



United States Department of the Interior

NATIONAL PARK SERVICE

GEOGRAPHIC INFORMATION SYSTEMS

P.O. Box 25287
Denver, Colorado 80225

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*list placed in
Natchez Trace Parkway
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

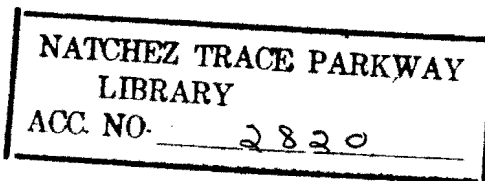
Subject: Review of Vascular Flora Lists from the NPFLORA Data Base

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

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).

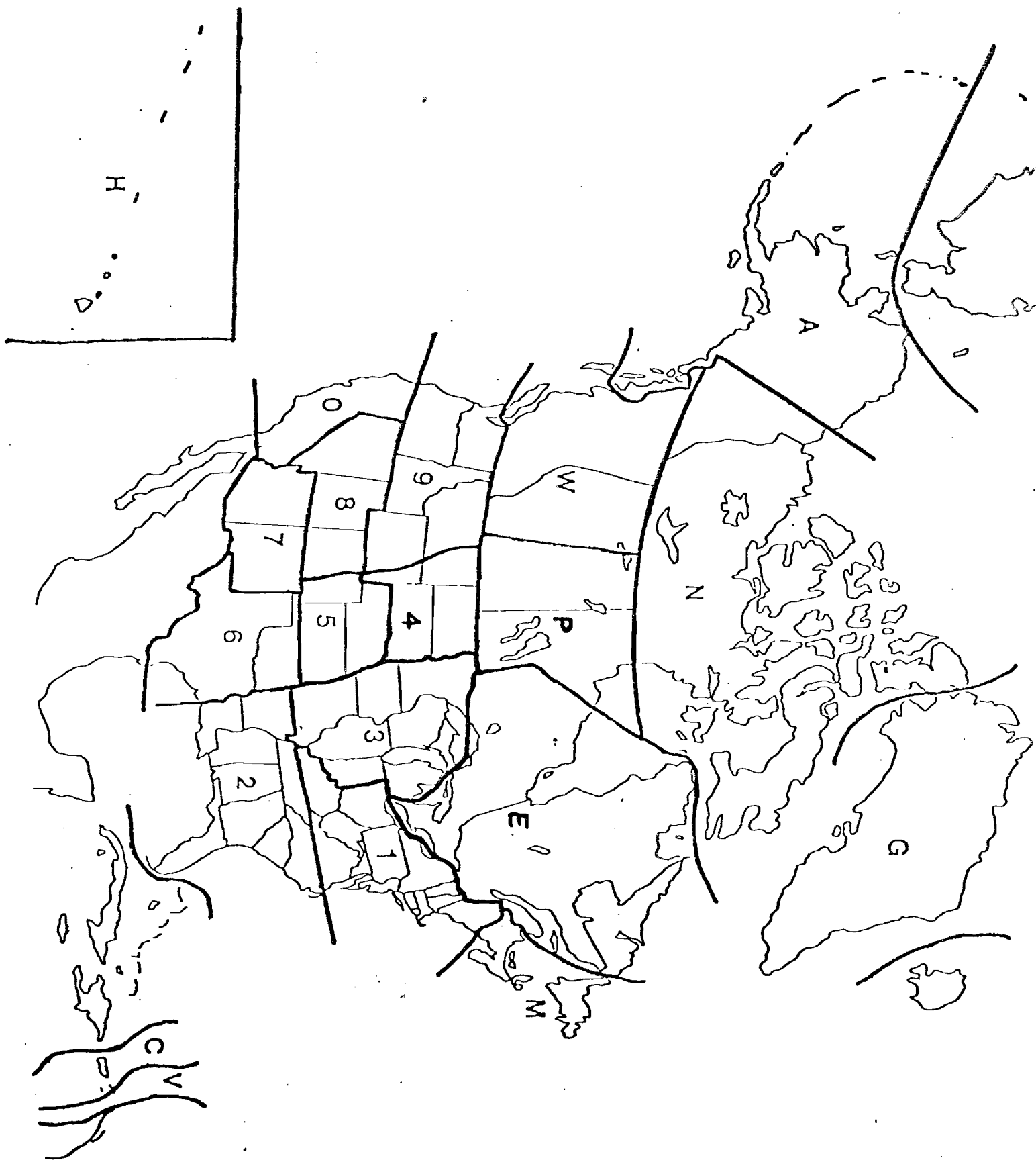


Figure 2: Regional Distribution Map (Taken from NLSPN)

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 NPFLOA 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

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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 NPFLOA. The Class I units are:

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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 I NPS UNITS

(Data in NPFLOA 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.

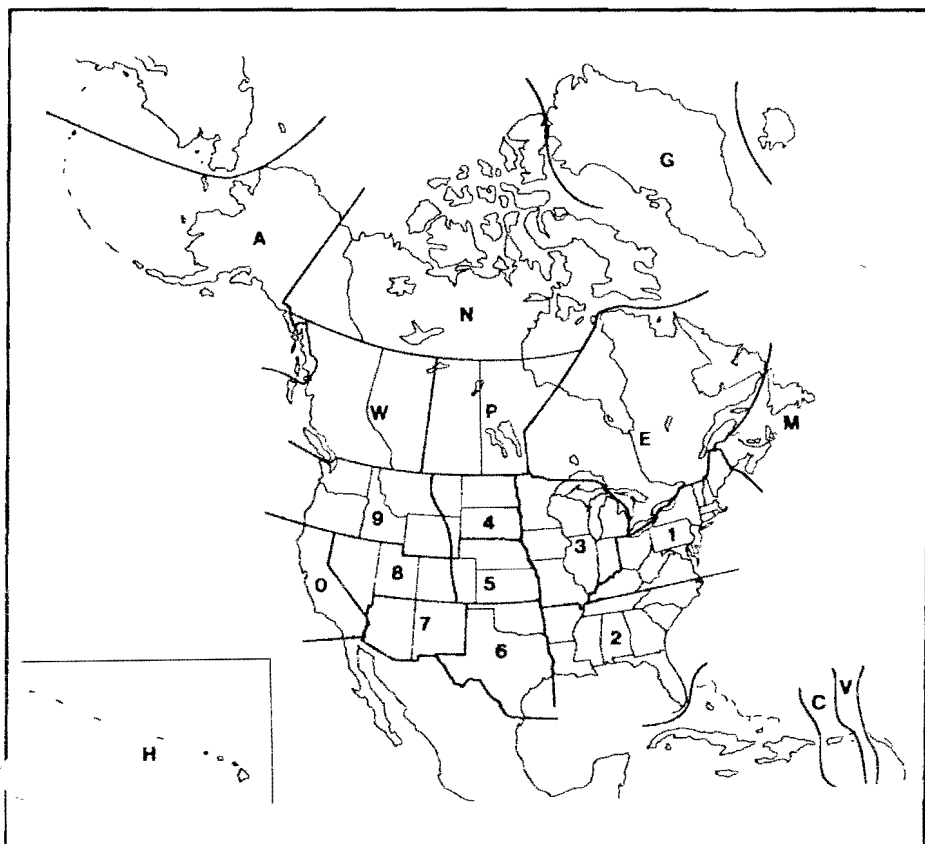


Figure 2: Regional Distribution Map (Taken from NLSPN)

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* database.

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 database 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

1

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

2

FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION
BORAGINACEAE	CAMPSIS	RADICANS		N	.	.	W V	123456.8.....E
	CATALPA	SPECIOSA		N	.	.	T	123456.8.....
	CYNOGLOSSUM	VIRGINIANUM	*	N	.	.	P F	123.56.....E
	ECHIU	VULGARE		I	.	.	B A P F	123456789....WP
	HACKELIA	VIRGINIANA		N	.	.	B P F	123456.....E
	HELIOTROPIUM	INDICUM		I	.	I	A F	123.56.....C.
	LITHOSPERMUM	CANESCENS		N	.	.	P F	123456.....PE
		TUBEROSUM		N	.	.	P F	12...6.....
BROMELIACEAE	MERTENSIA	VIRGINICA		N	.	.	P F	123.5.....E
	MYOSOTIS	VERNA		I	.	.	A F	123456..90....WE
	TILLANDSIA	USNEOIDES		N	.	N	P @ F	12...6.....C.
BUXACEAE	PACHYSANDRA	PROCUMBENS		N	.	.	P F	12.....
CACTACEAE	OPUNTIA	HUMIFUSA		N	.	.	\$ S	123.56789....E
CALLITRICHACEAE	CALLITRICHE	HETEROPHYLLA		I	.	.	P Z / F	1234567890....NWEMG
CAMPANULACEAE	CAMPANULA	AMERICANA		N	.	.	A F	123456.....E
	LOBELIA	CARDINALIS		N	.	.	P F	123.56.8.0....EM
		INFLATA		N	.	.	A F	123.56.....WEM
		PUBERULA		N	.	.	P F	123..6.....
		SIPHILITICA		N	.	.	P F	123456.8.....E
		SPICATA		N	.	.	P F	123456.....WP
			VAR LEPTOSTACHYA	N	.	.	P F	123.56.....
				N	.	.	A F	1234567890....WE
CAPRIFOLIACEAE	TRIODANIS	PERFOLIATA		I	.	.	S W V	123.5678.0....
	LONICERA	JAPONICA		N	.	.	S W V	123.56.....E
		SEMPERVIRENS		N	.	.	S	123456.89....EM
CARYOPHYLLACEAE	SAMBUCUS	CANADENSIS		N	.	.	S	123.56.....
	SYMPHORICARPOS	ORBICULATUS		N	.	.	S	12...6.....
	VIBURNUM	DENTATUM		N	.	.	S T	123..6.....
		NUDUM		N	.	.	S T	123.56.....
		RUFIDULUM		N	.	.	T S	123.56.....
	AGROSTEMMA	GITHAGO		I	.	.	A F	1234567.90A....WP
	CERASTIUM	VISCOSUM		I	.	.	A F	123.56..90....W
	DIANTHUS	ARMERIA		I	I	.	B A F	123456..90.H...WEM
	MINUARTIA	UNIFLORA		N	.	.	A F	.2.....
	SAGINA	PROCUMBENS		I	.	.	P F	123.....90A....WEMG
	SAPONARIA	OFFICINALIS		I	.	.	P F	1234567890....WP
	SILENE	STELLATA		N	.	.	P F	123456.....
		VIRGINICA		.	.	.	P F	123..6.....E
	STELLARIA	MEDIA		I	I	.	A P F	1234567890AH...NWPMG
		PUBERA		N	.	.	P F	123.....
CELASTRACEAE	EUONYMUS	AMERICANUS		N	.	.	S	123.56.....
CHENOPODIACEAE		ATROPURPUREUS		N	.	.	S T	123456.....E
	CHENOPODIUM	AMBROSIOIDES		I	I	N	A P F	1234567890.HC.EM
COMMELINACEAE		BERLANDIERI		N	.	.	A F	6.....
	COMMELINA	DIFFUSA		I	I	N	A F	123.56.....HC.
		VIRGINICA		I	.	N	P F	123.56.....C.
	TRADESCANTIA	HIRSUTIFLORA		N	.	.	P F	.2..56.....
		OHIENSIS		N	.	.	P F	123.56.....E
	ACHILLEA	MILLEFOLIUM		N	I	.	P F	1234567890AH...NWPMG
	AGERATINA	ALTISSIMA		N	.	.	.	123456.....EM
		AROMATICA		N	.	.	.	12.....
COMPOSITAE	AMBROSIA	APTERA		N	.	.	A F	.23.567.....
		ARTEMISIIFOLIA		N	I	.	A F	1234567890.H...WP
		TRIFIDA		N	.	.	A F	123456.890....WP

FLORA LIST FOR NATCHEZ TRACE PARKWAY
01/08/1986

3

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

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION		
	EUPATORIUM	ALBUM		N	.	.	P	F	12.....	
		CAPILLIFOLIUM		N	.	.	P	F	123..6.....	
		COMPOSITIFOLIUM		N	.	.	P	F	.2...6.....	
		CUNEIFOLIUM		N	.	.	P	F	12.....	
		HYSSOPIFOLIUM		N	.	.	P	F	12...6.....	
		PERFOLIATUM		N	.	.	P	F	123456.....WPEM	
		ROTUNDIFOLIUM		N	.	.	P	F	12...6.....	
		SEROTINUM		N	.	.	P	F	123.56.....	
		LEPTOCEPHALA		N	.	.	P	F	123..6.....	
	EUTHAMIA	RETUSA		I	.	.	A	F	.2...6.....	
	GAMOCHAETA	PURPUREA		N	N	.	.	.	123.567.90.H..WE	
	GNAPHALIUM	OBTUSIFOLIUM		N	.	.	A	B	F	123.56.....WEM
	HELENIUM	AMARUM		N	.	.	A	F	123.56...O....	
		AUTUMNALE	VAR	N	.	.	P	F	..3.....	
	HELIANTHUS	FLEXUOSUM	PARVIFLORUM		N	.	.	P	F	123.56.....E
		ANGUSTIFOLIUS		N	.	.	P	F	123..6.....	
		ANNUUS		N	.	.	A	F	1234567890A...WPEM	
		ATRORUBENS		N	.	.	P	F	12.....	
		DECAPETALUS		N	.	.	P	F	123.....EM	
		DIVARICATUS		N	.	.	P	F	123..6.....E	
		GROSSESERRATUS		N	.	.	P	F	123456.....E	
		HIRSUTUS		N	.	.	P	F	123.56.....E	
		MICROCEPHALUS		N	.	.	P	F	123.....	
		MOLLIS		N	.	.	P	F	123.56.....	
		STRUMOSUS		N	.	.	P	F	123.56.....EM	
		HELIOPSIS	HELIANTHOIDES		N	.	.	P	F	123.5..8.....E
		HETEROTHECA	GRAMINIFOLIA		N	.	.	P	F	12...6.....
			MARIANA		N	.	.	P	F	12...6.....
		HIERACIUM	SUBAXILLARIS		N	.	.	A	F	12..5678.O....
	GRONOVII			N	.	.	P	F	123.56.....E	
	IVA		ANNUA		I	.	.	A	F	123456.....
	KRIGIA		BIFLORA		N	.	.	P	F	123.5678.....PE
		CESPITOSA		.	.	.	.	.	123.56.8.....	
	LACTUCA	DANDELION		N	.	.	P	F	123.56.....	
		VIRGINICA		N	.	.	A	F	123.56.....	
		CANADENSIS		N	.	.	B	A	F	1234567890...WPEM
		FLORIDANA		N	.	N	B	A	F	123456.....C.PE
			VAR	VILLOSA	.	.	.	.	.	123.5.....
	LEUCANTHEMUM	SERRIOLA		I	.	.	A	B	F	1234567890.H..WPEM
		VULGARE		I	.	.	P	F	1234567890AH..NWPEMG	
LIATRIS			.	.	.	.	.	123.....		
PYCNOSTACHYA			N	.	.	P	F	123456.....		
MARSHALLIA	SCABRA		N	.	.	P	F	123..6.....		
	SQUARROSA		N	.	.	P	F	123.5.....		
	TRINERVIA		N	.	.	P	F	12.....		
	MELANTHERA	NIVEA		N	.	N	P	F	.2.....C.	
MIKANIA	SCANDENS		N	.	.	P	V	123..6.....		
PARTHENIUM	INTEGRIFOLIUM		N	.	.	P	F	123.56.....		
PLUCHEA	CAMPHORATA		I	.	.	A	P	F	123.567.....	
PRENANTHES	ALTISSIMA		N	.	.	P	F	123..6.....EM		
	ASPERA		N	.	.	P	F	123456.....		
PYRRHOPAPPUS	CAROLINIANUS		N	.	.	A	B	F	123.56.....	
RATIBIDA	PINNATA		N	.	.	P	F	123456.....E		

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FAMILY	GENUS	SPECIES	INFRA SPECIES	C	H	CA		DISTRIBUTION
CONVOLVULACEAE	RUDBECKIA	FULGIDA	VAR UMBROSA	.	.	.	.	123.....
		HIRTA		N	.	.	P B F	123456789.....WP
		LACINIATA		N	.	.	P F	123456789.....PEM
		TRILOBA		N	.	.	P F	123.56.....E
	SENECIO	GLABELLUS		N	.	.	A F	123.56.....
		ASPERRIMUM		N	.	.	P F	.23..6.....
		ASTERISCUS	SSP TRIFOLIATUM	N	.	.	P F	123.....
		INTEGRIFOLIUM		N	.	.	P F	.23.56.....
	SILPHIUM	PERFOLIATUM		N	.	.	P F	123.56.....E
		TEREBINTHINACEUM		N	.	.	P F	123.....E
		UVEDALIA		.	.	.	.	123.56.....
		ALTISSIMA		N	.	.	P F	1234567890....E
	SMALLANTHUS	CAESIA		N	.	.	P F	123..6.....EM
		CANADENSIS		N	.	.	P F	1234..789.....NWPEM
		DISCOIDEA		N	.	.	.	.2.....
		ERECTA		N	.	.	P F	123.....
	SOLIDAGO	GIGANTEA		N	.	.	P F	123456789.....WEM
		HISPIDA		N	.	.	P F	123..6.....PEM
		NEMORALIS		N	.	.	P F	123456789.....WP
		ODORA		N	.	.	P F	123..6.....
		PATULA		N	.	.	P F	123.....E
		RIGIDA		N	.	.	P F	12345678.....E
		RUGOSA		N	.	.	P F	123.....EM
		SPECIOSA		N	.	.	P F	123456.....
	SONCHUS	OLERACEUS		I	I	I	A F	1234567890AHC.NWPEMG
	SPILANTHES	AMERICANA		I	.	.	P F	123.....
	TANACETUM	VULGARE		I	I	.	P F	1234567890AH..WP
	VERBESINA	ALTERNIFOLIA		N	.	.	P F	123.56.....E
		HELIANTHOIDES		N	.	.	P F	123.56.....
		VIRGINICA		N	.	.	P F	123.56.....
		GIGANTEA		N	.	.	P F	123.56.....E
	VERNONIA	MISSURICA		N	.	.	P F	123.56.....
	XANTHIUM	STRUMARIUM	VAR GLABRATUM	N	.	.	A F	123..67.90....
	CALYSTEGIA	SEPIUM		I	.	.	P F	12.4....9.....WP
			SSP AMERICANA	N	.	.	P F	1.3.....
		CAMPESTRIS		N	I	N	P + V	123..67890.HC.
		COMPACTA		N	.	.	P + F	123.56.....
	IPOMOEA	GRONOVII		N	.	.	P + V	1234567.....WP
		hederacea		I	.	.	A V	123.567..0....E
		LACUNOSA		N	.	.	A V F	123.56.....
		PANDURATA		N	.	.	P F V	123.56.....E
		PURPUREA		I	.	.	A V	1234567890....E
		WRIGHTII		I	.	I	P V	.2...6.....C.
		TAMNIFOLIA		I	.	N	A F V	12...6.....C.
		HUMISTRATA		N	.	.	P F V	12...6.....
CORNACEAE	STYLISMA	AMOMUM		N	.	.	S	123.....E
	CORNUS	ASPERIFOLIA		N	.	.	S	.2.....
		DRUMMONDII		N	.	.	S T	123456.....E
		FLORIDA		N	.	.	T	123.56.....E
		FOEMINA		N	.	.	S	123..6.....
	NYSSA	AQUATICA		N	.	.	T	123..6.....
		SYLVATICA		N	.	.	T	123.56.....E
			VAR BIFLORA	N	.	.	T	12...6.....
				N	.	.	T	12...6.....
				N	.	.	T	12...6.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA			DISTRIBUTION
CRASSULACEAE	PENTHORUM	SEDOIDES		N	.	.	P	F	123456.....PEM
	SEDUM	PULCHELLUM		N	.	.	A	B	\$ F 123.56.....
CRUCIFERAE	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	F 123456.890AHC.WEM
	NASTURTIUM	OFFICINALE		I	.	I	P	Z	E F 1234567890...C.WPEM
	SIBARA	VIRGINICA		N	.	.	A	F	123.56...0....
	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.....E
		LURIDA		N	.	.	P	E	G 123456.....EM
	CYPERUS	OVULARIS		N	.	.	P	G	123.56.....E
		PSEUDOVEGETUS		N	.	.	P	E	G 123.56.....
		RETROFRACTUS		N	.	.	P	G	123..6.....
		ROTUNDUS		I	I	N	P	G	123..67...0.HC.
		STRIGOSUS		N	.	.	P	E	G 1234567890....PE
	RHYNCHOSPORA	CORNICULATA		N	.	.	P	E	G 123..6.....
		GLOBULARIS		N	.	N			123..6...0...C.
	SCIRPUS	CYPERINUS		N	.	.	P	E	G 123..6...9....NWPEM
		KOILOLEPIS		N	.	.	A	G	.2...56.....
		POLYPHYLLUS		N	.	.	P	E	G 123.....
DIOSCOREACEAE	DIOSCOREA	VILLOSA		N	.	I	P	V	123.56.....C.E
EBENACEAE	DIOSPYROS	VIRGINIANA		N	.	.	T		123.56.....
EQUISETACEAE	EQUISETUM	HYEMALE	VAR AFFINE	N	.	.	P	F	1234567890A...NWPEM
ERICACEAE	KALMIA	LATIFOLIA		N	.	.	S	T	123.....
	LYONIA	LIGUSTRINA	VAR FOLIOSIFLORA	N	.	.	S		12...6.....
	OXYDENDRUM	ARBOREUM		N	.	.	T		123.....
	RHODODENDRON	CANESCENS		N	.	.	S		.2...6.....
	VACCINIUM	ARBOREUM		N	.	.	S	T	123.56.....
		CORYMBOSUM		N	.	.	S		123..6.....EM
		STAMINEUM		N	.	.	S		123.56.....E
EUPHORBIACEAE	ACALYPHA	RHOMBOIDEA		N	.	.	A	F	123456.....EM
		VIRGINICA		N	.	.	A	F	123456.....
	CROTON	CAPITATUS		N	.	.	A	F	123456.....E
		GLANDULOSUS		N	.	N	A	F	.2...5.....C.
	EUPHORBIA	COMMUTATA		N	.	.	A	F	123.56.....E
		COROLLATA		N	.	.	P	F	123456.....E
		MACULATA		N	.	.	A	F	1234567.90....EM
	SEBASTIANIA	FRUTICOSA		N	.	.	S		.2...6.....
FAGACEAE	CASTANEA	ALNIFOLIA		N	.	.	S	T	12...6.....
		DENTATA		N	.	.	T		123..6.....E
	FAGUS	GRANDIFOLIA		N	.	.	T		123..6.....EM
	QUERCUS	ALBA		N	.	.	T		123.56.....E
		BOREALIS		N	.	.	T		123..6.....
		COCCINEA		N	.	.	T		123..6.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION
		FALCATA		N	.	.	T	123..6.....
		LAURIFOLIA		N	.	.	T	12...6.....
		LYRATA		N	.	.	T	123..6.....
		MARILANDICA		N	.	.	T	123.56.....
		MICHAUXII		N	.	.	T	123..6.....
		MONTANA		N	.	.	T	.2.....
		MUHLENBERGII		N	.	.	T	123.567.....E
		NIGRA		N	.	.	T	123..6.....
		PHELLOS		N	.	.	T	123..6.....
		PRINUS		N	.	.	T	123..6.....E
		RUBRA		N	.	.	T	123.56.....EM
		SHUMARDII		N	.	.	T	123.56.....
		STELLATA		N	.	.	T	123.56.....
		VELUTINA		N	.	.	T	123.56.....E
		VIRGINIANA		N	.	.	T	12...6.....
GENTIANACEAE	GENTIANA	SAPONARIA		N	.	.	P F	123..6.....
		VILLOSA		N	.	.	P F	123.....
	OBOLARIA	VIRGINICA		N	.	.	P - F	123..6.....
	SABATIA	ANGULARIS		N	.	.	A F	123.56.....
	SWERTIA	CAROLINENSIS		N	.	.	P F	123.....E
GERANIACEAE	GERANIUM	MACULATUM		N	.	.	P F	123456.....E
		SPHAEROSPERMUM		N	.	.	.	1234567890....WPE
GRAMINEAE	AGROSTIS	HYEMALIS		N	.	.	P G	123456.89....
		PERENNANS		N	.	.	P G	123456.8....EM
	AIRA	ELEGANS		N	I	.	A G	123..6..90.H..
	ANDROPOGON	GERARDII		N	.	.	P G	123456789....PE
		GLOMERATUS		N	I	N	P G	12...678.O.HC.
		TERNARIUS		N	.	.	P G	123.56.....
		VIRGINICUS		N	I	N	P G	123.56...O.HC.
	ANTHOXANTHUM	ODORATUM		I	I	.	P G	123.....90AH..WPEMG
	ARISTIDA	OLIGANTHA		N	.	.	A G	1234567.90....
	ARUNDINARIA	GIGANTEA		N	.	.	P G	123..6.....
	ARUNDO	DONAX		I	.	I	P G	123..678.O..C.
	AXONOPUS	AFFINIS		N	.	.	P G	.2...6.....
	BRIZA	MINOR		I	.	.	A G	123..6..90....W
	BROMUS	COMMUTATUS		I	.	.	A G	1234567890A...
		JAPONICUS		I	.	.	A G	1234567890....WPE
	CHASMANTHIUM	LATIFOLIUM		N	.	.	P G	123.567.....
		SESSILIFLORUM		N	.	.	P G	123..6.....
	CINNA	ARUNDINACEA		N	.	.	P G	123456.....E
	CYNODON	DACTYLON		I	I	I	P G	123.567890.HC.WEM
	DACTYLIS	GLOMERATA		I	I	.	P G	1234567890AH..WPEMG
	DANTHONIA	SERICEA		N	.	.	P G	123..6..9.A...
	DICHANTHELIUM	COMMUTATUM		N	.	.	.	123..6.....E
		SCOPARIUM		.	.	N	.	123.56.....
		SPHAEROCARPON	VAR ISOPHYLLUM	.	.	.	.	123..6.....
	DIGITARIA	SANGUINALIS		I	I	N	A G	1234567890.HC.WPEM
	ECHINOCHLOA	CRUSGALLI		I	.	.	A G	1234567890....WPEM
	ELEUSINE	INDICA		I	I	I	A G	1234567890.HC.E
	ELYMUS	VIRGINICUS		N	.	.	P G	123456789....WPEM
	ERAGROSTIS	INTERMEDIA		N	.	.	P G	.2...67.....
	ERIANTHUS	ALOPECUROIDES		N	.	.	P G	123..6.....
		CONTORTUS		N	.	.	P G	12...6.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA			DISTRIBUTION
	GLYCERIA	STRIATA		N	.	.	P	E	G 1234567890A...NWPEM
	HORDEUM	PUSILLUM		N	.	.	A	G	1234567890...WE
	LEERSIA	ORYZOIDES		N	.	.	P	E	G 1234567890...WPEM
	LOLIUM	PERENNE	VAR MULTIFLORUM	N	.	.	.		1234567890A...
		TEMULENTUM		I	.	.	A	G	.23..67.90A...NWPEM
	MELICA	MUTICA		N	.	.	P	G	123..6.....
	MUHLENBERGIA	SCHREBERI		N	.	.	P	G	123.56...O...E
	PANICUM	ANCEPS		N	.	.	P	G	123.56.....
		RIGIDULUM		N	.	N	P	G	123.56...O...W
		VIRGATUM		N	.	.	P	G	123456789...PE
	PASPALUM	DILATATUM		I	.	.	P	G	123..67.90....
		LAEEVE		N	.	.	P	G	123.56.....
		URVILLEI		I	.	.	P	G	123..6...O....
	POA	ANNUA		I	I	.	A	G	1234567890AH...NWPEMG
		AUTUMNALIS		N	.	.	P	G	123..6.....
	SCHIZACHYRIUM	SCOPARIUM		N	.	.	P	G	123456789...WPEM
	SETARIA	GLAUCA		I	I	N	A	G	1234567890.H...WPEM
	SORGHASTRUM	NUTANS		N	.	.	P	G	12345678...PE
	SORGHUM	HALEPENSE		I	I	I	P	G	1234567890.HC.E
	SPHENOPHOLIS	OBTUSATA		N	.	.	P	A	G 1234567890A...WP
	STIPA	AVENACEA		N	.	.	P	G	123..6.....
	TRIDENS	FLAVUS		N	.	.	P	G	123.56.....
		STRICTUS		N	.	.	P	G	.23.56.....
	TRIPSACUM	DACTYLOIDES		N	.	.	P	G	123.56.....
	VULPIA	OCTOFLORA		N	.	.	A	G	1234567890...WPE
GUTTIFERAE	ASCYRUM	HYPERICOIDES		N	.	.	S		123.56.....C.
		STANS		N	.	.	S		123..6.....
	HYPERICUM	DENSIFLORUM		N	.	.	S		123..6.....
		DENTICULATUM		N	.	.	P	F	12.....
		PUNCTATUM		N	.	.	P	F	123.56.....EM
HALORRHAGIDACEAE	PROSERPINACA	PALUSTRIS		N	.	.	P	E	Z F 123.....EM
HAMAMELIDACEAE	HAMAMELIS	VIRGINIANA		N	.	.	S	T	123..6.....EM
	LIQUIDAMBAR	STYRACIFLUA		N	.	.	T		123..6.....
HIPPOCASTANACEAE	AESCLUS	PAVIA		N	.	.	S	T	.23..6.....
HYDROPHYLLACEAE	HYDROLEA	UNIFLORA		N	.	.	P	E	F .23..6.....
	HYDROPHYLLUM	MACROPHYLLUM		N	.	.	P	F	123.....
	NEMOPHILA	APHYLLA		N	.	.	A	F	123..6.....
	PHACELIA	BIPINNATIFIDA		N	.	.	B	F	123.....
IRIDACEAE	BELAMCANDA	CHINENSIS		I	I	I	P	F	123456...HC.
	IRIS	CRISTATA		N	.	.	P	F	123..6.....
		VERSCOLOR		N	.	.	P	F	123.5.....NPEN
	SISYRINCHIUM	ANGUSTIFOLIUM		N	.	.	P	F	123.56.....EM
		MUCRONATUM		N	.	.	P	F	1234...9.....
JUGLANDACEAE	CARYA	CORDIFORMIS		N	.	.	T		123.56.....E
		GLABRA		N	.	.	T		123.56.....E
			VAR MEGACARPA	N	.	.	T		.2...6.....
		ILLINOENSIS		N	.	.	T		123.56.....
		LACINIOSA		N	.	.	E	T	123.56.....
		OVATA		N	.	.	T		123.56.....E
			VAR AUSTRALIS	N	.	.	T		.2.....
		TOMENTOSA		N	.	.	T		123.56.....
	JUGLANS	CINEREA		N	.	.	T		123.....EM
		NIGRA		N	.	.	T		123456.....E

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION
JUNCACEAE	JUNCUS	BRACHYCARPUS		N	.	.	P G	123.56.....E
		EFFUSUS		N	I	.	P E G	.2.....AH..WEM
		MARGINATUS		N	.	.	P G	12345678.O....EM
	LUZULA	ECHINATA		N	.	.	P G	123..6.....
LABIATAE		MULTIFLORA		N	.	.	P G	12345...9.A...NG
	BLEPHILIA	CILIATA		N	.	.	P F	123.56.....E
	CUNILA	ORIGANOIDES		N	.	.	H	123.56.....
	GLECOMA	hederacea		I	.	.	P F	123456.890A...WPEM
	HEDEOMA	PULEGIOIDES		N	.	.		123.5.....EM
	LAMium	AMPLEXICAULE		I	.	.	A B F	1234567890....NWPEMG
	LEONURUS	CARDIACA		I	.	.	P F	123456789....WPEM
	LYCOPUS	VIRGINICUS		N	.	.	P F	123.56.....
	MENTHA	SPICATA		I	.	.	P F	123.567890A...WPEM
	MONARDA	FISTULOSA		N	.	.	P F	123456.89.....
		RUSSELLIANA		N	.	.	P F	123.56.....
	NEPETA	CATARIA		I	.	.	P F	1234567890A...WPEM
	PERILLA	FRUTESCENS		I	.	.	A F	123.56.....
	PHYSOSTEGIA	VIRGINIANA		N	.	.	P F	1234567.....
	PRUNELLA	VULGARIS		I	I	.	P F	1234567890.H..WPEM
	pycnanthemum	ALBESCENS		N	.	.	P F	.23.56.....
		FLEXUOSUM		N	.	.	P F	123.5.....
		LOOMISII		.	.	.		123.....
	SALVIA	LYRATA		N	.	.	P F	123.56.....
		URTICIFOLIA		.	.	.		12.....
	SCUTELLARIA	INCANA		N	.	.	P F	123.56.....
		INTEGRIFOLIA		N	.	.	P F	12...6.....
		LATERIFLORA		N	.	.	P F	1234567.90....WPEM
		OVATA	VAR VERSICOLOR	.	.	.		1.3.....
		PARVULA		N	.	.	P F	123.56.....E
	STACHYS	AGRARIA		N	.	.	P F	.2...67.....
		TENUIFOLIA		N	.	.	P F	123456.....
	TEUCRIUM	CANADENSE		N	.	.	P E F	12...6.....EM
LAURACEAE	TRICHOSTEMA	DICHOTOMUM		N	.	.	A F	123..6.....
	LINDERA	BENZOIN		N	.	.	S T	123.56.....E
LEGUMINOSAE	SASSAFRAS	ALBIDUM		N	.	.	T	123.56.....E
	ALBIZIA	JULIBRISSIN		I	.	.	T S	123..678.O....
	AMORPHA	FRUTICOSA		N	.	.	S	123456.8.....E
	AMPHICARPAEA	BRACTEATA		N	.	.	P A F V	123456.....PEM
	APIOS	AMERICANA		N	.	.	P F V	123456.8.....EM
	BAPTISIA	LACTEA		N	.	.		123.56.....E
	CASSIA	FASCICULATA		N	.	.	A F	123456.....
		MARILANDICA		N	.	.	P F	123.56.....
		NICTITANS		N	.	.	A F	123.56.....
		OBTUSIFOLIA		N	.	N	A F	123.56.....C.
		OCCIDENTALIS		N	I	N	A F	123.56.....HC.
	CENTROSEMA	VIRGINIANUM		N	.	N	P V	12...6.....C.
	CERCIS	CANADENSIS		N	.	.	T S	123.56.....
	CLADRASTIS	KENTUKEA		N	.	.		123..6.....
	CLITORIA	MARIANA		N	.	.	P F	123.567.....
	CROTALARIA	SAGITTALIS		N	.	N	A P F	123456.....C.
		SPECTABILIS		I	I	.	A F	12...6.....H..
	DALEA	CANDIDA		N	.	.	P F	123456.....WPE
		PURPUREA		N	.	.	P F	123456789.....WPE

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA				DISTRIBUTION
	DESMANTHUS	ILLINOENSIS		N	.	.	P	F		12345678.....
	DESMODIUM	ACUMINATUM		.	.	.	.	.		.2.....
		CANESCENS		N	.	.	P	F		123.56.....E
		CILIARE		N	.	.	P	F		123.56.....E
		CUSPIDATUM		N	.	.	P	F		123.56.....E
		NUDIFLORUM		N	.	.	P	F		123.56.....E
		PANICULATUM		N	.	.	P	F		123.56.....E
		PAUCIFLORUM		N	.	.	P	F		123.56.....E
		ROTUNDIFOLIUM		N	.	.	P	F		123.56.....E
		SESSILIFOLIUM		N	.	.	P	F		123.56.....E
	DIOCLEA	MULTIFLORA		N	.	.	P	V	W	12...6.....
	ERYTHRINA	HERBACEA		N	.	.	H	S	T	.2...6.....
	GALACTIA	MACREEI		N	.	.	P	V		12...6.....
		VOLUBILIS		N	.	.	P	V		123.56.....
	GLEDITSIA	TRIACANTHOS		N	.	.	T	S		1234567890....EM
	LATHYRUS	HIRSUTUS		I	.	.	A	F	V	123...6...90....
		PUSILLUS		N	.	.	A	F	V	.23.56...9....W
	LESPEDeza	HIRTA		N	.	.	P	F		123.56.....E
		REPENS		N	.	.	P	F		123.56.....
		STIPULACEA		I	.	.	A	F		123.56.....
		STRIATA		I	.	.	A	F		123.56.....
		VIRGINICA		N	.	.	P	F		123.56.....E
	MEDICAGO	ARABICA		I	.	.	A	F		123...6...90....WM
		POLYMORPHA		I	I	.	A	F		123...67890AH...WPE
		SATIVA		I	I	N	P	F		1234567890AHC.NWPEM
	MELILOTUS	ALBA		I	I	.	A	B	F	1234567890AHC.NWPEMG
		OFFICINALIS		I	I	.	B	A	F	1234567890AH...NWPEMG
	PHASEOLUS	POLYSTACHYUS		N	.	.	P	F		123456.8.O....
	PSORALEA	PSORALIOIDES		N	.	.	P	F		12...5.....
	RHYNCHOSIA	LATIFOLIA		N	.	.	P	F	V	.23..6.....
		TOMENTOSA		N	.	.	P	F		12...6.....
	ROBINIA	PSEUDOACACIA		N	.	.	T			1234567890....WEM
	SCHRANKIA	MICROPHYLLA		N	.	.	P	F	V	12.....
	STROPHOSTYLES	HELVOLA		N	.	.	A	V	F	123456.....E
		LEIOSPERMA		N	.	.	A	V	F	1234567.....
		UMBELLATA		N	.	.	P	V	F	123...6.....
	STYLOSANTHES	BIFLORA		N	.	.	P	F		123.56.....
	TEPHROSIA	SPICATA		N	.	.	P	F		12.....
		VIRGINIANA		N	.	.	P	F	H	123.56.....
	TRIFOLIUM	CAMPESTRE		I	.	.	A	B	F	123456...90A...WPEM
		DUBIUM		I	.	.	A	F		1234567.90A...WEM
		INCARNATUM		I	.	.	A	F		123456...90....WE
		PRATENSE		I	I	I	P	B	F	1234567890AHC.NWPEMG
		REPENS		I	.	.	P	F		1234567890A...NWPEMG
		RESUPINATUM		I	.	.	A	F		123456.....
	VICIA	CAROLINIANA		N	.	.	P	F	V	123.56.....E
		CRACCA		I	.	.	P	F		12345...90A...NWPEMG
		GRANDIFLORA		I	.	.	A	F		123.....
		HIRSUTA		I	.	.	A	F		123...6...90....WEMG
		MINUTIFLORA		N	.	.	A	F	V	.23...6.....
		SATIVA	VAR NIGRA	.	.	.	.	.		123.567...OAH...WPEMG
	WISTERIA	FRUTESCENS		N	.	.	W	V		12.....
LILIACEAE	ALETRIS	FARINOSA		N	.	.	P	F		123...6.....E

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FAMILY	GENUS	SPECIES	INFRA SPECIES	C	H	CA			DISTRIBUTION
	ALLIUM	AMPELOPRASUM		I	.	.	P	F	12.....
		BIVALVE		N	.	.	P	F	123.56.....
		CANADENSE		N	.	.	P	F	123456.....EM
	CHAMAELIRIUM	LUTEUM		N	.	.	P	F	123.....E
	ERYTHRONIUM	UMBILICATUM		N	.	.	P	F	123..6.....EM
	LILIUM	CANADENSE	SSP MICHIGANENSE	N	.	.	P	F	12345.....E
	MELANTHIUM	VIRGINICUM		N	.	.	P	F	123.56.....
	MUSCARI	RACEMOSUM		I	.	.	P	F	123..6.....
	POLYGONATUM	BIFLORUM		N	.	.	P	F	123456.....PE
	SMILAX	BONA-NOX		N	.	.	H	V	123.56.....
		LAURIFOLIA		N	.	.	W	V	12...6.....
		ROTUNDIFOLIA		N	.	.	W	V	123.56.....EM
		WALTERI		N	.	.	W	V	12...6.....
	STENANTHIUM	GRAMINEUM		N	.	.	P	F	123..6.....
	TRILLIUM	FLEXIPES		N	.	.	P	F	123.....
		LUDOVICIANUM		N	.	.	P	F	.2.....
		MACULATUM		N	.	.	P	F	.2.....
		SESSILE		N	.	.	P	F	123.56.....
	UVULARIA	PERFOLIATA		N	.	.	P	F	12.....E
	YUCCA	FILAMENTOSA		N	.	.	S		12...5.....
		GLORIOSA		N	.	.	T		.2.....
LINACEAE	LINUM	MEDIUM		N	.	.	P	F	1.....E
LOGANIACEAE	GELSEMIUM	SEMPERVIRENS		N	.	.	W	V	12...6.....
	POLYPREMUM	PROCUMBENS		N	I	.	A	P	123..6....H..
	SPIGELIA	MARILANDICA		N	.	.	P	F	123..6.....
LORANTHACEAE	PHORADENDRON	FLAVESCENS		N	.	.	@	+	123.56.....
LYTHRACEAE	CUPHEA	VISCOSISSIMA		N	.	.	A	F	123.56.....
	LAGERSTROEMIA	INDICA		I	.	I	S	T	.2...6.....C.
	LYTHRUM	ALATUM	VAR LANCEOLATUM	N	.	.	F	H	12...6.....
MAGNOLIACEAE	LIRIODENDRON	TULIPIFERA		N	.	.	T		123..6.....E
	MAGNOLIA	ACUMINATA		N	.	.	T		123..6.....E
		GRANDIFLORA		N	.	.	T		12...6.....
		MACROPHYLLA		N	.	.	T		12.....
		VIRGINIANA		N	.	.	T		12...6.....
MALVACEAE	ABUTILON	THEOPHRASTI		I	.	.	A	F	12345678..O....PEM
	HIBISCUS	MOSCHEUTOS	SSP LASIOCARPOS	N	.	.	P	A	123.567..O....
		SYRIACUS		I	.	.	S		123..6.....
	SIDA	RHOMBIFOLIA		I	I	N	A	P	12...67..O..HC.
		SPINOSA		N	I	N	A	F	123.567...HC.E
MELASTOMATACEAE	RHEXIA	MARIANA		N	.	.	P	F	123..6.....
MELIACEAE	MELIA	AZEDARACH		I	.	I	T		12...67..O..C.
MENISPERMACEAE	CALYCOCARPUM	LYONII		N	.	.	W	V	123.56.....
	COCCULUS	CAROLINUS		N	.	.	W	V	123.56.....
MORACEAE	MACLURA	POMIFERA		N	.	.	T		123456789.....E
	MORUS	RUBRA		N	.	.	T		123.56.8.....E
MYRICACEAE	MYRICA	CERIFERA		N	.	N	S	T	12...6.....C.
OLEACEAE	CHIONANTHUS	VIRGINICUS		N	.	.	T		123..6.....
	FRAXINUS	AMERICANA		N	.	.	T		123.56.....EM
		PENNSYLVANICA		N	.	.	T		123456.89....PEM
	LIGUSTRUM	SINENSE		I	.	.	S		123..6.....
ONAGRACEAE	CIRCAEA	LUTETIANA	SSP CANADENSIS	N	.	.	P	F	123456.....PEM
	GAURA	FILIPES		N	.	.	P	F	123.....
		LONGIFLORA		N	.	.	A	B	123.56.....

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FAMILY	GENUS	SPECIES	INFRA	SPECIES	C	H	CA				DISTRIBUTION
	LUDWIGIA	ALTERNIFOLIA			N	.	.	P	E	F	123.56.....E
		DECURRENS			N	.	.	E	F		123.56.....
		HIRELLA			N	.	.	P	E	F	12...6.....
	OENOTHERA	BIENNIS			I	.	.	B	F		12345678.....WP
		FRUTICOSA	SSP	GLAUCA	N	.	.	P	F		123.....EM
		LACINIATA			N	.	.	A	F		1234567...O....E
		LINIFOLIA			N	.	.	A	F		123.56.....
		PILOSELLA			N	.	.	P	F		123.....E
		SPECIOSA			N	.	.	P	F		123.567...O....
OPHIOGLOSSACEAE	BOTRYCHUM	DISSECTUM			N	.	.	P	F		123.56.....EM
		VIRGINIANUM			N	.	.	P	F		123456789.A...NWPEM
ORCHIDACEAE	PLATANThera	CILIARIS			N	.	.	P	F		123..6.....E
		LACERA			N	.	.	P	F		123.56.....EM
		PERAMOENA			N	.	.	P	F		123.....
	SPIRANTHES	CERNUA			N	.	.	P	F		123.56.....EM
		VERNALIS			N	.	.	P	F		123.56.....
	TRIPHORA	TRIANThOPHORA			N	.	.	P	F		123..6.....E
OROBANCHACEAE	EPIFAGUS	VIRGINIANA			N	.	.	A	+	F	123..6.....EM
OSMUNDACEAE	OSMUNDA	CINNAMOMEA			N	.	N	P	E	F	123..67.....C.EM
		REGALIS			N	.	.	P	F		.23.5.....
OXALIDACEAE	OXALIS	CORNICULATA			I	I	N	P	F		1234567890AHC.WPEM
		STRICTA			N	.	.	P	F		123456789.....WPEM
		VIOLACEA			N	.	.	P	F		123456789.....
PALMAE	SABAL	MINOR			N	.	.	S	T		.2...6.....
PAPAVERACEAE	CORYDALIS	FLAVULA			N	.	.	A	F		123.56.....E
		MICRANTHA			N	.	.	A	F		.23456.....
	SANGUINARIA	CANADENSIS			N	.	.	P	F		123456.....PEM
PASSIFLORACEAE	PASSIFLORA	EDULIS			N	I	N	W	V		123.56.....HC.
PHRYMACEAE	PHRYMA	LEPTOSTACHYA			N	.	.	P	F		123456.....PEM
PHYTOLACCACEAE	PHYTOLACCA	AMERICANA			N	.	.	P	F		123.567.90....E
PINACEAE	JUNIPERUS	VIRGINIANA			N	.	.	T			123456.8.....
	PINUS	ECHINATA			N	.	.	T			123..6.....
		ELLIOTTII			N	.	.	T			.2.....
		GLABRA			N	.	.	T			.2.....
		PALUSTRIS			N	.	.	T			12...6.....
		TAEDA			N	.	.	T			12...6.....
		VIRGINIANA			N	.	.	T			123.....
PLANTAGINACEAE	TAXODIUM	DISTICHUM			N	.	.	E	T		123..6.....
	PLANTAGO	ARISTATA			N	I	.	A	F		123.567.90.H...NWEM
		LANCEOLATA			I	I	I	P	B	A F	1234567890AHC.WPEMG
		VIRGINICA			N	I	.	A	F		1234567...O....
PLATANACEAE	PLATANUS	OCCIDENTALIS			N	.	.	T			123.56.....E
POLEMONIACEAE	PHLOX	AMOENA			N	.	.	P	F		12.....
		CAROLINA			.	.	.	.			123.....
		GLABERRIMA			N	.	.	P	F		123..6.....
		PILOSA			N	.	.	P	F		123.56.....E
	POLEMONIUM	REPTANS			N	.	.	P	F		123.56.....E
POLYGALACEAE	POLYGALA	BOYKINII			N	.	.	A	F		.2.....
		CRUCIATA			N	.	.	A	F		123..6.....
		CURTISSII			N	.	.	A	F		12.....
		INCARNATA			N	.	.	A	F		123.56.....E
		MARIANA			N	.	.	A	F		12...6.....
		NANA			N	.	.	A	F		.2...6.....

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FAMILY	GENUS	SPECIES	INFRA-SPECIES	C	H	CA		DISTRIBUTION
POLYGONACEAE	BRUNNICHIA POLYGONUM	POLYGAMA		N	.	.	B F	123..6.....
		SANGUINEA		N	.	.	A F	1234567.....EM
		SENEGA		N	.	.	P F	12345.....WPEM
		VERTICILLATA		N	.	.	A F	123456..9.....PE
		CIRRHOSE		N	.	.	W V H	123..6.....
		HYDROPIPEROIDES		N	.	.	P E F	123456..90A...WEM
		PENNSYLVANICUM		N	.	.	A E F	1234567890...EM
		PUNCTATUM		N	.	N	P E F	1234567890...C.
		SAGITTATUM		N	.	.	A P F	123456.8.....PEM
		SCANDENS	VAR DUMETORUM	.	.	.	.	123.....
	RUMEX	VIRGINIANUM		N	.	.	A P F	123.56.....E
		ACETOSELLA		I	I	.	P F	1234567890AH..NWPEMG
		ALTISSIMUS		N	.	.	P F	1234567.....E
		CHRYSOCARPUS		N	.	.	P F	.2...6.....
		CRISPUS		I	I	I	P F	1234567890AHC..NWPEM
		HASTATULUS		N	.	.	P F	123.56.....
		PULCHER		I	.	.	P F	123..6..90....
		PEDATUM		N	.	.	P F	123456789.....EM
		PLATYNEURON		N	.	.	P F	123.567.....E
		RHIZOPHYLLUM		.	.	.	.	123.56.....E
POLYPODIACEAE	ADIANTUM ASPLENIUM	FILIX-FEMINA		N	.	.	P F	.2345..89....PEMG
		THELYPTEROIDES		N	.	.	P F	123.....EM
	ATHYRIUM	CHEILANTHES		N	.	.	P F	123.56..9.....
		FRAGILIS		N	.	.	P F	1234567890A...WPEMG
		PELLAEA		N	.	.	P F	1234567.9.....WE
		POLYPODIUM		N	.	N	P @ F	C.
		THELYPTERIS		N	.	N	P F	.2...6.....C.
		WOODSIA		N	.	.	P F	123.56.....E
		CLAYTONIA		N	.	.	P F	123.56.....E
		ANAGALLIS		I	I	.	A F	1234567.90.H..WPEMG
	LYSIMACHIA	CILIATA		N	.	.	P F	123456789.A...WPEM
		HYBRIDA		N	.	.	P F	12345.7.9....WPE
PORTULACACEAE	PRIMULACEAE	LANCEOLATA		N	.	.	P F	123..6.....
		QUADRIFOLIA		N	.	.	P F	123.....EM
PYROLACEAE	HYPOPHYTIS MONOTROPA	MONOTROPA		N	.	.	.	123.567.90A...WPEM
		UNIFLORA		N	.	.	P - \$ F	123456..90A...WPEM
RANUNCULACEAE	ACTAEA ANEMONE	PACHYPODA		N	.	.	P F	123.56.....EM
		QUINQUEFOLIA		N	.	.	P F	12345.....EM
		VIRGINIANA		N	.	.	P F	123456.....WPEM
		CRISPA		N	.	.	W V	123..6.....
	CLEMATIS	VIORNA		N	.	.	W V	123.....
		VIRGINIANA		N	.	.	P V	123456.....PEM
		TRICORNE		N	.	.	P F	123.56.....
		NOBILIS	VAR OBTUSA	N	.	.	.	123.....PEM
	DELPHINIUM HEPATICA RANUNCULUS	ABORTIVUS		N	.	.	B P F	123456..9.A...NWPEM
		FASCICULARIS		N	.	.	P F	123.56.....PE
		HISPIDUS		N	.	.	P F	123456.....E
		MURICATUS		I	I	.	A P F	.2...6..90.H..G
	THALICTRUM	PARVIFLORUS		I	I	.	A F	123..6...O.H..
		RECURVATUS		N	.	.	P F	123456..9.....EM
		DASYCARPUM		N	.	.	P F	123456789....WPE
		THALICTROIDES		N	.	.	P F	123.56.....E
	XANTHORHIZA	SIMPLICISSIMA		N	.	.	S	12...6.....

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

FLORA LIST FOR NATCHEZ TRACE PARKWAY
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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	.	.	S	123..6.....
		CERNUUS		N	.	.	P E F	123.56.....E
		BARBARA		N	.	.	W V	12.....
		VILLOSA		N	.	.	P F	12.....
		ARBORESCENS		N	.	.	S	123.56.....
		QUERCIFOLIA		N	.	.	S	12.....
		VIRGINICA		N	.	.	S	123..6.....
		GRANDIFOLIA		N	.	.	P F	123..6.....
		VIRGINIENSIS		N	.	.	P F	123.....PEM
		CORDIFOLIA		N	.	.	P F	123.....EM
SCROPHULARIACEAE	AUREOLARIA BUCHNERA CASTILLEJA CHELONE GRATIOLA LINARIA LINDERNIA MECARDONIA MIMULUS PEDICULARIS PENSTEMON VERBASCUM VERONICA VERONICASTRUM AILANTHUS DATURA NICANDRA PHYSALIS SOLANUM	FASCICULATA		N	.	N	A F	123.56.....C.
		GATTINGERI		N	.	.	A F	123.56.....E
		HETEROPHYLLA		N	.	.	A F	123.56.....
		TENUIFOLIA		.	.	.	A F	12345678.....PE
		FLAVA		N	.	.	P F	123..6.....E
		PECTINATA		N	.	.	A + F	123..6.....
		AMERICANA		N	.	.	P + F	123.56.....E
		COCCINEA		N	.	.	A F	123.56.....PE
		GLABRA		N	.	.	P F	123.....EM
		OBLIQUA		N	.	.	P F	12.....
		VIRGINIANA		N	.	.	A B E F	123.56.....
		TEXANA		N	I	.	A B F	123456789..H..WP
		VULGARIS		I	.	.	P F	1234567890A...NWPEMG
		DUBIA		N	.	N	A F	123456...90..C.WEM
		ACUMINATA		N	.	.	P F	123.56.....
		ALATUS		N	.	.	P F	123.56.....E
		CANADENSIS		N	.	.	P F	12345678.....PE
		ALLUVIORUM		N	.	.	P F	123.....
		CALYCOSUS		N	.	.	P F	123.....
		LAEVIGATUS		N	.	.	P F	12.....
		TENUIFLORUS		N	.	.	P F	12.....
		BLATTARIA		I	I	.	B F	123.567890.H..WEM
		THAPSUS		I	I	.	B F	1234567890.H..WPEM
		ARVENSIS		I	I	.	A F	1234567890AH..WEMG
		PEREGRINA		N	.	.	A E F	1234567890....WEM
		VIRGINICUM		N	.	.	P F	123456.....PEM
		ALTISSIMA		I	.	.	T	123.567890....E
		STRAMONIUM		N	I	N	A F	1234567890.HC.WPEM
		PHYSALODES		I	I	.	A F	123.56...O.H..EM
		ANGULATA		N	.	N	A F	123.567...O..C.
		PUBESCENS		N	.	N	A F	123..67...O..C.WPEM
		CAROLINENSE		N	.	.	S F	1234567890....E
		NIGRUM		I	N	.	A F	7890A...WPEM
STAPHYLEACEAE STYRACACEAE	STAPHYLEA HALESIA STYRAX	TRIFOLIA		N	.	.	S T	123.56.....E
		DIPTERA		N	.	.	T S	12...6.....
		AMERICANA		N	.	.	S T	123..6.....
SYMPLOCACEAE TILIACEAE TYPHACEAE ULMACEAE	SYMPLOCOS TILIA TYPHA CELTIS ULMUS	GRANDIFOLIA		N	.	.	T	12.....
		TINCTORIA		N	.	.	T S	12...6.....
		AMERICANA		N	.	.	T	123456.....PEM
		LATIFOLIA		N	.	.	P E F	1234567890AH..NWPEM
		LAEVIGATA		N	.	.	T	123.56.....
		OCCIDENTALIS	VAR PUMILA	N	.	.	S T	123456.....
		ALATA		N	.	.	T	123.56.....

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FAMILY	GENUS	SPECIES	INFRASPECIES	C	H	CA		DISTRIBUTION
UMBELLIFERAE	CHAEROPHYLLUM	AMERICANA		N	.	.	T	123456.8.....PEM
		RUBRA		N	.	.	T	123456.....E
		TAINTURIERI		N	.	.	A F	123.567.....
		CICUTA	MACULATA	N	.	.	P F	123456789.....NWPEM
		DAUCUS	CAROTA	I	.	.	B F	1234567890.....WPEM
	ERYNGIUM	PUSILLUS		N	I	.	A F	.23.567.90.H..W
		PROSTRATUM		N	.	.	P F	123.56.....
		YUCCIFOLIUM		N	.	.	P F	123.56.....
	SANICULA	CANADENSIS		N	.	.	B F	123456.....E
		MARILANDICA		N	.	.	P F	12345.789.....WPEM
URTICACEAE	ZIZIA	AUREA		N	.	.	P F	123456.....PEM
	BOEHMERIA	CYLINDRICA		N	.	N	P F	123456.....C.E
	LAPORTEA	CANADENSIS		N	.	.	P F	123456.....PEM
	PILEA	PUMILA		N	.	.	A F	123456.....EM
	URTICA	CHAMAEDRYOIDES		N	.	.	A F	123.56.....
VALERIANACEAE	VALERIANELLA	RADIATA		N	.	.	A F	123.56.....
VERBENACEAE	CALLICARPA	AMERICANA		N	.	.	S	123..6.....
		CANADENSIS		N	.	.	P F	123.56.....
		PHYLA	NODIFLORA	N	.	N	P F	123..67..O..C.
	VERBENA	BONARIENSIS		I	.	N	P F	12...6...O..C.
		BRASILIENSIS		I	.	.	A F	12...56..90....
		HALEI		N	.	.	P F	.2...67.....
	SIMPLEX	RIGIDA		I	.	.	P F	.2...6.....
		URTICIFOLIA		N	.	.	P F	123.56.....E
		XUTHA		N	.	.	A F	.2...67.....
	VIOLA	BICOLOR		N	.	.	A F	123.5678.....
		CUCULLATA		N	.	.	P F	123.....NWPEM
		HIRSUTULA		N	.	.	P F	123.....
		PALMATA		N	.	.	P F	123.....E
		PAPILIONACEA		N	.	.	P F	123.56.....NWPEM
		PEDATA		N	.	.	P F	123.56.....E
		PRIMULIFOLIA		N	.	.	P F	123..6.....
		PUBESCENS		N	.	.	P F	123456.....E
VITACEAE	AMPELOPSIS	ARBOREA	VAR ERIOCARPA	N	.	.	P F	123.56.....
		CORDATA		N	.	.	S W	123..6.....
	PARTHENOCISSUS	QUINQUEFOLIA		N	.	.	W V	123.56.....
		LABRUSCA		I	.	.	W V	12345678.....PEM
	VITIS	ROTUNDIFOLIA		N	.	.	W V	123.....E
		VULPINA		N	.	.	W V	123..6.....
				N	.	.	W V	1234567.....
				N	.	.	W V	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
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NATCHEZ TRACE PARKWAY SYNONYMY LIST

1

1/22/86

SOURCE NAME

ACER NIGRUM
ACERATES VIRIDIFLORA
ACTAEA ALBA
ACTINOMERIS ALTERNIFOLIA
AILANTHUS GLANDULOSA
AIRA CAPILLARIS
AMBROSIA GLANDULOSA
AMBROSIA LEPTOSTACHYA
ANDROPOGON FURCATUS
ANDROPOGON SCOPARIUS
ANEMONELLA THALICTROIDES
ARABIS VIRGINICA
ARISAEMA PUSILLUM
ARUNCUS PUBESCENS
ASCLEPIODORA VIRIDIS
ASTER EXILIS
ASTER TENUICAILIS
BAPTISIA LEUCANTHA
BIDENS BIPINNATA
BREWERIA HUMISTRATA
BRINTONIA DISCOIDEA
CAMPTOSORUS RHIZOPHYLLUS
CARYA CAROLINAE-SEPTENTRIONALIS
CARYA LEIODERMIS
CASSIA TORA
CELTIS PUMILA
CHAMAECRISTA FASCICULATA
CHAMAECRISTA PROCUMBENS
CHRYSANTHEMUM LEUCANTHEMUM
CHRYSOPSIS GRAMINIFOLIA
CHRYSOPSIS MARIANA
CINNA ARUNDINARIA
CIRCAEA LATIFOLIA
CIRSIIUM FLACCIDUM
CLADRASTIS LUTEA
CLEMATIS BEADLEI
COLLINSIA CANADENSIS
CONVOLVULUS REPENS
CONVOLVULUS SEPIUM
CRATAEGUS COLLINA
CRATAEGUS GATTINGERI
CUPHAEA PETIOLATA
DENTARIA HETEROPHYLLA
DESMODIUM BRACTEOSUM
DRYOPTERIS NORMALIS

NPFLORA NAME

ACER SACCHARUM SSP NIGRUM
ASCLPEIAS VIRIDIFLORA
ACTAEA PACHYPODA
VERBESINA ALTERNIFOLIA
AILANTHUS ALTISSIMA
AIRA ELEGANS
AMBROSIA ARTEMISSIFOLIA
SYNONYMY UNCLEAR
ANDROPOGON GERARDII
SCHIZACHYRIUM SCOPARIUM
THALICTRUM THALICTROIDES
SIBARA VIRGINICA
ARISAEMA TRIPHYLLUM SSP PUSILLUM
ARUNCUS DIOICUS VAR PUBESCENS
ASCLEPIAS VIRIDIS
ASTER SUBULATUS VAR LIGULATUS
ASTER PATENS VAR GRACILIS
BAPTISIA LACTEA
COSMOS BIPINNATUS
STYLISMA HUMISTRATA
SOLIDAGO DISCOIDEA
ASPLENIUM RHIZOPHYLLUM
CARYA OVATA VAR AUSTRALIS
CARYA GLABRA VAR MEGACARPA
CASSIA OBTUSIFOLIA
CELTIS OCCIDENTALIS VAR PUMILA
CASSIA FASCICULATA
CASSIA NICTITANS
LEUCANTHEMUM VULGARE
HETEROHECA GRAMINIFOLIA
HETEROHECA MARIANA
CINNA ARUNDINACEA
CIRCAEA LUTETIANA SSP CANADENSIS
CIRSIIUM CAROLINIANUM
CLADRASTIS KENTUCKIA
CLEMATIS VIORNA
SYNONYMY UNCLEAR
CALYSTEGIA SEPIUM SSP AMERICANA
CALYSTEGIA SEPIUM
CRATAEGUS PUNCTATA
CRATAEGUS PRUINOSA
CUPHAEA VISCOSISSIMA
CARDAMINE ANGUSTATA
DESMODIUM CUSPIDATUM
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
 ILYSANTHES 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
 GAMOCHETA 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
 PHYLLOSTACHYS 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 VERNA
 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
 TRIPHORA TRIANTHOPHORA
 POLYGALA SANGUINEA
 POLYGONUM SCANDENS VAR DUMETORUM
 SMALLANTHUS UVEDALIA
 POTENTILLA NORVEGICA SSP MONSPELIENSIS
 PSORALEA PSORALIOIDES
 TOXICODENDRON RADICANS
 RHYNCHOSIA TOMETOSA
 NASTURTIUM OFFICINALE
 DRACOPIIS 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 HELIANTHOIDES
VICIA ANGUSTIFOLIA
VICIA MICRANTHA
VINCETOXICUM GONOCARPUS
VIOLA ERIOCARPA
VIOLA KITAMBELIANA
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