

Indiana Statewide Forest Assessment & Strategy



John Seifert
Indiana DNR
Division of Forestry

Why do the Assessment and Strategy

For all the obvious natural resource issues and statewide planning reasons but also there is a fiscal reason.

Forest Service Advice to States 2011-2020

- \$15.7 million in total distributed to Indiana over the 10 yr. period
- 25% to third party partners
- 75% to state.



DIVISION OF
FORESTRY

NORTHEASTERN AREA
Indiana

STATE AND PRIVATE FORESTRY
Distribution of FY19 Program Budget to Partners

9/30/2019

Cooperative Programs	Grant No	Project name	Total Amount to State	Total Amount to Third Party	State Funding Total
Coop Fire	19-DG-244	BRFFMC-Compact Core Funding-Fire Support	\$ -	\$ 50,000	\$ 50,000
	19-DG-244	BRFFMC-IA/IL/IN/MO Transfer-Compact Training Support	\$ -	\$ 20,000	\$ 20,000
	19-DG-244	BRFFMC-IL/IN/MO Transfer-Fire Support	\$ -	\$ 114,000	\$ 114,000
	19-DG-244	BRFFMC-IA FEPP/FFP Programs-Fire Support	\$ -	\$ 80,000	\$ 80,000
	19-DG-233	IN-Core Funding-Coop Fire	\$ 220,928	\$ -	\$ 220,928
	19-DG-231	IN-Core Funding-Volunteer Fire Assistance	\$ 332,918	\$ -	\$ 332,918
Coop Fire Total			\$ 553,846	\$ 264,000	\$ 817,846
Coop Forestry	19-DG-233	IN-Core Funding-Forest Stewardship Program	\$ 188,200	\$ -	\$ 188,200
	19-DG-233	IN-Core Funding-Urban & Community Forestry	\$ 235,600	\$ -	\$ 235,600
	19-DG-233	IN-EAB Restoration Demonstration Project-Urban & Community Forestry	\$ 50,000	\$ -	\$ 50,000
	19-DG-230	IN-Core Funding-LGCY Admin	\$ 5,000	\$ -	\$ 5,000
Coop Forestry Total			\$ 478,800	\$ -	\$ 478,800
Forest Health Management	19-DG-085	Purdue-EAB-University National Webinar Series	\$ -	\$ 65,000	\$ 65,000
	19-DG-232	IN DNR-Walnut Twig Beetle/TCD-Trapping and Evaluations	\$ 7,500	\$ -	\$ 7,500
	19-DG-233	IN-Core Funding-CFHP	\$ 62,000	\$ -	\$ 62,000
	19-DG-233	IN-Core Funding-FHM - CPG	\$ 28,000	\$ -	\$ 28,000
	19-DG-305	IN DNR-Gypsy Moth-Eradication	\$ 35,000	\$ -	\$ 35,000
Forest Health Management Total			\$ 132,500	\$ 65,000	\$ 197,500
Great Lakes Restoration Initiative	19-DG-021	Save Maumee Grassroots Organization, Inc-GLRI-Reduce Runoff	\$ -	\$ 99,358	\$ 99,358
	19-DG-020	Northwestern Indiana Regional Planning Commission-GLRI-Mitigate EAB	\$ -	\$ 100,000	\$ 100,000
	19-DG-010	Wildlife Habitat Council-GLRI-Reduce Runoff	\$ -	\$ 99,979	\$ 99,979
Great Lakes Restoration Initiative Total			\$ -	\$ 299,337	\$ 299,337
Grand Total			\$ 1,165,146	\$ 628,337	\$ 1,793,483

Private Lands Program Funding

- State funds (general fund and dedicated fund)
- Federal Funding
 - USFS – Stewardship
 - USFS (pass through from FSA)– Conservation Reserve Program
 - USDA –NRCS Regional Conservation Partnership Program (RCPP) – Southern Indiana Young Forest Initiative
 - USDA – NRCS – Contribution Agreement

USFS: US Forest Service
FSA: Farm Services Agency

USDA: US Department of Agriculture
NRCS: Natural Resources Conservation Service

Stewardship Grant

- 2019 Grant \$188,000
- 50/50 Grant – requires equal amount in State \$\$ as match
- Funds currently used for district forester time to meet with landowners, stewardship plan development, education materials, intermittent employees
- Upcoming change: States will need to set priority areas which must be less than 50% of the lands eligible for stewardship. Grant dollars will only be allowed to be used in those areas. Currently only northern district foresters code time to grant. Considering making same area the priority area to make grant accomplishment reporting easier. Division of Forestry will still provide service to rest of state

Fire Grants

- 2019 State Fire Assistance \$220,928
 - This money is used to purchase firefighter equipment
 - Grant is also used to train resources (545 trained last year)
 - 50/50 grant match with private dollars
- 2019 Volunteer Fire Assistance \$332,918
 - Money is allocated to fire departments
 - Grants up to \$5000 (71 departments awarded)
 - For fire fighting equipment only
 - 50/50 grant match with private dollars

Community & Urban Forestry Grant

- **2019 Grant \$285,600** (*Includes \$50,000 USFS Ash Removal Pilot Project NW Indiana*)
- 50/50 Grant requires equal amount in State match (cash or in-kind).
 - Sub grant match makes up the primary source of match for this funding
- **Staff and Fringe: \$91,000**
 - Program Coordinator (FTE), Outreach coordinator, (FTE), Grants Administrator (Int.)
 - Technical assistance to communities, project coordination, grants administration, Indiana Community Tree Steward trainings, presentations to professional and stakeholder groups.
- **Sub Grants to communities: ≥ \$181,000** (*Average 8-12 recipients annually*)
 - Inventories, Urban Tree Canopy Assessment, Management Plans, Ordinance Development, Tree Planting on Public Property, Education and Outreach Activities.
- **Program Execution \$12,800**
 - Program education/outreach materials, travel expenses, conference attendance, and training supplies.

Conservation Reserve Program (CRP)

- Current grant \$93,000
- 100/0 Grant – does not require any state \$ match
- Funds used for district foresters to provide technical support of CRP – meeting with landowner, writing practice plans, checking out practices when completed
- Division of Forestry has difficulty reporting enough hours to use all the grant \$ in a timely manner.

NRCS Funding

- RCPP – Southern Indiana Young Forest Initiative
 - 2019 - \$30,000 coded to grant by staff
 - Reimburses for district forester time to meet with landowners, write plans for openings or plantings, and check completed practices.
- Contribution Agreement
 - \$200,000 per year for 4 years
 - 50/50
 - Reimburses the Division of Forestry for technical support provided for EQIP and CSP

NRCS will be using Forest Action Plan Priority Areas as part of their project ranking for EQIP.



DIVISION OF
FORESTRY

Private Lands Stewardship Plans

State	2019 Stewardship		2018 Stewardship		2017 Stewardship		2016 Stewardship		2015 Stewardship		2014 Stewardship		2013 Stewardship		2012 Stewardship	
	Acres	Plans	Acres	Plans	Acres	Plans	Acres	Plans	Acres	Plans	Acres	Plans	Acres	Plans	Acres	Plans
Connecticut	2,404	31	2,010	28	4,498	40	5,099	48	10,845	29	16,548	100	27,705	158	4,978	26
Delaware	1,508	16	2,293	15	1,645	21	1,997	16	1,810	20	1,199	13	1,775	34	4,656	50
Illinois	31,919	588	20,692	428	21,635	627	11,683	241	26,811	555	62,701	389	34,074	570	35,262	556
Indiana	108,858	2,374	109,756	2,932	149,231	3,284	135,501	3,038	147,802	3,134	42,248	858	161,344	3,365	129,712	2,816
Iowa	12,114	296	12,591	250	17,683	344	15,940	407	25,581	544	27,457	336	23,850	555	33,943	536
Maine	15,504	137	26,092	201	39,255	194	27,095	181	11,089	144	12,965	124	9,301	88	7,261	50
Maryland	17,790	254	26,901	370	28,660	412	28,117	362	23,904	297	18,251	266	19,585	292	20,140	392
Massachusetts	18,363	240	24,740	224	25,323	243	17,258	162	13,771	201	23,417	245	29,991	290	30,626	283
Michigan	69,053	359	60,965	256	46,009	256	45,999	296	52,112	271	56,463	265	33,224	223	31,722	184
Minnesota	135,809	902	100,163	692	80,562	605	47,180	353	53,813	328	41,653	288	44,796	350	54,917	452
Missouri	22,614	104	44,001	116	22,367	103	33,366	155	28,482	134	17,167	101	37,032	126	30,840	102
New Hampshire	4,896	34	8,195	43	10,713	66	60,922	121	13,183	71	56,149	98	22,169	113	13,514	89
New Jersey	11,517	186	9,280	117	9,520	196	13,930	217	32,570	310	15,552	302	16,841	199	20,149	310
New York	68,244	299	45,341	277	46,768	316	65,135	439	49,934	389	57,739	351	61,376	375	77,246	642
Ohio	18,389	212	27,603	393	32,196	434	27,572	352	29,003	396	22,932	334	38,503	462	22,422	524
Pennsylvania	3,431	15	12,944	45	4,280	28	23,551	94	17,367	69	8,525	72	13,659	68	4,311	41
Rhode Island	2,808	55	4,079	29	3,399	57	2,186	45	1,832	45	3,537	60	1,503	35	735	14
Vermont	14,237	204	40,551	134	20,799	143	15,620	73	14,334	71	24,516	142	183,600	3,111	10,444	286
West Virginia	7,907	51	9,782	112	7,717	59	12,673	60	11,082	86	11,682	105	10,417	79	16,744	102
Wisconsin	117,728	2,000	109,558	1,712	97,862	1,677	102,250	1,689	138,153	1,542	133,507	2,169	136,972	2,821	134,638	2,202
Grand Total	685,093	8,357	697,537	8,374	670,122	9,105	693,074	8,349	703,478	8,636	654,208	6,618	907,717	13,314	684,260	9,657

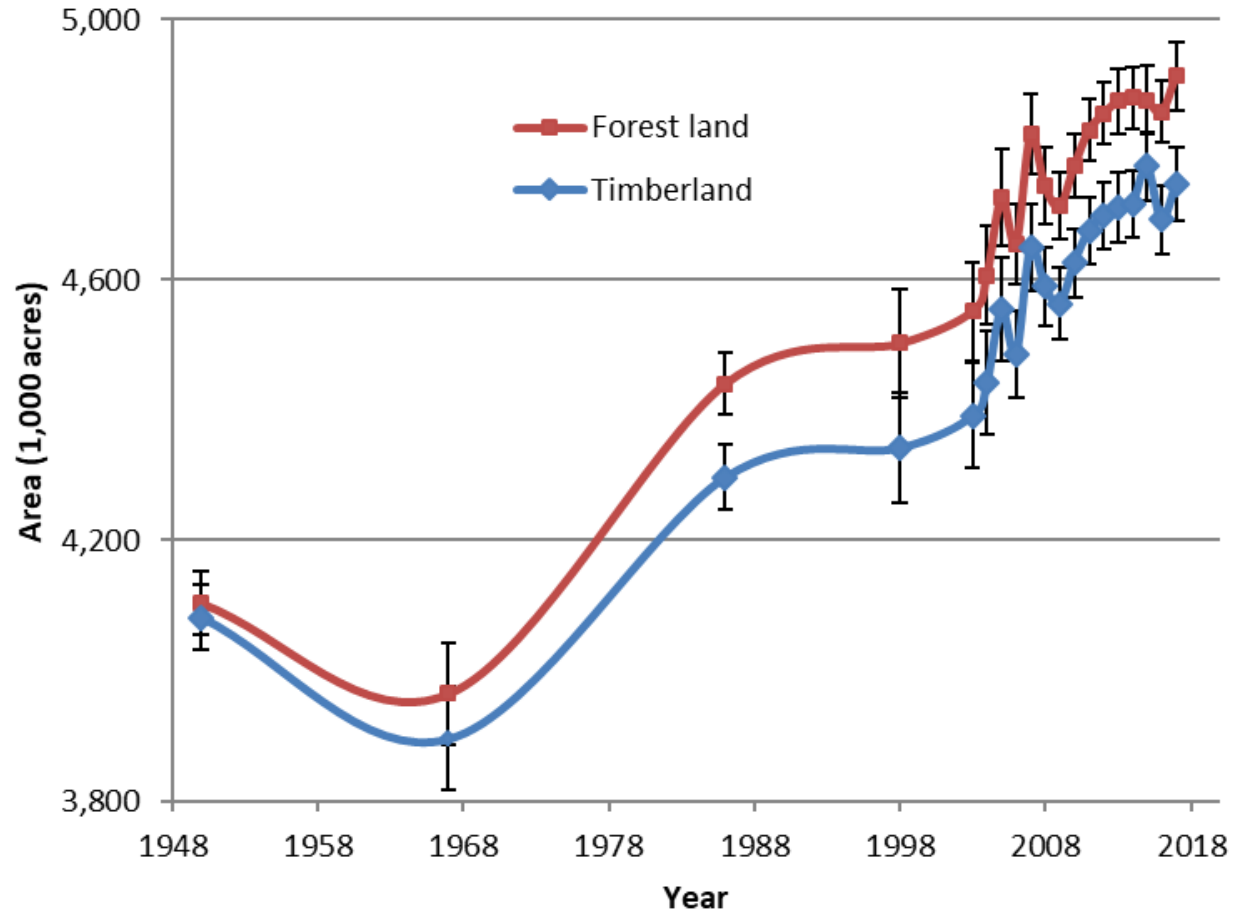


Table 1.—Forest land area in Indiana, 1800-2008.

Year	Hectares	Acres
1800	7,891,650	19,500,000
1860	4,047,000	10,000,000
1900	607,050	1,500,000
1950	1,675,458	4,140,000
1967	1,604,352	3,964,300
1986	1,796,544	4,439,200
1998	1,821,676	4,501,300
2008	1,932,523	4,775,200

Source: IDNR, Division of
Forestry

Figure 3. Area of forestland and timberland in Indiana by inventory year. Error bars represent 1 standard error or a 68-percent confidence interval.

Source: IN Hardwood
Strategy

Indiana Future Forest Attributes

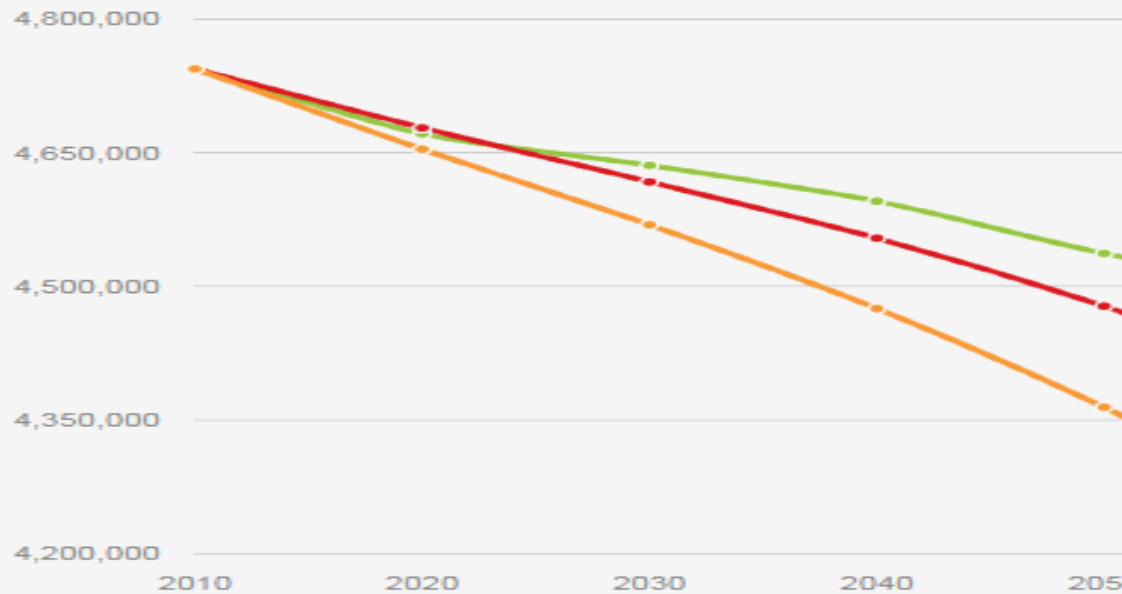
Attribute

Area of forest land

Area of forest land in Indiana

Chart

Data



Legend

A1B-C		A1B-BIO	
A2-C		A2-BIO	
B2-C		B2-BIO	

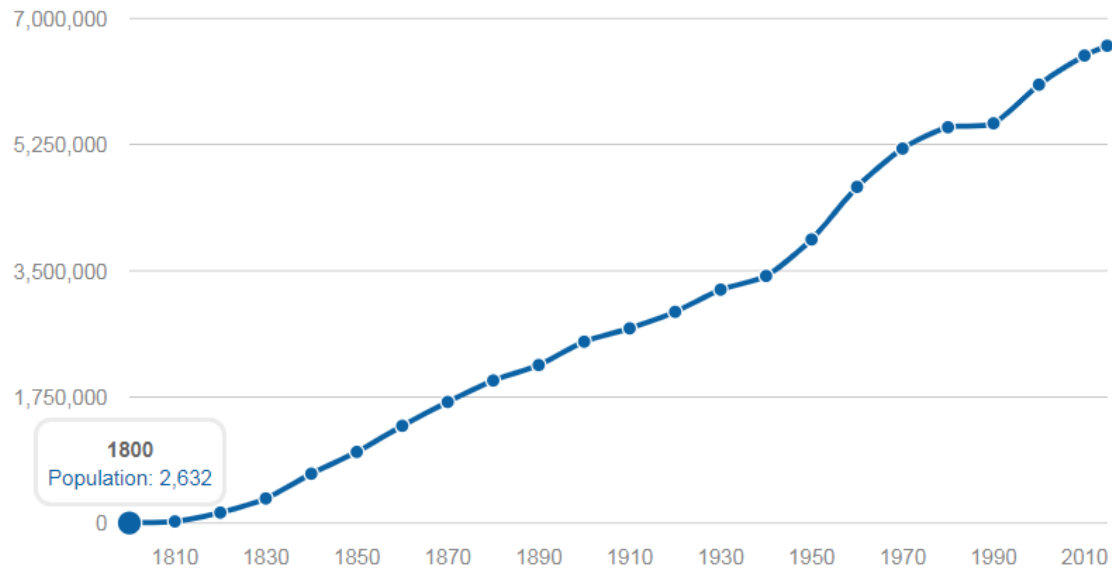


<https://www.nrs.fs.fed.us/futures/projections/state/?state=IN>

INDIANA

Historical population

Historical population of Indiana state for period 1800-2015



Indiana				
Year	Human Population (millions)	Total acres/person	Forest acres	Forest acres/person
1800	0.053	438.6	19,500,000	366.9
1860	1.350	17.3	10,000,000	7.4
1900	2.516	9.3	1,500,000	0.6
1950	3.943	5.9	4,140,000	1.0
1970	5.195	4.5	4,000,000	0.8
2015	6.620	3.5	4,900,000	0.7
2018	6.692	3.5	4,900,000	0.7
2060	8.147	2.9	4,234,807	0.5

Sources: Census Bureau, IDNR,
Northern Forest Futures Project

Climate mitigation potential in 2025 (Tg CO₂e year⁻¹)

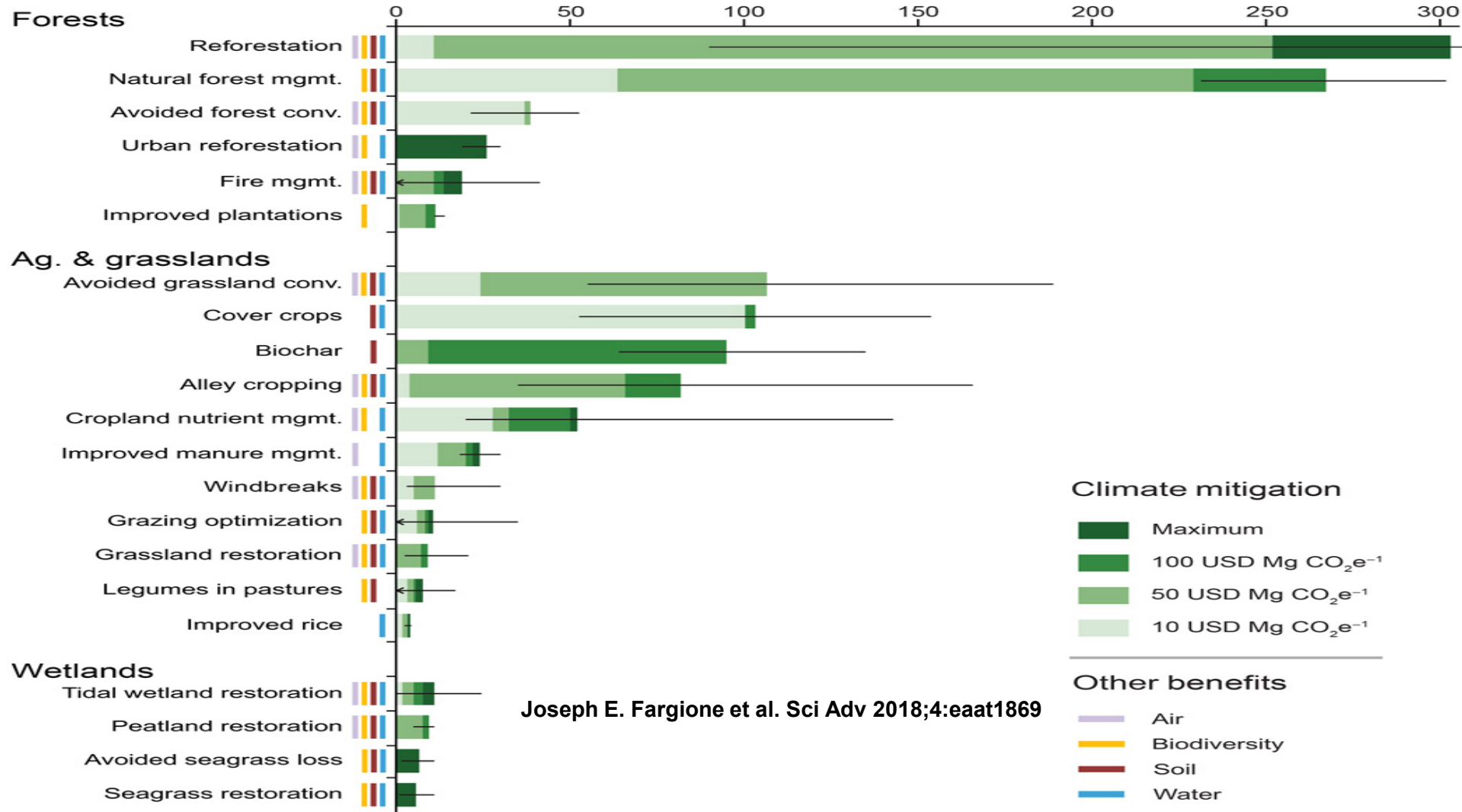
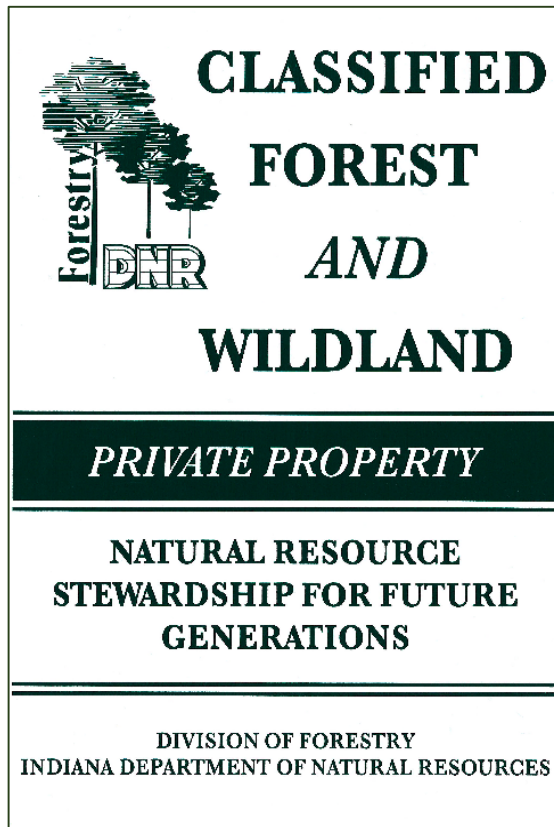


Fig. 1 Climate mitigation potential of 21 NCS in the United States.

Copyright © 2018 The Authors, some rights reserved; exclusive licensee American Association for the Advancement of Science. No claim to original U.S. Government Works. Distributed under a Creative Commons Attribution License 4.0 (CC BY).

Joseph E. Fargione et al. Sci Adv 2018;4:eaat1869

Classified Forest & Wildlands Program



Program authorized March 10, 1921.

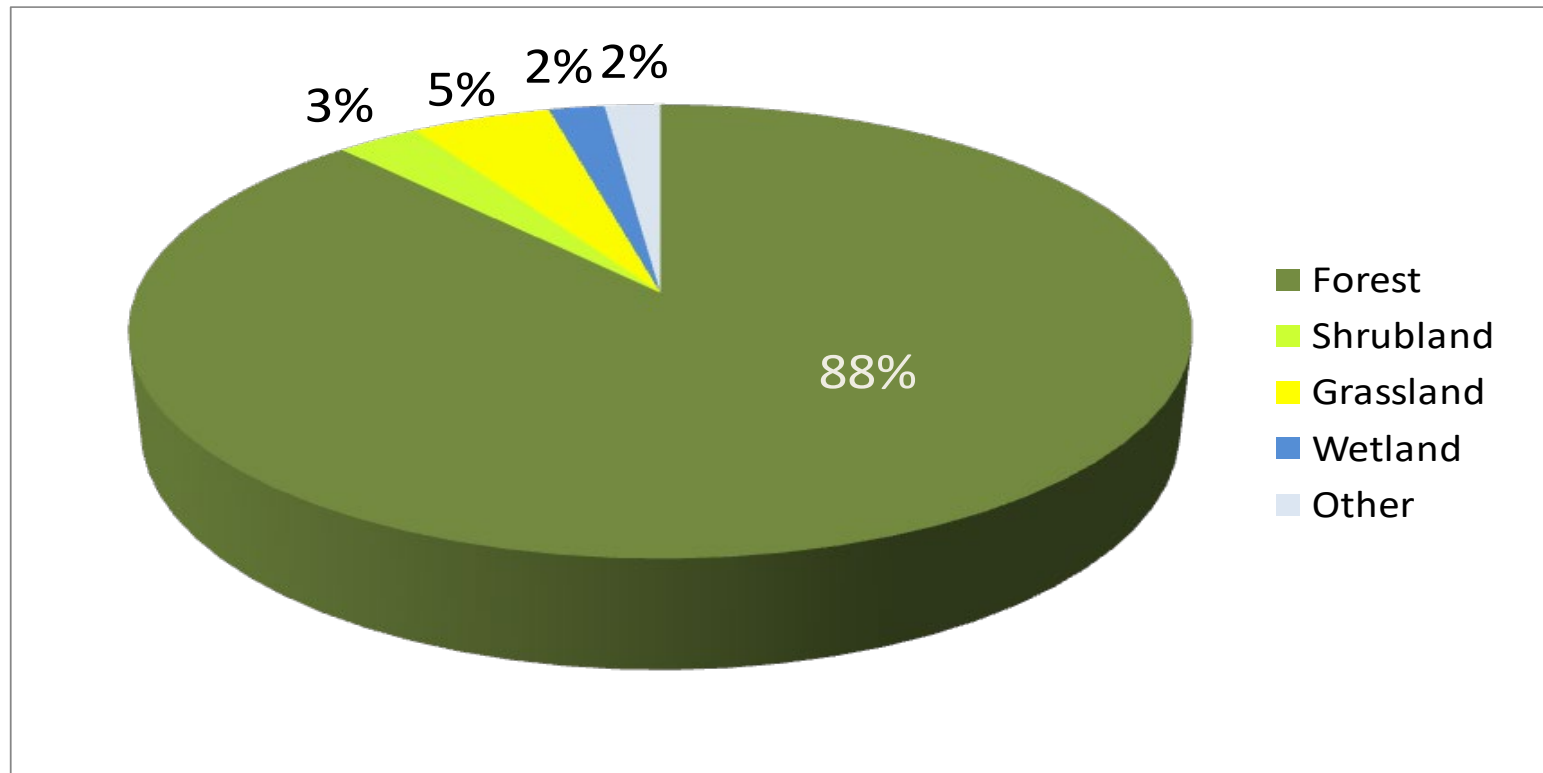
Purpose: To encourage timber production, wildlife habitat, and protect water quality on private lands.

Landowner incentive: Property tax reduction

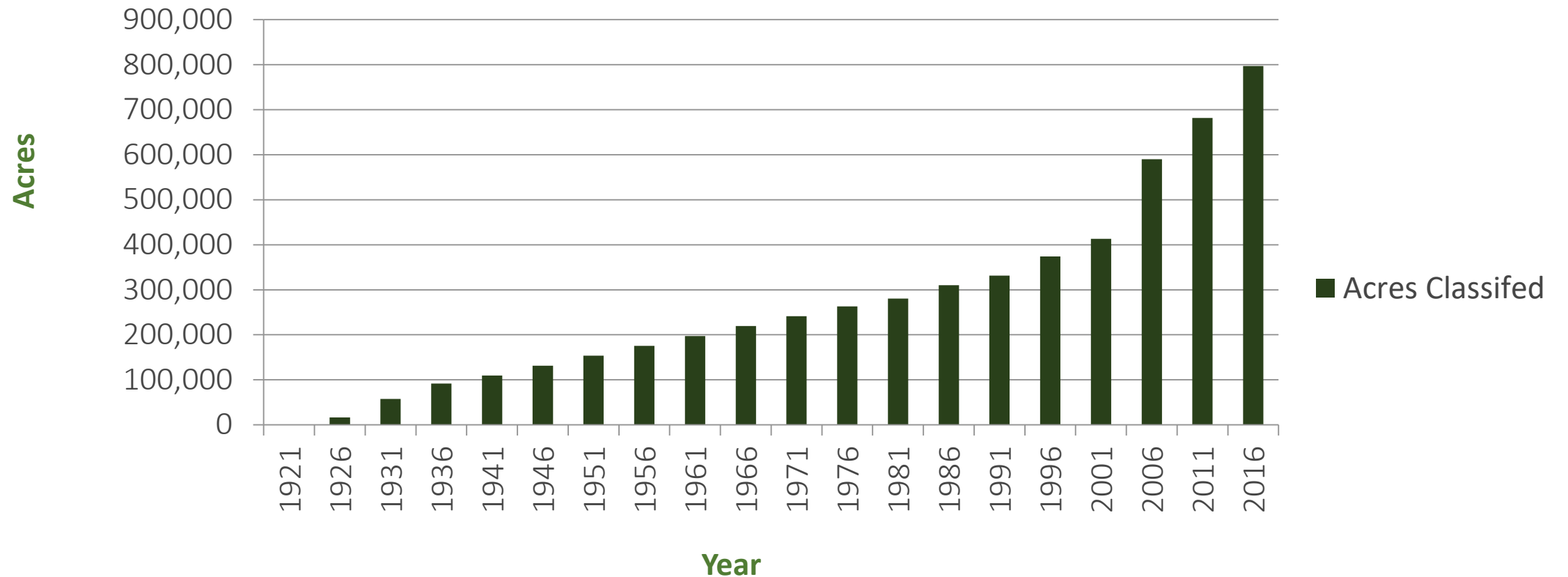
Current enrollment:
823,217 Acres; 16,766 tracts

3-10-2021 100 years old!

Enrolled Land by Habitat



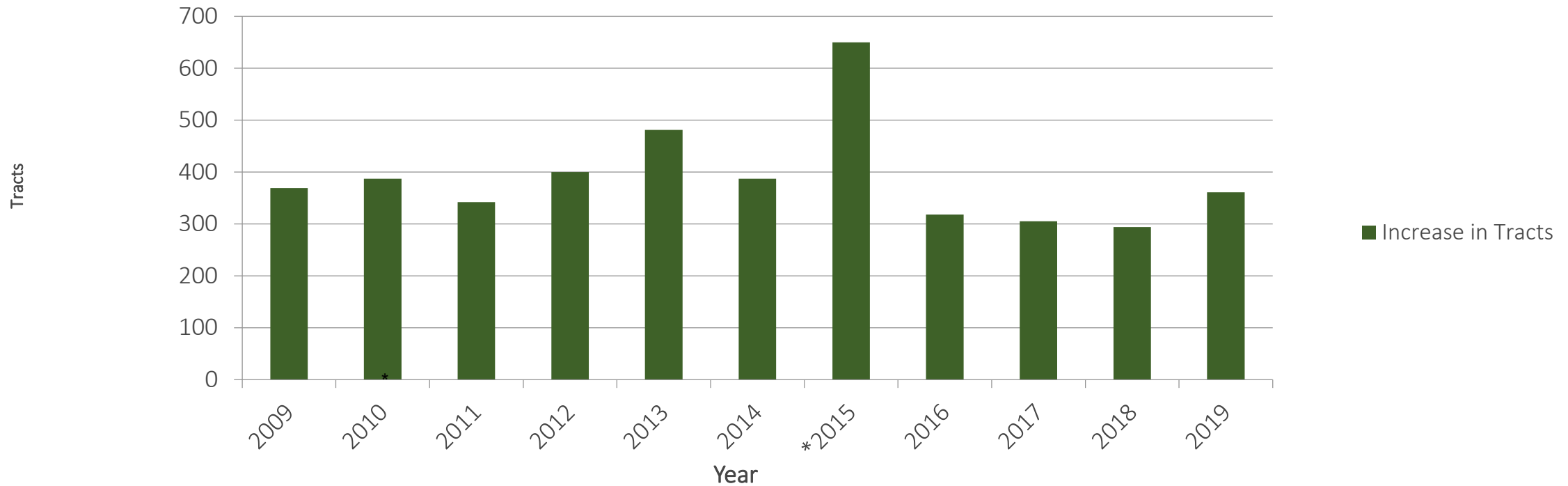
Classified Program Growth



Classified Forest & Wildlands Program
PROGRAM STATS

834,585 Acres **17,014** Tracts **12,336** Landowners

Tracts Increase by Year Classified Forest & Wildlands Program



* 2015 had two enrollment periods due to change in assessment date from March 1 to January 1.

Assessment of Woodlands

Residential, Agricultural, & Classified Forest & Wildlands

Ima Buyer just purchased 20 acres of woodland in County Q. How her land will be assessed for property taxes depends on how Ima decides to use the land: residential or agricultural. Ima also can enroll her woodland in the Classified Forest & Wildlands Program which provides a property tax incentive in return for managing her property for forest products, wildlife, and water quality.

Ima would like to someday build a weekend cabin on the property, but for now she is going to use the property for hunting and hiking.

Ima purchased the property to grow timber. She hired a professional forester to help her develop a forest management plan and is preparing to implement the plan. She will also use the property to hunt and hike.

Ima is committed to keeping her woodland as a forest. She has no plans to build a house on the property, graze livestock, or grow crops. She plans to use the woods to grow timber, hunt, and hike. Ima has contacted her district forester and is working with him to develop a stewardship plan and enroll her land in the Classified Forest & Wildlands Program.

Residential Assessment

County Q assesses excess residential acres at \$5,000 per acre based on similar sales in the area of Ima's property.

$(20 \times \$5,000)$	=	\$100,000
20 Excess Acre Assessment		Total Assessed Value

Agricultural Forest Assessment

Agricultural forest assessments are determined by multiplying the agricultural base rate (\$1,280 acre for 2020) by the soil productivity factor (Ima's soil is 0.9). This amount is then reduced by woodland influence factor of 0.8.

20	x	\$1,280	x	0.9	=	\$23,040
Acres		Ag. Base Rate		Productivity factor		Extended Value
\$23,040	-	(\$23,040 x 0.8)	=	\$4,608		
Extended Value		Woodland Influence Factor Deduction		Assessed Value		

Classified Forest & Wildlands (CFW) Program

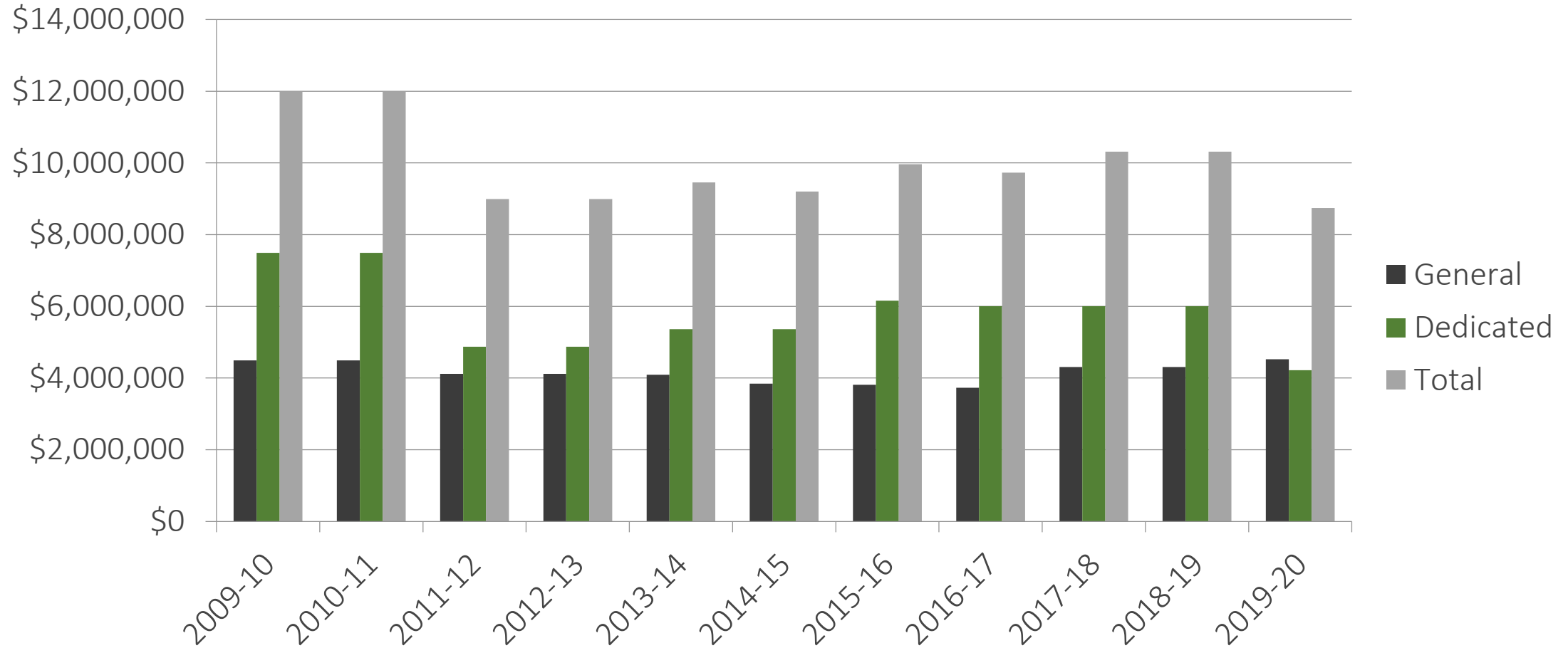
The Classified Forest & Wildlands Program reduces the assessed rate of enrolled lands to \$14.11/acre for 2020.

20	x	\$14.11	=	\$282.20
Acres		CFW rate		Assessed Value

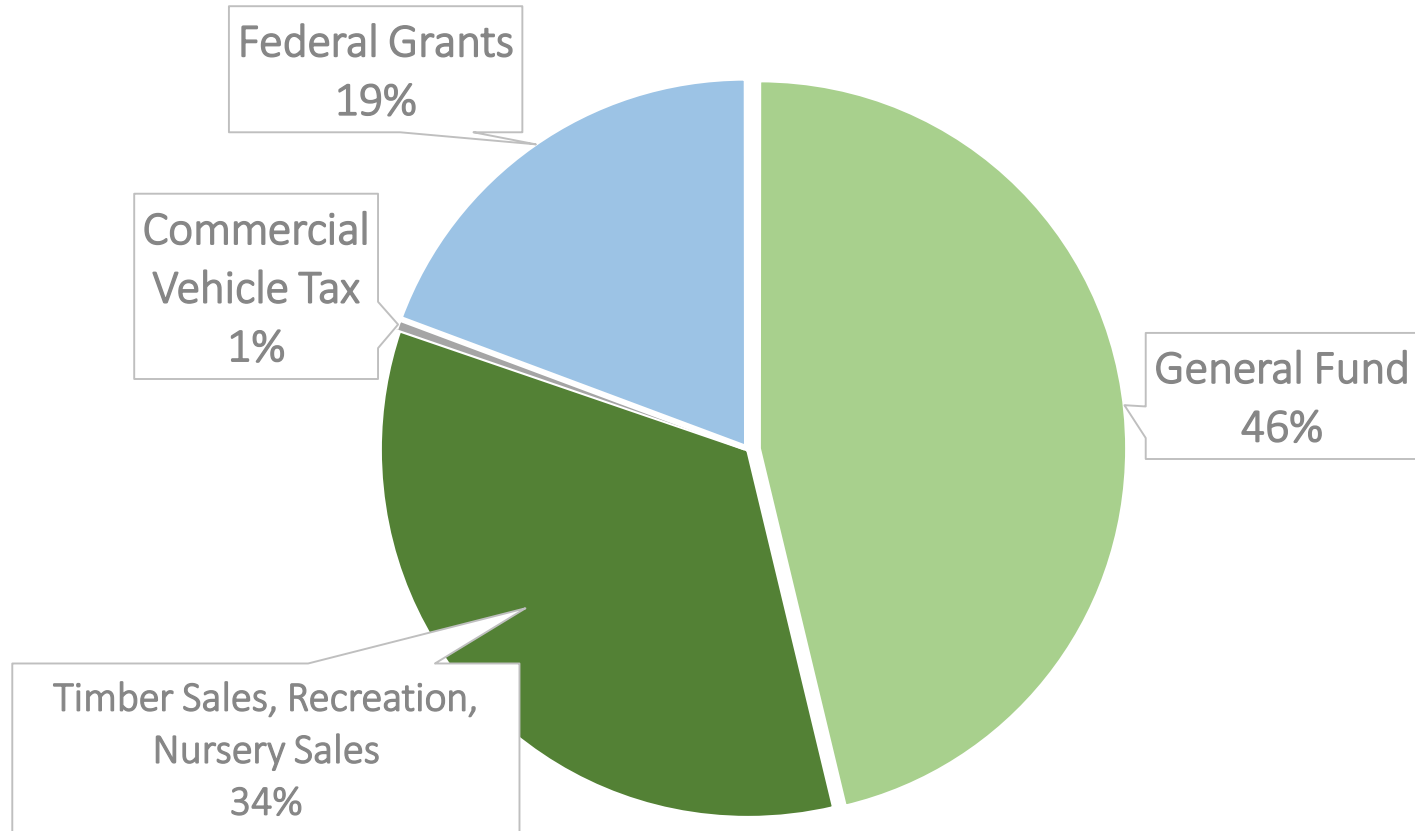
District Workload: Classified Tracts



Annual Budget



Forestry Division Funding FY 19



- Open Houses on all major properties February 26 & 27, this will begin the planning process
- Input from these meetings will help draft the next 5 year plan
- Old plan will be amended with this constituent input
- First draft available for public comment June 2020
- Final draft pending Executive Office approval summer 2020

- How to help forests positively impact carbon storage?
- Is there a need for more recreational opportunities on State Forests?
- Maintaining oak forests
- Invasive species
- T&E species and forest management – (public and private)
- More State Forest land for ecological needs
- Better communications on DoF's mission and activities

- Should we use more fire on the landscape?
- Tree planting increase(?)
- Overwhelming private lands requests for services
- Do we need a new 21 century private lands program (Classified Forest)
- How to increase urban tree canopy
- Indiana funded cost-share program (invasive, forest management, etc.)
- More self funding through access and service fees