



# INDIANA CLASSIFIED FOREST & WILDLANDS 2014 PROGRAM SUMMARY

## Program Enrollment\*

**Total Enrolled Acres: 746,357**

**Total Number of Parcels: 15,463**

COUNTY	ACRES	PARCELS	COUNTY	ACRES	PARCELS	COUNTY	ACRES	PARCELS
ADAMS	1,639	67	HENDRICKS	1,806	49	PIKE	10,915	161
ALLEN	2,573	99	HENRY	2,321	111	PORTER	5,239	151
BARTHOLOMEW	4,233	101	HOWARD	922	40	POSEY	7,407	141
BENTON	287	6	HUNTINGTON	3,471	131	PULASKI	1,521	43
BLACKFORD	1,070	43	JACKSON	12,599	206	PUTNAM	18,220	324
BOONE	1,848	50	JASPER	2,573	38	RANDOLPH	2,610	97
BROWN	23,091	400	JAY	3,405	137	RIPLEY	10,357	283
CARROLL	3,314	102	JEFFERSON	15,494	258	RUSH	2,061	66
CASS	4,223	136	JENNINGS	16,110	318	SCOTT	5,993	154
CLARK	7,050	93	JOHNSON	1,973	50	SHELBY	1,010	31
CLAY	7,523	175	KNOX	5,012	106	SPENCER	14,603	343
CLINTON	631	27	KOSCIUSKO	11,568	315	ST. JOSEPH	7,629	302
CRAWFORD	24,815	357	LAGRANGE	1,837	53	STARKE	5,980	131
DAVISS	3,870	77	LAKE	2,239	82	STEUBEN	3,639	84
DEARBORN	6,402	144	LAPORTE	9,367	210	SULLIVAN	11,670	198
DECATUR	3,942	119	LAWRENCE	21,812	293	SWITZERLAND	7,591	136
DEKALB	4,510	149	MADISON	1,092	44	TIPPECANOE	2,218	50
DELAWARE	3,003	104	MARION	797	37	TIPTON	400	15
DUBOIS	19,177	406	MARSHALL	10,940	333	UNION	3,078	67
ELKHART	4,603	158	MARTIN	20,807	269	VANDER-	1,427	47
FAYETTE	7,201	164	MIAMI	4,110	139	VERMILLION	8,812	128
FLOYD	3,965	92	MONROE	21,706	372	VIGO	9,546	162
FOUNTAIN	6,503	128	MONTGOMERY	4,369	103	WABASH	4,383	143
FRANKLIN	15,003	244	MORGAN	11,142	202	WARREN	3,794	61
FULTON	4,551	139	NEWTON	841	14	WARRICK	14,832	320
GIBSON	11,372	207	NOBLE	6,367	204	WASHINGTON	20,905	287
GRANT	1,805	73	OHIO	2,763	36	WAYNE	9,081	273
GREENE	25,892	355	ORANGE	23,688	379	WELLS	2,114	77
HAMILTON	1,258	58	OWEN	30,036	524	WHITE	1,129	28
HANCOCK	890	37	PARKE	28,480	374	WHITLEY	3,127	104
HARRISON	31,805	433	PERRY	27,367	509	<b>TOTAL:</b>	<b>746,357</b>	<b>15,463</b>

\*Enrollment as of December 31, 2014

## FOREST CERTIFICATION

Classified Forest & Wildlands owners, with at least ten acres of woodlands in a classified parcel, may choose to belong to the Classified Forest Certified Group. Participation in the group provides green certification of their enrolled forest through the Forest Stewardship Council® (FSC®). As of October 2014, there were 528,693 acres in 10,418 parcels in the Classified Forest Certified Group (FSC-C071226).



The mark of  
responsible forestry

## 2014 ANNUAL REPORT RESULTS

The Classified Forest & Wildlands law (IC 6-1.1-6) requires classified landowners to complete an annual report, a questionnaire, for each parcel of land they have enrolled in the program.

### Management Activity Summary

35% of classified tracts reported at least one type on management activity completed in 2014.

The five most frequently reported management activities were the following:

- 1) Timber stand improvement: grape vine control (13.4% of tracts)
- 2) Invasive species control (12.8% of tracts)
- 3) Brush piles (12.4% of tracts)
- 4) Wildlife foodplots (8.9 % of parcels)
- 5) Trail improvement/Road work (8.2% of parcels)

2014 Activity Completed	Number Times Activity was Reported	% of Total Annual Reports	Quantity Reported*	Average Accomplishment
<i>Boundary/Survey work</i>	440	3.0%	179 miles on 285 parcels	0.62 mile
<i>Brush pile construction</i>	1,822	12.4%	8,487 piles on 1,621 parcels	5 piles
<i>Invasive species control</i>	1,887	12.8%	20,520 acres on 1,467 parcels	14.0 acres
<i>Prescribed burning</i>	325	2.2%	2,426 acres on 216 parcels	11.2 acres
<i>Strip disking / Strip mowing</i>	903	6.1%	6,657 acres on 759 parcels	8.8 acres
<i>Timber harvest</i>	745	5.1%	21,319 acres harvested on 543 tracts	39.3 acres
<i>Timber stand Improvement : grape vine control</i>	1,975	13.4%	24,898 acres on 1,571 parcels	15.8 acres
<i>Timber stand improvement : other than grape vine control</i>	884	6.0%	12,630 acres on 638 parcels	19.8 acres
<i>Trail improvement / Roadwork</i>	1,209	8.2%	266 miles on 932 parcels	0.29 mile
<i>Tree planting</i>	435	3.0%	1,224 acres on 278 parcels	4.4 acres
<i>Warm season (prairie) grass planting</i>	205	1.4%	1,269 acres on 109 parcels	11.6 acres
<i>Water hole development</i>	270	1.8%	255 waterholes on 174 parcels	1.5 waterholes
<i>Wildlife food plots</i>	1,302	8.9%	3,483 acres on 1,147 parcels	3 acres
<i>Misc. activities</i>	13	>0.1%		

\* Not all landowners report the quantity accomplished

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### ***Timber Harvest Details***

The average sale removed 205 trees (based on 363 reports with trees harvested information).

The average volume removed per sale was 78,387 BdFt (based on 242 reports with volume information).

Estimated timber removed on Classified Forest & Wildlands tracts in 2014: 58,398,000 BdFt

### ***Certified Timber Harvest Details***

In 2014 there were 276 timber harvests reported on Indiana Classified Forest Certified Group (ICFCG) tracts.

The average sale removed 260 trees (based on 225 reports with trees harvested information).

The average volume removed per sale was 82,708 BdFt (based on 185 reports with volume information).

Estimated timber removed on ICFCG tracts in 2014: 22,827,408 BdFt.

26 timber sales (1,676 acres) were reported as marketed as FSC certified. The estimated volume sold 1,934,059.

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### **2014 Pesticide Use**

The most commonly reported pesticides were glyphosate, picloram, 2,4-D, and triclopyr.

<b>Chemical</b>	<b>Trade Name(s)</b>
2,4 D	
2,4-D, butoxyethanol ester, triclopyr	Crossbow
2,4-D, quindlorac, dicamba	Bayer Advanced Lawn Weed and Crabgrass Killer
2,4-D & picloram	Pathway,
Clopyralid	
Dicamba	Banvel
Dicamba, 3,4-D triisopropanolamine salt, & MCPP-P	Triplet
Diquat	Diquat
Fluaziflop-P-butyl	Fusilade
Glyphosate	Accord, Eliminator, Pronto Big n Tuf, Rodeo, Roundup
Imazapic	Plateau
Imazapyr	Habitat,
Sethoxydim	Poast
Picloram	Tordon
Simazine	Princep,
Sulfometuron methyl	Oust
Triclopyr	Element , Garlon, Pathfinder, Bayer Brush Killer Plus
Trilsopropanolammonium salt of 2-pyridine carboxylic acid	Milestone

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## **2014 Suggestions for Improving Service Summary**

### **Assistance and Information Requested**

Program info on program policies, adding/removing/selling classified land  
Timber Sales: how to determine if forest is ready, how to market, market information, timber prices  
Forest economics  
Tree planting: species, where to get trees, timing  
Contacts for professional foresters, biologists, & timber buyers, sawmills, invasive species control specialists  
Sources for wildlife seed, trees, duck boxes, wetland plants  
Timber Stand Improvement  
Fire damage—how to restore forest  
Wildlife plantings (species to use)  
Pond/Wetland/Waterhole design and management  
Wildlife management: deer, turkey, beaver  
Trespass control/Dumping prevention  
Trail planning and improvement  
Prescribed burning  
Forest Legacy Program  
Erosion control particularly along streams, ditches, agricultural fields  
Invasive species identification (pictures) control (honeysuckle, multiflora rose, tree of heaven, garlic mustard, autumn olive, Russian olive, fescue, Japanese stilt grass, emerald ash borer)

### **Program Administration Suggestions**

Annual Reports: provide envelope or have district forester pick up at house, stop requiring, make reporting of invasive species general versus specific species, include a map, don't print on blue paper, don't use shiny ink, make form available as a Microsoft Word document  
Decrease paperwork  
Do away with withdrawal penalties  
Put annual report online  
Make online annual report system easier to use; make compatible with Internet Explorer 11  
Requests for additional signs  
More advance notice (2-3 wks) for reinspections  
Hire more district foresters; reduce the size of the coverage area for district forester  
Develop a simple way to develop burn plans.  
Offer a conservation easement option for Classified tracts  
Lower property taxes more  
Make sure contact is made before visiting property

### **Services Wanted from District Foresters**

Property visits  
Cost share (invasive species control, food plots, TSI, trail development, ponds, deer control)  
Help make sure county is provide proper tax benefit  
Prescribed burning assistance  
Marking timber harvests, TSI, firewood  
Posting of CFW signs  
Lobby legislators to stop the taking of forest land by utility companies, for tax free equipment and maintenance product purchases, for stopping the clearing of county drains  
Treatment of invasives along county roads  
Find a use for American elms (<6" circumference)  
Provide resistant chestnut seedlings, wildlife seed for plantings  
Sell pesticides

## General Suggestions

Hold training sessions on evening and weekends  
Create/host webinars  
Workshop on invasives

## Other

Need to have tree pick up at district forester offices; too long of a drive to the nurseries  
Have F&W reduce Adams County to an antlerless status of "A" - not many deer left  
Give our Wildlife Biologists back  
Stop ditch and water quality assessments on classified tracts  
Ownership changes  
Age a limiting factor for doing management  
Pats on the back

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## Rare, Threatened, and Endangered Species

Below is a list of rare, threatened, and endangered species that have been report on or near Classified Forest & Wildlands parcels based on Natural Heritage Database records. SR= state rare, ST= state threatened, SE=state endangered

### PLANTS

SCIENTIFIC NAME	COMMON NAME	STATE PROTECTION STA-
<i>Acalypha deamii</i>	Mercury	SR
<i>Actaea rubra</i>	Red Baneberry	SR
<i>Agalinis auriculata</i>	Earleaf Foxglove	ST
<i>Agalinis skinneriana</i>	Pale False Foxglove	ST
<i>Andromeda glaucophylla</i>	Bog Rosemary	SR
<i>Arabis missouriensis</i> var. <i>deamii</i>	Missouri Rockcress	SE
<i>Arabis patens</i>	Spreading Rockcress	SE
<i>Arctostaphylos uva-ursi</i>	Bearberry	SR
<i>Aristida intermedia</i>	Slim-spike Three-awn Grass	SR
<i>Armoracia aquatica</i>	Lake Cress	SE
<i>Asplenium bradleyi</i>	Bradley's Spleenwort	SE
<i>Asplenium montanum</i>	Mountain Spleenwort	SE
<i>Asplenium resiliens</i>	Black-stem Spleenwort	SE
<i>Asplenium ruta-muraria</i>	Wallrue Spleenwort	SR
<i>Aster borealis</i>	Rushlike Aster	SR
<i>Aster furcatus</i>	Forked Aster	SR
<i>Aster oblongifolius</i>	Aromatic Aster	SR
<i>Aster sericeus</i>	Western Silvery Aster	SR
<i>Bacopa rotundifolia</i>	Roundleaf Water-hyssop	ST
<i>Baptisia australis</i>	Wild False Indigo	SR
<i>Besseyia bullii</i>	Kitten Tails	SE
<i>Bidens beckii</i>	Beck Water-marigold	ST
<i>Botrychium matricariifolium</i>	Chamomile Grape-fern	SR
<i>Botrychium simplex</i>	Least Grape-fern	SE
<i>Bumelia lycioides</i>	Buckthorn	SE
<i>Calamagrostis porteri</i> ssp. <i>insperata</i>	Reed Bent Grass	ST
<i>Calla palustris</i>	Wild Calla	SE
<i>Carex alopecoidea</i>	Foxtail Sedge	SE
<i>Carex arctata</i>	Black Sedge	SE
<i>Carex atherodes</i>	Awned Sedge	SE
<i>Carex atlantica</i> ssp. <i>atlantica</i>	Atlantic Sedge	ST

**PLANTS**

<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
<i>Carex atlantica</i> ssp. <i>capillacea</i>	Howe Sedge	SE
<i>Carex aurea</i>	Golden-fruited Sedge	SR
<i>Carex bushii</i>	Bush's Sedge	ST
<i>Carex conoidea</i>	Prairie Gray Sedge	ST
<i>Carex crawei</i>	Crawe Sedge	ST
<i>Carex debilis</i> var. <i>rudgei</i>	White-edge Sedge	SR
<i>Carex decomposita</i>	Cypress-knee Sedge	ST
<i>Carex eburnea</i>	Ebony Sedge	SR
<i>Carex flava</i>	Yellow Sedge	ST
<i>Carex folliculata</i>	Long Sedge	SR
<i>Carex gigantea</i>	Large Sedge	ST
<i>Carex gravida</i>	Heavy Sedge	SE
<i>Carex lupuliformis</i>	False Hop Sedge	SR
<i>Carex pedunculata</i>	Longstalk Sedge	SR
<i>Carex scabrata</i>	Rough Sedge	SE
<i>Carex seorsa</i>	Weak Stellate Sedge	SR
<i>Carex socialis</i>	Social Sedge	SR
<i>Carya pallida</i>	Sand Hickory	SE
<i>Ceratophyllum echinatum</i>	Prickly Hornwort	SR
<i>Chamaelirium luteum</i>	Devil's-bit	SE
<i>Cheilanthes lanosa</i>	Hairy Lipfern	SR
<i>Chrysopsis villosa</i>	Hairy Golden-aster	ST
<i>Chrysosplenium americanum</i>	American Golden-saxifrage	ST
<i>Cimicifuga rubifolia</i>	Appalachian Bugbane	SE
<i>Clematis pitcheri</i>	Pitcher Leather-flower	SR
<i>Clintonia borealis</i>	Clinton Lily	SE
<i>Cornus rugosa</i>	Roundleaf Dogwood	SR
<i>Crotonopsis elliptica</i>	Elliptical Rushfoil	SE
<i>Cyperus dentatus</i>	Toothed Sedge	SE
<i>Cyperus houghtonii</i>	Houghton's Nutsedge	SE
<i>Cyperus pseudovegetus</i>	Green Flatsedge	SR
<i>Cypripedium calceolus</i> var. <i>parviflorum</i>	Small Yellow Lady's-slipper	SR
<i>Deschampsia cespitosa</i>	Tufted Hairgrass	SR
<i>Dichanthelium sabulorum</i> var. <i>thinium</i>	Hemlock Panic-grass	SR
<i>Diervilla lonicera</i>	Northern Bush-honeysuckle	SR
<i>Dodecatheon frenchii</i>	French's Shootingstar	SR
<i>Drosera intermedia</i>	Spoon-leaved Sundew	SR
<i>Eleocharis microcarpa</i>	Small-fruited Spike-rush	SE
<i>Eleocharis robbinsii</i>	Robbins Spikerush	SR
<i>Eleocharis wolfii</i>	Wolf Spikerush	SR
<i>Eriophorum angustifolium</i>	Narrow-leaved Cotton-grass	SR
<i>Eriophorum gracile</i>	Slender Cotton-grass	ST
<i>Eriophorum viridicarinatum</i>	Green-keeled Cotton-grass	SR
<i>Eupatorium incarnatum</i>	Pink Thoroughwort	ST
<i>Euphorbia obtusata</i>	Bluntleaf Spurge	SE
<i>Festuca paradoxa</i>	Cluster Fescue	ST
<i>Fragaria vesca</i> var. <i>americana</i>	Woodland Strawberry	SE
<i>Fuirena pumila</i>	Dwarf Umbrella-sedge	ST
<i>Gaura filipes</i>	Slender-stalked Gaura	ST
<i>Gentiana puberulenta</i>	Downy Gentian	ST

**PLANTS**

<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
<i>Geranium robertianum</i>	Herb-robert	ST
<i>Gonolobus obliquus</i>	Angle Pod	SR
<i>Heliotropium tenellum</i>	Slender Heliotrope	ST
<i>Hexalectris spicata</i>	Crested Coralroot	SR
<i>Hottonia inflata</i>	Featherfoil	ST
<i>Houstonia nigricans</i>	Narrowleaf Summer Bluets	SR
<i>Hudsonia tomentosa</i>	Sand-heather	ST
<i>Hypericum adpressum</i>	Creeping St. John's-wort	SE
<i>Hypericum denticulatum</i>	Coppery St. John's-wort	ST
<i>Hypericum dolabriforme</i>	Straggling St. John's-wort	SR
<i>Iresine rhizomatosa</i>	Eastern Bloodleaf	SR
<i>Isoetes melanopoda</i>	Blackfoot Quillwort	ST
<i>Itea virginica</i>	Virginia Willow	SE
<i>Juncus articulatus</i>	Jointed Rush	SE
<i>Juncus balticus</i> var. <i>littoralis</i>	Baltic Rush	SR
<i>Juncus pelocarpus</i>	Brown-fruited Rush	SE
<i>Juncus scirpoides</i>	Scirpus-like Rush	ST
<i>Juniperus communis</i>	Ground Juniper	SR
<i>Lathyrus venosus</i>	Smooth Veiny Pea	ST
<i>Lechea racemulosa</i>	Illinois Pinweed	SE
<i>Lemna minima</i>	Least Duckweed	SE
<i>Lemna valdiviana</i>	Pale Duckweed	SE
<i>Leptochloa panicoides</i>	Amazon Sprangle-top	SE
<i>Ligusticum canadense</i>	Nondo Lovage	SE
<i>Lilium canadense</i>	Canada Lily	SR
<i>Linum sulcatum</i>	Grooved Yellow Flax	SR
<i>Lithospermum incisum</i>	Narrow-leaved Puccoon	SE
<i>Ludwigia glandulosa</i>	Cylindric-fruited Seedbox	ST
<i>Lycopodiella inundata</i>	Northern Bog Clubmoss	SE
<i>Lycopodium hickeyi</i>	Hickey's Clubmoss	SR
<i>Lycopodium obscurum</i>	Tree Clubmoss	SR
<i>Lycopodium tristachyum</i>	Deep-root Clubmoss	SR
<i>Magnolia tripetala</i>	Umbrella Magnolia	SE
<i>Matteuccia struthiopteris</i>	Ostrich Fern	SR
<i>Melampyrum lineare</i>	American Cow-wheat	SR
<i>Melica nitens</i>	Three-flower Melic Grass	ST
<i>Melothria pendula</i>	Creeping Cucumber	SE
<i>Milium effusum</i>	Tall Millet-grass	SR
<i>Myriophyllum pinnatum</i>	Cutleaf Water-milfoil	SE
<i>Myriophyllum verticillatum</i>	Whorled Water-milfoil	SR
<i>Najas gracillima</i>	Thread-like Naiad	ST
<i>Napaea dioica</i>	Glade Mallow	SR
<i>Nothoscordum bivalve</i>	Crow-poison	SR
<i>Oenothera perennis</i>	Small Sundrops	SR
<i>Oryzopsis racemosa</i>	Black-fruit Mountain-ricegrass	SR
<i>Oxydendrum arboreum</i>	Sourwood	SR
<i>Pachysandra procumbens</i>	Allegheny Spurge	SE
<i>Panicum boreale</i>	Northern Witchgrass	SR
<i>Panicum leibergii</i>	Leiberg's Witchgrass	ST
<i>Panicum scoparium</i>	Broom Panic-grass	SE
<i>Passiflora incarnata</i>	Purple Passion-flower	SR
<i>Penstemon canescens</i>	Gray Beardtongue	SE

**PLANTS**

<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STA-TUS</b>
<i>Penstemon deamii</i>	Deam Beardtongue	SR
<i>Perideridia americana</i>	Eastern Eulophus	SE
<i>Phacelia covillei</i>	Buttercup scorpionweed	SE
<i>Phlox amplifolia</i>	Large-leaved Phlox	SR
<i>Phlox bifida</i> ssp. <i>stellaria</i>	Cleft Phlox	SE
<i>Phlox pilosa</i> ssp. <i>deamii</i>		SE
<i>Pinus banksiana</i>	Jack Pine	SR
<i>Pinus strobus</i>	Eastern White Pine	SR
<i>Plantago cordata</i>	Heart-leaved Plantain	SE
<i>Platanthera flava</i> var. <i>flava</i>	Southern Rein Orchid	SE
<i>Platanthera hyperborea</i>	Leafy Northern Green Orchis	ST
<i>Platanthera leucophaea</i>	Prairie White-fringed Orchid	SE
<i>Platanthera psycodes</i>	Small Purple-fringe Orchis	SR
<i>Poa alsodes</i>	Grove Meadow Grass	SR
<i>Poa wolfii</i>	Wolf Bluegrass	SR
<i>Polygonum careyi</i>	Carey's Smartweed	ST
<i>Polygonum hydropiperoides</i> var. <i>opel-ousanum</i>	Northeastern Smartweed	ST
<i>Polypodium polypodioides</i>	Resurrection Fern	SR
<i>Polytaenia nuttallii</i>	Prairie Parsley	SE
<i>Potamogeton bicupulatus</i>	Snail-seed Pondweed	SE
<i>Potamogeton epihydrus</i>	Nuttall Pondweed	SE
<i>Potamogeton richardsonii</i>	Redheadgrass	SR
<i>Potamogeton strictifolius</i>	Straight-leaf Pondweed	ST
<i>Potamogeton vaseyi</i>	Vasey's Pondweed	SE
<i>Prenanthes aspera</i>	Rough Rattlesnake-root	SR
<i>Prunus pensylvanica</i>	Fire Cherry	SR
<i>Psilocarya scirpoides</i>	Long-beaked Baldrush	ST
<i>Pyrola asarifolia</i>	Pink Wintergreen	SE
<i>Pyrola rotundifolia</i> var. <i>americana</i>	American Wintergreen	SR
<i>Quercus prinoides</i>	Dwarf Chinquapin Oak	SE
<i>Ranunculus pusillus</i>	Pursh Buttercup	SE
<i>Rhus aromatica</i> var. <i>arenaria</i>	Beach Sumac	SR
<i>Rhynchospora corniculata</i> var. <i>interior</i>	Short-bristle Horned-rush	ST
<i>Rhynchospora macrostachya</i>	Tall Beaked-rush	SR
<i>Rhynchospora recognita</i>	Globe Beaked-rush	SE
<i>Rubus centralis</i>	Illinois Blackberry	SE
<i>Rudbeckia fulgida</i> var. <i>umbrosa</i>	Coneflower	SE
<i>Salix serissima</i>	Autumn Willow	ST
<i>Sanguisorba canadensis</i>	Canada Burnet	SE
<i>Sanicula smallii</i>	Small's Snakeroot	SR
<i>Saxifraga forbesii</i>	Forbes Saxifrage	SE
<i>Scirpus hallii</i>	Hall's Bulrush	SE
<i>Scirpus smithii</i>	Smith's Bulrush	SE
<i>Scirpus subterminalis</i>	Water Bulrush	SR
<i>Scleria reticularis</i>	Reticulated Nutrush	ST
<i>Sedum telephioides</i>	Allegheny Stonecrop	SR
<i>Selaginella rupestris</i>	Ledge Spike-moss	ST
<i>Solidago ptarmicoides</i>	Prairie Goldenrod	SR
<i>Spigelia marilandica</i>	Woodland Pinkroot	SE
<i>Spiranthes lucida</i>	Shining Ladies'-tresses	SR



**PLANTS**

<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
<i>Spiranthes magnicamporum</i>	Great Plains Ladies'-tresses	SE
<i>Spiranthes romanzoffiana</i>	Hooded Ladies'-tresses	ST
<i>Stenanthium gramineum</i>	Eastern Featherbells	ST
<i>Stipa avenacea</i>	Blackseed Needlegrass	SR
<i>Strophostyles leiosperma</i>	Slick-seed Wild-bean	ST
<i>Styrax grandifolius</i>	Large-leaf Snowbell	SE
<i>Sullivantia sullivantii</i>	Sullivantia	ST
<i>Taxodium distichum</i>	Bald Cypress	ST
<i>Thalictrum pubescens</i>	Tall Meadowrue	ST
<i>Thuja occidentalis</i>	Northern White Cedar	SE
<i>Tofieldia glutinosa</i>	False Asphodel	SR
<i>Trachelospermum difforme</i>	Climbing Dogbane	SR
<i>Trichostema dichotomum</i>	Forked Bluecurl	SR
<i>Trifolium stoloniferum</i>	Running Buffalo Clover	SE
<i>Triglochin palustris</i>	Marsh Arrow-grass	SR
<i>Utricularia cornuta</i>	Horned Bladderwort	ST
<i>Utricularia purpurea</i>	Purple Bladderwort	SR
<i>Utricularia subulata</i>	Zigzag Bladderwort	ST
<i>Uvularia perfoliata</i>	Bellwort	SE
<i>Vaccinium myrtilloides</i>	Velvetleaf Blueberry	SE
<i>Vaccinium oxycoccus</i>	Small Cranberry	ST
<i>Valeriana edulis</i>	Hairy Valerian	SE
<i>Valerianella chenopodiifolia</i>	Goose-foot Corn-salad	SE
<i>Viburnum molle</i>	Softleaf Arrow-wood	SR
<i>Viburnum opulus</i> var. <i>americanum</i>	Highbush-cranberry	SE
<i>Viola pedatifida</i>	Prairie Violet	ST
<i>Vitis palmata</i>	Catbird Grape	SR
<i>Vitis rupestris</i>	Sand Grape	SE
<i>Waldsteinia fragarioides</i>	Barren Strawberry	SR
<i>Wisteria macrostachya</i>	Kentucky Wisteria	SR
<i>Wolffiella gladiata</i>	Sword Bogmat	SE
<i>Woodwardia areolata</i>	Netted Chainfern	SR
<i>Xyris difformis</i>	Carolina Yellow-eyed Grass	ST
<i>Zannichellia palustris</i>	Horned Pondweed	SR
<i>Zigadenus elegans</i> var. <i>glaucus</i>	White Camas	SR
<i>Zizia aptera</i>	Golden Alexanders	SR

**INVERTEBRATE ANIMALS**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
ARACHNIDS	<i>Erebomaster flavescens</i>	Golden Cave Harvestman	ST
	<i>Kleptochthonius packardi</i>	Packard's Cave Pseudoscorpion	SE
CRUSTACEANS	<i>Caecidotea jordani</i>	Jordan's groundwater isopod	SE
DIPLOPLODA	<i>Pseudotremia conservata</i>	Tnc Cave Milliped	SE

**INVERTEBRATE**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
ELLIPLURA	<i>Arrhopalites ater</i>	Black Medusa Cave Springtail	ST
	<i>Arrhopalites lewisi</i>	Lewis' Cave Springtail	ST
	<i>Hypogastrura lucifuga</i>	Wyandotte Cave Springtail	SE
	<i>Pseudosinella fonsa</i>	Fountain Cave Springtail	ST
	<i>Sinella barri</i>	Barr's Cave Springtail	SE
INSECTS	<i>Achalarus lyciades</i>	The Hoary Edge Skipper	SR
	<i>Acronicta dactylina</i>		SR
	<i>Aeshna mutata</i>	Spatterdock Darner	ST
	<i>Aethes patricia</i>		SE
	<i>Agrotis stigmata</i>		ST
	<i>Agrotis vetusta</i>	A Moth	SR
	<i>Amblyscirtes hegon</i>	Salt-and-pepper Skipper	SR
	<i>Amblyscirtes vialis</i>	Common Roadside-skipper	SR
	<i>Ancylis semiovana</i>		SR
	<i>Anepia capsularis</i>	The Starry Campion Capsule Moth	SR
	<i>Apamea burgessi</i>	A Noctuid Moth	ST
	<i>Apamea lignicolora</i>	The Wood-colored Apamea	ST
	<i>Apamea lutosa</i>	Opalescent Apamea	SE
	<i>Apamea nigror</i>	Black-dashed Apamea	SR
	<i>Atrytonopsis hianna</i>	Dusted Skipper	ST
	<i>Boloria selene myrina</i>	Silver-bordered Fritillary	ST
	<i>Boloria selene nebraskensis</i>	The Nebraska Silver Bordered Fritillary	SE
	<i>Bruchomorpha dorsata</i>		SR
	<i>Bruchomorpha extensa</i>	The Long-nosed Elephant Hopper	SR
	<i>Bruchomorpha oculata</i>		SR
	<i>Callophrys irus</i>	Frosted Elfin	SE
	<i>Calycopis cecrops</i>	Red-banded Hairstreak	SR
	<i>Capis curvata</i>	A Noctuid Moth	ST
	<i>Catocala flebilis</i>	The Black-dashed Underwing Moth	SR
	<i>Catocala gracilis</i>	Graceful Underwing	SR
	<i>Catocala praeclara</i>	Praeclara Underwing	SR
	<i>Chloealtis conspersa</i>	Sprinkled Locust	SR
	<i>Chlorotettix fallax</i>	A Leafhopper	SR
	<i>Chortodes enervata</i>	The Many-lined Cordgrass Moth	ST
	<i>Chrysanympa formosa</i>	The Huckleberry Looper Moth	SR
	<i>Cicadula straminea</i>		ST
	<i>Cicindela marginipennis</i>	Cobblestone Tiger Beetle	SE
	<i>Coenochroa bipunctella</i>	Sand Dune Panic Grass Moth	SR
	<i>Coenochroa illibella</i>	Dune Panic Grass Moth	SR
	<i>Conocephalus saltans</i>	Prairie Meadow Katydid	SR
	<i>Cosmotettix bilineatus</i>	Two-lined cosmotettix	ST
	<i>Crambus bidens</i>		SR
	<i>Crambus girardellus</i>	Orange-striped Sedge Moth	SR
	<i>Crambus murellus</i>	Prairie Sedge Moth	ST
	<i>Croesia curvalana</i>		SR
	<i>Croesia semipurpurana</i>		SR

**INVERTEBRATE**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
INSECTS	<i>Cyclophora penduliniaria</i>	Sweetfern Geometer	SR
	<i>Cygnia inopinatus</i>	The Unexpected Milkweed Moth	SR
	<i>Cyllopsis gemma</i>	Gemmed Satyr	SR
	<i>Epipaschia zelleri</i>		SR
	<i>Erynnis martialis</i>	Mottled Duskywing	ST
	<i>Erynnis persius persius</i>	Persius Dusky Wing	SE
	<i>Eubaphe meridiana</i>	AMoth	SR
	<i>Euchloe olympia</i>	Olympia Marble	ST
	<i>Eucloptocnemis fimbriaris</i>	A Noctuid Moth	ST
	<i>Eucosma bilineana</i>		SR
	<i>Eucosma bipunctella</i>	A Moth	SR
	<i>Eucosma fulminana</i>		SR
	<i>Eucosma giganteana</i>		SR
	<i>Euphydryas phaeton</i>	Baltimore	SR
	<i>Euphyes bimacula</i>	Two-spotted Skipper	ST
	<i>Euphyes dion</i>	Sedge Skipper	SR
	<i>Euphyes dukesi</i>	Scarce Swamp Skipper	ST
	<i>Euxoa albipennis</i>	White-striped Dart	SR
	<i>Fagitana littera</i>	The Marsh Fern Moth	ST
	<i>Faronta rubripennis</i>	The Pine Streak	ST
	<i>Flexamia pyrops</i>	The Long-nose Three-awn Leafhopper	SR
	<i>Flexamia reflexus</i>	Indiangrass Flexamia	ST
	<i>Gabara subnivosella</i>	A Noctuid Moth	SR
	<i>Graminella mohri</i>		SR
	<i>Grammia anna</i>	Anna's tiger moth	SR
	<i>Grammia figurata</i>	The Figured Grammia	SR
	<i>Grammia phyllira</i>	The Sand Barrens Grammia	SR
	<i>Grammia virguncula</i>		SR
	<i>Hagenius brevistylus</i>	Dragonhunter	SR
	<i>Hemaris gracilis</i>	The Blueberry Clearwing Sphinx	SR
	<i>Hermeuptychia sosybius</i>	Carolina Satyr	SR
	<i>Herpetogramma thestealis</i>		SR
	<i>Hesperia leonardus</i>	Leonard's Skipper	SR
	<i>Hesperia metea</i>	Cobweb Skipper	ST
	<i>Hesperotettix viridis pratensis</i>	A Grasshopper	SR
	<i>Holomelina opella</i>	The Smokey Holomelina	SR
	<i>Homophoberia cristata</i>	A Noctuid Moth	SR
	<i>Hypenodes caducus</i>	Large Hypenodes	SR
	<i>Laevicephalus acus</i>		SR
	<i>Lesmone detrahens</i>	A Moth	SR
	<i>Leucania inermis</i>	A Moth	SR
	<i>Leucania linita</i>	Salt Marsh Wainscot	SR
<i>Leucania multilinea</i>		SR	
<i>Limotettix divaricatus</i>		ST	
<i>Loxagrotis acclivis</i>	A Noctuid Moth	ST	
<i>Lycaeides melissa samuelis</i>	Karner Blue	SE	
<i>Lycaena dorcas dorcas</i>	Dorcas Copper	SR	
<i>Lycaena helloides</i>	Purplish Copper	SR	

**INVERTEBRATE**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
INSECTS	<i>Lyctosis permagnaria</i>	A Lyctosis Moth	ST
	<i>Macrochilo absorptalis</i>	A Moth	SR
	<i>Macrochilo hypocriticalis</i>	A Noctuid Moth	SR
	<i>Macrochilo louisiana</i>		ST
	<i>Melanomma auricinctaria</i>	Huckleberry Eye-spot Moth	SR
	<i>Melanoplus gracilis</i>	Graceful Spur-throated Grasshopper	SR
	<i>Melanoplus tepidus</i>	The Fearful Barrens Locust	SR
		Green-legged Spur-throated Grasshopper	
	<i>Melanoplus viridipes viridipes</i>		SR
	<i>Merope tuber</i>	Earwig Scorpionfly	SE
	<i>Meropleon ambifuscum</i>	Newman's Brocade	ST
	<i>Meropleon diversicolor</i>	A Noctuid Moth	SR
	<i>Mesamia nigradorsum</i>	A Leafhopper	SR
	<i>Mesamia stramineus</i>	Helianthus Leafhopper	SE
	<i>Mesapamea stipata</i>	The Four-lined Cordgrass Borer	SE
	<i>Metanema determinata</i>	Dark Metanema	SR
	<i>Metanema inatomaria</i>	Pale Metanema	SR
	<i>Mydas tibialis</i>	Golden Legged Mydas Fly	ST
	<i>Nectopsyche pavidia</i>	A Longhorned Casemaker Caddisfly	SR
	<i>Neoconocephalus exiliscanorus</i>	A Katydid	SR
	<i>Neoconocephalus nebrascensis</i>	A Katydid	SR
	<i>Neonympha mitchellii mitchellii</i>	Mitchell's Satyr	SE
	<i>Nephoterix dammersi</i>	Leadplant Leafwebber Moth	SE
	<i>Nola cilicoides</i>		SR
	<i>Nola pustulata</i>	Sharp-blotched Nola	SR
	<i>Odontosia elegans</i>	Elegant Prominent	SR
	<i>Oligia obtusa</i>	A Noctuid Moth	SE
	<i>Orphulella pelidna</i>	Green Desert Grasshopper	SR
	<i>Paectes abrostolella</i>	The Barrens Paectes Moth	SR
	<i>Pagara simplex</i>	A Moth	SR
	<i>Pangrapta decoralis</i>	The Multicolored Huckleberry Moth	ST
	<i>Papaipema cerina</i>	Golden Borer Moth	ST
	<i>Papaipema harrisii</i>	Heracleum Stem Borer Moth	SR
	<i>Papaipema leucostigma</i>	Columbine Borer	ST
	<i>Papaipema lysimachiae</i>	The St. John'Swort Borer Moth	SR
	<i>Papaipema maritima</i>	The Giant Sunflower Borer Moth	ST
	<i>Papaipema rigida</i>	A Borer Moth	SR
	<i>Papaipema rutila</i>	The Mayapple Borer Moth	SR
	<i>Papaipema sciata</i>	The Culver's Root Borer	ST
	<i>Papaipema silphii</i>	Silphium Borer Moth	ST
	<i>Papaipema speciosissima</i>	The Royal Fern Borer Moth	ST
	<i>Paraphlepsius lobatus</i>		ST
<i>Parasa indetermina</i>	A Moth	SR	
<i>Peoria gemmatella</i>	Gemmed Cordgrass Borer	SR	
<i>Peoria tetradella</i>		SR	
<i>Phaneta ochroterminana</i>		SR	
<i>Phaneta olivaceana</i>		SR	
<i>Phaneta ornatula</i>		SR	
<i>Phaneta raracana</i>		SR	

**INVERTEBRATE**

INSECTS	SCIENTIFIC NAME	COMMON NAME	STATE PROTECTION STA-
	<i>Phaneta striatana</i>		SR
	<i>Phaneta umbrastriana</i>		SR
	<i>Philaenarcys killa</i>	Great Lakes dune spittlebug	SR
	<i>Pieris oleracea</i>	Eastern Veined White	SE
	<i>Platyperigea meralis</i>	The Rare Sand Quaker	ST
	<i>Poanes massasoit</i>	Mulberry Wing Skipper	SR
	<i>Poanes viator viator</i>	Big Broad-winged Skipper	ST
	<i>Polites mystic</i>	Long Dash Skipper	SR
	<i>Polyamia caperata</i>	Little Bluestem Polyamia	SR
	<i>Polyamia dilata</i>	The Short-winged Panic Grass Leafhopper	SE
	<i>Polyamia herbida</i>	The Prairie Panic Grass Leafhopper	ST
	<i>Polyamia obtectus</i>	Sand Panic Grass Leafhopper	SR
	<i>Polygonia progne</i>	Gray Comma	SR
	<i>Prairiana kansana</i>	The Kansas Prairie Leafhopper	SE
	<i>Problema byssus</i>	Bunchgrass Skipper	ST
	<i>Prosapia ignipectus</i>	Red-legged Spittle Bug	SR
	<i>Protorthodes incincta</i>	Saturn quaker	SR
	<i>Pseudanophthalmus youngi</i>	Young's cave ground beetle	SR
	<i>Pseudopomala brachyptera</i>	Bunch Grass Locust	ST
	<i>Psinidia fenestralis</i>	Sand Locust	SR
	<i>Pycnopsyche rossi</i>	A Northern Casemaker Caddisfly	SE
	<i>Pygarctia spraguei</i>	Sprague's Pygartic	SR
	<i>Pyrausta laticlavata</i>	The Southern Purple Mint Moth	SR
	<i>Satyrodes appalachia appalachia</i>	Appalachian Eyed Brown	SE
	<i>Satyrodes eurydice fumosa</i>	Smoky-eyed Brown	ST
	<i>Scaphoideus ochraceus</i>		SR
	<i>Schinia indiana</i>	Phlox Moth	SE
	<i>Schinia septentrionalis</i>	A Noctuid Moth	SR
	<i>Scirpophaga perstrialis</i>		SR
	<i>Semiothisa eremiata</i>	The Goat's Rue Looper	SR
	<i>Semiothisa mellistrigata</i>	A Geometrid Moth	SR
	<i>Semiothisa multilineata</i>		SR
	<i>Sitochroa dasconalis</i>	Pearly Indigo Borer	ST
	<i>Spartiniphaga inops</i>	Spartina Borer Moth	SR
	<i>Sphinx luscitiosa</i>	The Luscious Willow Sphinx	SR
	<i>Spilosoma latipennis</i>	The Red-legged Tussock Moth	SR
	<i>Stylogomphus sigmastylus</i>	Least Clubtail	SE
	<i>Tachopteryx thoreyi</i>	Gray Petaltail	SR
	<i>Tampa dimediatella</i>	Red-striped Panic Grass Moth	ST
	<i>Thorybes pylades</i>	Northern Cloudywing	SR
	<i>Tricholita notata</i>	Marked Noctuid	ST
	<i>Trichosilia manifesta</i>	The Record Keeper Moth	SR
	<i>Trimerotropis maritima</i>	The Dune Locust	ST
	<i>Zomaria interruptolinea</i>		SR

**INVERTEBRATE**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
MOLLUSKS	<i>Antroselatus spiralis</i>	Shaggy Cave Snail	SR
	<i>Cyprogenia stegaria</i>	Eastern Fanshell Pearlymussel	SE
	<i>Epioblasma obliquata perobliqua</i>	White Cat's Paw Pearlymussel	SE
	<i>Epioblasma torulosa rangiana</i>	Northern Riffleshell	SE
	<i>Epioblasma torulosa torulosa</i>	Tubercled Blossom	SE
	<i>Epioblasma triquetra</i>	Snuffbox	SE
	<i>Fontigens cryptica</i>	Hidden Springs Snail	SE
	<i>Fusconaia subrotunda</i>	Longsolid	SE
	<i>Lampsilis abrupta</i>	Pink Mucket	SE
	<i>Plethobasus cicatricosus</i>	White Wartyback	SE
	<i>Plethobasus cooperianus</i>	Orangefoot Pimpleback	SE
	<i>Plethobasus cyphus</i>	Sheepnose	SE
	<i>Pleurobema clava</i>	Clubshell	SE
	<i>Pleurobema plenum</i>	Rough Pigtoe	SE
	<i>Pleurobema rubrum</i>	Pyramid Pigtoe	SE
	<i>Potamilus capax</i>	Fat Pocketbook	SE
	<i>Quadrula cylindrica cylindrica</i>	Rabbitsfoot	SE
	PLATYHEL-MINTHES	<i>Sphalloplana chandleri</i>	Chandler's Cave Flatworm

**VERTEBRATE ANI-**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STATUS</b>
AMPHIBIANS	<i>Cryptobranchus alleganiensis alleganiensis</i>	Eastern Hellbender	SE
	<i>Hemidactylium scutatum</i>	Four-toed Salamander	SE
	<i>Rana areolata circulosa</i>	Northern Crawfish Frog	SE
BIRDS	<i>Ammodramus henslowii</i>	Henslow's Sparrow	SE
	<i>Bartramia longicauda</i>	Upland Sandpiper	SE
	<i>Botaurus lentiginosus</i>	American Bittern	SE
	<i>Chlidonias niger</i>	Black Tern	SE
	<i>Circus cyaneus</i>	Northern Harrier	SE
	<i>Cistothorus palustris</i>	Marsh Wren	SE
	<i>Cistothorus platensis</i>	Sedge Wren	SE
	<i>Dendroica cerulea</i>	Cerulean Warbler	SE
	<i>Gallinula chloropus</i>	Common Moorhen	SE
	<i>Haliaeetus leucocephalus</i>	Bald Eagle	SE
	<i>Ixobrychus exilis</i>	Least Bittern	SE
	<i>Lanius ludovicianus</i>	Loggerhead Shrike	SE
	<i>Nyctanassa violacea</i>	Yellow-crowned Night-heron	SE
	<i>Nycticorax nycticorax</i>	Black-crowned Night-heron	SE
	<i>Rallus elegans</i>	King Rail	SE
	<i>Rallus limicola</i>	Virginia Rail	SE

**IVERTEBRATE ANI-**

	<b>SCIENTIFIC NAME</b>	<b>COMMON NAME</b>	<b>STATE PROTECTION STA-TUS</b>
FISH	<i>Acipenser fulvescens</i>	Lake Sturgeon	SE
	<i>Amblyopsis spelaea</i>	Northern Cavefish	SE
	<i>Clinostomus elongatus</i>	Redside Dace	SE
	<i>Etheostoma variatum</i>	Variegated Darter	SE
	<i>Moxostoma valenciennesi</i>	Greater Redhorse	SE
	<i>Percina evides</i>	Gilt Darter	SE
MAMMALS	<i>Myotis grisescens</i>	Gray Bat	SE
	<i>Myotis sodalis</i>	Indiana Bat or Social Myotis	SE
	<i>Neotoma magister</i>	Eastern Woodrat	SE
	<i>Nycticeius humeralis</i>	Evening Bat	SE
	<i>Spermophilus franklinii</i>	Franklin's Ground Squirrel	SE
	<i>Sylvilagus aquaticus</i>	Swamp Rabbit	SE
REPTILES	<i>Clemmys guttata</i>	Spotted Turtle	SE
	<i>Clonophis kirtlandii</i>	Kirtland's Snake	SE
	<i>Crotalus horridus</i>	Timber Rattlesnake	SE
	<i>Emydoidea blandingii</i>	Blanding's Turtle	SE
	<i>Liochlorophis vernalis</i>	Smooth Green Snake	SE
	<i>Nerodia erythrogaster neglecta</i>	Copperbelly Water Snake	SE
	<i>Pseudemys concinna concinna</i>	Eastern River Cooter	SE
	<i>Sistrurus catenatus catenatus</i>	Eastern Massasauga	SE
	<i>Terrapene ornata ornata</i>	Ornate Box Turtle	SE
	<i>Thamnophis butleri</i>	Butler's Garter Snake	SE

## High Quality Natural Communities

Below is a list high quality natural communities or based on Natural Heritage Database records.

**HIGH QUALITY NATURAL COMMUNITIES**

Limestone Glade	Pond	Dry-mesic Sand Savanna
Siltstone Glade	Dry-mesic Prairie	Marl Beach
Sand Barrens	Mesic Prairie	Acid Bog
Bluegrass Till Plain Flatwoods	Dry Sand Prairie	Circumneutral Bog
Boreal Flatwoods	Dry-mesic Sand Prairie	Fen
Central Till Plain Flatwoods	Mesic Sand Prairie	Forested Fen
Dry Flatwoods	Wet Sand Prairie	Muck Flat
Sand Flatwoods	Wet-mesic Sand Prairie	Sand Flat
Mesic Southwestern Lowland Flatwoods	Terrestrial Cave	Marsh
Mesic Floodplain Forest	Eroding Cliff	Sedge Meadow
Wet Floodplain Forest	Limestone Cliff	Acid Seep
Wet-mesic Floodplain Forest	Sandstone Overhang	Circumneutral Seep
Dry Upland Forest	Sandstone Cliff	Forested Swamp
Dry-mesic Upland Forest	Gravel Wash	Shrub Swamp
Mesic Upland Forest	Inland Coastal Plain Marsh	Sinkhole Swamp
Lake	Dry Sand Savanna	

## Best Management Practices (BMP) Monitoring

Best management practices are techniques to protect water quality while conducting forest management activities. Example of forestry related BMPs include installing erosion control structures, minimizing stream crossings, and proper disposal of waste products. Each year since 2009 the Division of Forestry reviews use of BMPs on 10% of Classified Forests that reported having a timber harvest. The charts below also include monitoring done in 1996, 1997, 1999. The full BMP audit report is available on the Division of Forestry website at <http://www.in.gov/dnr/forestry/7536.htm>.

