS