

NRSEFIA RMT

FIA Budget Situation

FIA	Funding Source	FY10 (mm \$)	FY11 (mm \$)	FY12 (mm \$)	FY13 (mm \$)	FY14 (mm \$)	FY15 PP (mm \$)	FY15 Senate (mm \$)	FY15 House (mm \$)	FY15 CR – 0.5% (mm \$)
National	R&D	66.9	66.8	64.2	60.9	66.8	~66.8	~66.8	~70.0	~66.5
	S&PF	4.9	4.6	4.3	3.7	0.0	~0.0	~0.0	~0.0	~0.0
	Total	71.8	71.5	68.6	64.6	66.8	~66.8	~66.8	~70.0	~66.5
NRS	R&D	16.6	15.9	15.5	14.6	15.5	~15.5	~15.5	~16.3	~15.4
	S&PF	0.6	1.2	1.1	1.0	0.0	~0.0	~0.0	~0.0	~0.0
	Total	17.3	17.1	16.7	15.6	15.5	~15.5	~15.5	~16.3	~15.4

FY15 Looking FLAT

FIA Strategic Plan

Making its way to Congress!

FIA Strategic Plan

FOCUS:

Response to Farm Bill

1. Fully Annual (AK)
2. Urban
3. Carbon/Biomass
4. Reevaluate the Core
5. TPO
6. Cooperation/Support
7. Non-Federal Partnering (Analysis and IM)
8. Remote Sensing
9. Land-use Change
10. NWOS
11. Better estimates for smaller areas

On February 7, 2014, Congress passed the Agricultural Act of 2014 (Public Law 113-79), also referred to as the 2014 Farm Bill. Section 8301 of this legislation requires the Forest Inventory and Analysis Program to revise its previous Strategic Plan and submit the new plan to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate within 180 days of the passage of the law or before August 7, 2014.

AN ACT

To reauthorize agricultural programs through 2018.

113TH CONGRESS, 2nd SESSION (H.R. 2642)

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled,

SECTION 1. SHORT TITLE; TABLE OF CONTENTS.

(a) IN GENERAL.— SHORT TITLE.—This Act may be cited as the “Agricultural Act of 2014”.

SEC. 8301. REVISION OF STRATEGIC PLAN FOR FOREST INVENTORY AND ANALYSIS.

- (a) **REVISION REQUIRED.**—Not later than 180 days after the date of enactment of this Act, the Secretary shall revise the strategic plan for forest inventory and analysis initially prepared pursuant to section 3(e) of the Forest and Rangeland Renewable Resources Research Act of 1978 (16 U.S.C. 1642(e)) to address the requirements imposed by subsection (b).
- (b) **ELEMENTS OF REVISED STRATEGIC PLAN.**—In revising the strategic plan, the Secretary shall describe in detail the organization, procedures, and funding needed to achieve each of the following:
- (1) Complete the transition to a fully annualized forest inventory program and include inventory and analysis of interior Alaska.
 - (2) Implement an annualized inventory of trees in urban settings, including the status and trends of trees and forests, and assessments of their ecosystem services, values, health, and risk to pests and diseases.
 - (3) Report information on renewable biomass supplies and carbon stocks at the local, State, regional, and national level, including by ownership type.
 - (4) Engage State foresters and other users of information from the forest inventory and analysis in reevaluating the list of core data variables collected on forest inventory and analysis plots with an emphasis on demonstrated need.
 - (5) Improve the timeliness of the timber product output program and accessibility of the annualized information on that database.
 - (6) Foster greater cooperation among the forest inventory and analysis program, research station leaders, and State foresters and other users of information from the forest inventory and analysis.
 - (7) Promote availability of and access to non-Federal resources to improve information analysis and information management.
 - (8) Collaborate with the Natural Resources Conservation Service, National Aeronautics and Space Administration, National Oceanic and Atmospheric Administration, and United States Geological Survey to integrate remote sensing, spatial analysis techniques, and other new technologies in the forest inventory and analysis program.
 - (9) Understand and report on changes in land cover and use.
 - (10) Expand existing programs to promote sustainable forest stewardship through increased understanding, in partnership with other Federal agencies, of the over 10,000,000 family forest owners, their demographics, and the barriers to forest stewardship.
 - (11) Implement procedures to improve the statistical precision of estimates at the sub-State level.
- (c) **SUBMISSION OF REVISED STRATEGIC PLAN.**— The Secretary shall submit the revised strategic plan to the Committee on Agriculture of the House of Representatives and the Committee on Agriculture, Nutrition, and Forestry of the Senate.

FIA Strategic Plan

Farm Bill Funding Options

A: Status Quo

B: Recovery and Add Interior AK

C: Enhance and Expand the Core

D: Speed and Unify the Cycle

E: Enhance and Expand Partnerships

F: Leveraged Partner Intensifications

Prioritized 2014 Farm Bill -

Op-tion	FB ref.	Category	Annual	Cumu-lative
			<i>Million \$</i>	
A	1	FY 2014 funding providing 10% reduced field level for 49 states and coastal Alaska plus basic products, ownership and remote sensing work.	66.8	66.8
B	1	Funding to bring program back to full operations excluding interior Alaska. <i>(Return to FY 2011 funding)</i>	5.5	72.3
B	1	Implement pre-Farm Bill full base target of 15% of plots East and 10% West annually, interior Alaska and improve base analytical and research capacity to support this cycle. <i>(previous plan target)</i>	5.5	77.8
C	5	Enhanced timber products monitoring	1.0	78.8
C	3	Improved Carbon/biomass estimates	2.5	81.3
C	10	Enhanced owner study	0.5	81.8
C	9	Land cover/land use change research	1.0	82.8
C	2	Urban inventory	3.4	86.2
D	1	Increment to implement 20% of all plots in each state annually	13.0	99.2
E	8	Promote other agency collaboration	1.0	100.2
E	7	Engage non-federal IT resources	1.0	101.2
E	6	Analysis and cooperation	1.7	102.9
E	4	Core data evaluation	0.1	103.0
F	11	Partners can leverage the FIA program to increase sample size to improve small area estimation for local planning. The Lake States and several National Forests leverage FIA in this manner (currently over \$2 million annually). This is only 4-5 cents per forest acre to double the sample. The base program and infrastructure averages 13 cents per forest acre, thus a leverage factor of more than 2 to 1 for intensification. This option is at 90+% partner expense.	27.0	130.0

FIA Strategic Plan

Farm Bill Funding

FY16???

Prioritized 2014 Farm Bill -

Option	FB ref.	Category	Annual	Cumulative
<i>Million \$</i>				
A	1	FY 2014 funding providing 10% reduced field level for 49 states and coastal Alaska plus basic products, ownership and remote sensing work.	66.8	66.8
B	1	Funding to bring program back to full operations excluding interior Alaska. <i>(Return to FY 2011 funding)</i>	5.5	72.3
B	1	Implement pre-Farm Bill full base target of 15% of plots East and 10% West annually, interior Alaska and improve base analytical and research capacity to support this cycle. <i>(previous plan target)</i>	5.5	77.8
C	5	Enhanced timber products monitoring	1.0	78.8
C	3	Improved Carbon/biomass estimates	2.5	81.3
C	10	Enhanced owner study	0.5	81.8
C	9	Land cover/land use change research	1.0	82.8
C	2	Urban inventory	3.4	86.2
D	1	Increment to implement 20% of all plots in each state annually	13.0	99.2
E	8	Promote other agency collaboration	1.0	100.2
E	7	Engage non-federal IT resources	1.0	101.2
E	6	Analysis and cooperation	1.7	102.9
E	4	Core data evaluation	0.1	103.0
F	11	Partners can leverage the FIA program to increase sample size to improve small area estimation for local planning. The Lake States and several National Forests leverage FIA in this manner (currently over \$2 million annually). This is only 4-5 cents per forest acre to double the sample. The base program and infrastructure averages 13 cents per forest acre, thus a leverage factor of more than 2 to 1 for intensification. This option is at 90+% partner expense.	27.0	130.0

Future Reporting

GTR-NRS-82

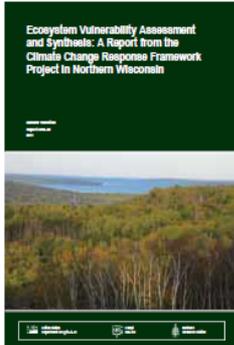
Editing: \$3,000

Layout: \$6,001

Printing: \$5,772

148 pgs, 1,000 copies

Reprint 300 copies: \$3,093



RB-NRS-66

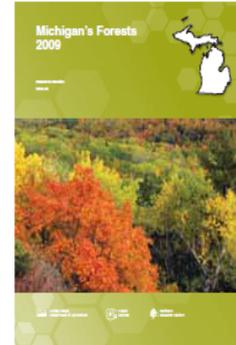
Typical costs of an FIA 5-year report

Editing in house, 80 hours, GS-12: \$4,400

Layout: \$27,000 - \$31,000

Printing: \$10,124

~75 pgs, 750 copies with CD



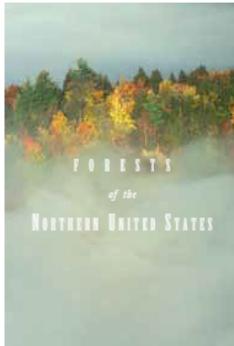
GTR-NRS-90

Editing: \$4,800

Layout: \$32,658

Printing \$16,334

218 pgs, 2,100 copies



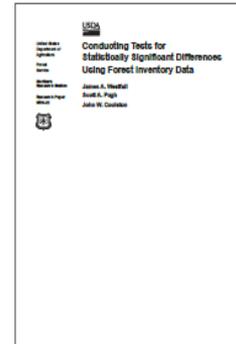
RP-NRS-22

Editing: \$350

Layout: \$486

Printing: \$0 (published online only)

10 pgs



GTR-NRS-P-117 CHFC

Editing: \$7,921

1/3 done in-house; 2/3 contractors

Layout in house, 130 hours, GS-9: \$4,875

Printing: \$576

531 pgs, 850 copies of CD



Publications -- < \$\$\$

• National templates

- < layout \$\$\$

• Printing costs

- Page limits
- Copy limits

• Fewer Pubs

- Sub-regional reports
 - Southern New England
 - Plains States
 - NH/VT

• Push to Digital

- Business Analytics
- ESRI Story Maps
- Minimize Hardcopy

Future Reporting

Less paper; More technology

- » http://www.nrs.fs.fed.us/futures/dashboard/?state=MI&var=NO_TREES
- » <http://www.texasforestinfo.com/>
- » <http://www.chicagobusiness.com/article/20101208/PAGES/312089998>
- » http://www.asla.org/sustainablelandscapes/Vid_UrbanForests.html

USDA Forest Service, US Department of Agriculture Northern Research Station

Iowa's Forest Resources, 2011

This publication provides an overview of forest resource attributes for Iowa based on an annual inventory (2007-2011) conducted by the Forest Inventory and Analysis (FIA) program of the U.S. Forest Service, Northern Research Station. These estimates, along with web-pooled core tables, are updated annually. For more information please refer to page 4 of this report.

Table 1—Annual estimates, sampling errors, and change, Iowa, 2007-2011.

	Estimate	Sampling error (%)	Change since 2005 (%)
Area (1,000 acres)			
Number of live trees 1-inch diameter or larger (1,000,000 trees)	5,074	2.2	-2
Biomass of live trees 1-inch diameter or larger (1,000 tons)	1,103	3.8	-4.4
Net volume of live trees (1,000,000 ft ³)	120,430	3.3	0.6
Net volume of live trees (1,000,000 ft ³)	4,400	3.8	5.8
Annual net growth of live trees (1,000 ft ³ /year)	109,539	8.5	-38.0
Annual mortality of live trees (1,000 ft ³ /year)	71,309	9.0	82.5
Annual harvest removals of live trees (1,000 ft ³ /year)	25,227	18.5	4.5
Annual other removals of live trees (1,000 ft ³ /year)	19,804	20.3	30.4
Timberland (1,000 acres)			
Area (1,000 acres)	2,988	2.2	-4
Number of live trees 1-inch diameter or larger (1,000,000 trees)	1,202	3.8	-1
Biomass of live trees 1-inch diameter or larger (1,000 tons)	118,337	3.3	6.2
Net volume of live trees (1,000,000 ft ³)	4,365	3.9	5.5
Net volume of growing stock trees (1,000,000 ft ³)	3,105	4.6	8
Annual net growth of growing stock trees (1,000 ft ³ /year)	71,090	8.3	-41.0
Annual mortality of growing stock trees (1,000 ft ³ /year)	40,432	11.9	66.1
Annual harvest removals of growing stock trees (1,000 ft ³ /year)	22,429	22.0	34.0
Annual other removals of growing stock trees (1,000 ft ³ /year)	15,312	48.2	11.5

Note: Sampling errors and error bars shown in the tables and figures in this report represent 95% confidence intervals for the estimated values. Volumes are for 5-inch and larger diameter trees.

Figure 1—Area of timberland and forest land in Iowa by year.

Figure 2—Area of timberland by forest-type group and stand-size class, Iowa, 2007-2011.

Note: Forest type definitions have changed and may not be directly comparable with published estimates from previous years. Composition of forest-type groups varies geographically. In Iowa, Maple-beech-birch forest-type group is referred to as "Maple/birch" due to the absence of beech. Large diameter trees are at least 11.0 inches diameter for hardwoods and at least 9.0 inches diameter for softwoods. Medium diameter trees are at least 5.0 inches diameter but smaller than large diameter trees. Small diameter trees are less than 5.0 inches diameter. Additional details are available in USDA Forest Service (2007).

» Smart websites/tools/apps

Interpretive

Interactive

Topical

Spatial

Visual

Graphical

Contextual

Temporal

Dynamic

You'll See Examples Later

Future Reporting

Partnering

- Feds are sub-regional analytical leads

 - Focus on x-state issues

 - Fitting sub-region into broader context

 - Regional/national product line specialists

 - State-level analytical oversight

 - States are local analytical leads

 - Core FIA Reporting