

# U.S. Forest Service

#### **Summary for ERS Meeting**

Washington DC, October 2007



#### W. Brad Smith

Associate National Program Leader, FIA





#### **Ruben's Questions**

- 1) What is the coverage of your data set (types of land, etc.)?
- 2) What is the geographic level and scope of the data?
- 3) What year does the data represent (first year, most recent year)?
- 4) What is the source of the data (agency, vendor, etc.)?
- 5) How are the data collected and processed?
- 6) How often are the data updated and when is the next planned update?
- 7) Who may access the data? How are the data made available and in what format(s)?





# FIA legislative mandate

"make and keep current a comprehensive inventory and analysis of the present and prospective conditions and requirements of the renewable resources of the forest and rangelands of the United States"

- 1928 McSweeney/McNary Act

- Replaced by 1978 Forest & Rangeland Research Act



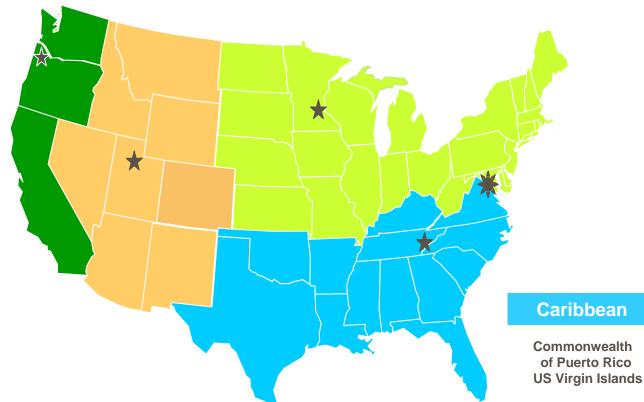
# FOREST SERVICE UAS MINISTER AGRICULT THE PROPERTY OF AGRICULT THE

#### **FIA Inventory Regions**



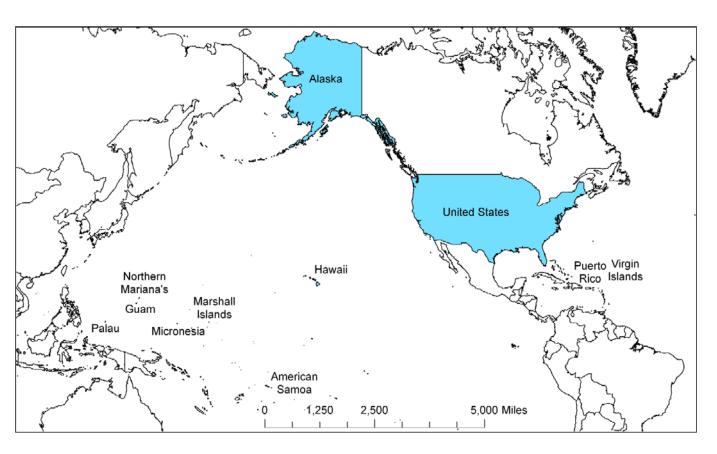
#### **Pacific**

Hawaii
American Samoa
Commonwealth
of the Northern
Mariana Islands
Federated States
of Micronesia
Guam
Republic of Palau
Republic of the
Marshall Islands













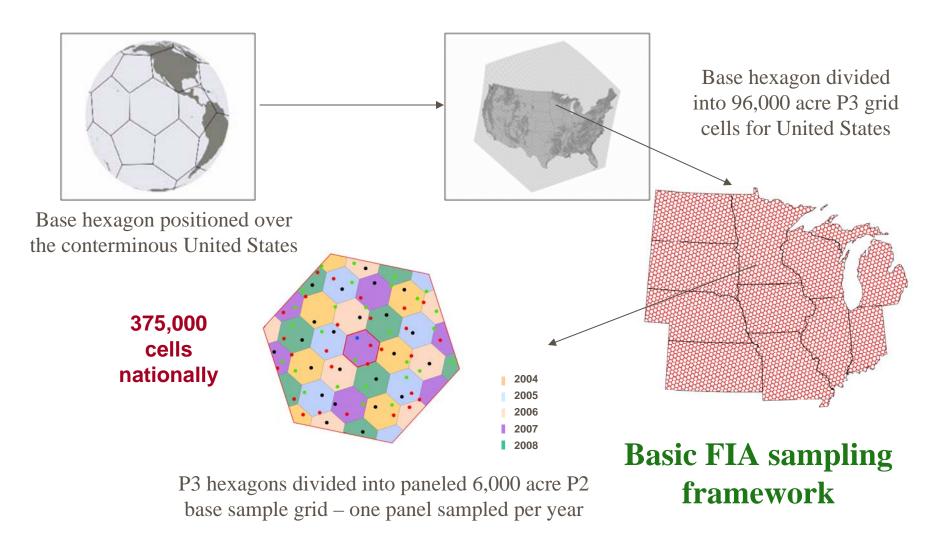
## A history of delivery since 1928

- **260+** STATE INVENTORIES
  - 9 NATIONAL ASSESSMENTS 1953, 1963, 1970, 1977, 1987, 1992, 1997, 2002, 2007
  - 3 NATIONAL OWNERSHIP STUDIES 1978, 1994, 2005
- 100's PRIMARY MILL CANVASS AND LOGGING UTILIZATION STUDIES
  - 3 SATELLITE FOREST COVER MAP 1993, 1997 [National Atlas], 2007



#### $\overline{\parallel}$

#### **Hexagon Grid and Plot System**



Assures uniform national coverage every year



## FIA Program Perspectives

- Only comprehensive forest inventory for each of the 50 States and 8 Caribbean and Pacific Island groups.
- Switched from periodic State by State cycle in 1999 to annualized system designed to operate in every State every year as directed by 1998 Farm Bill





# Key requirements of the 1998 Farm Bill which revised our legal 1928 mandate

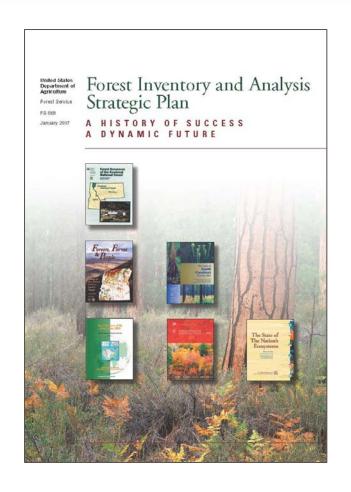
- Develop a Strategic Plan
- Operate collaboratively in every State every year
- Post all new core data annually
- Produce 5-year detailed reports for each State
- Seek opportunities for partners to enhance and leverage the program





New 2008-2012 Strategic Plan developed collaboratively with partners.

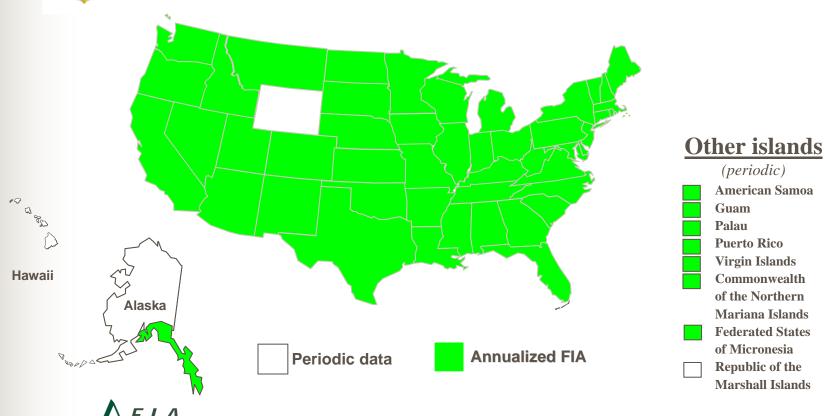
Defines core program and identifies new opportunities.

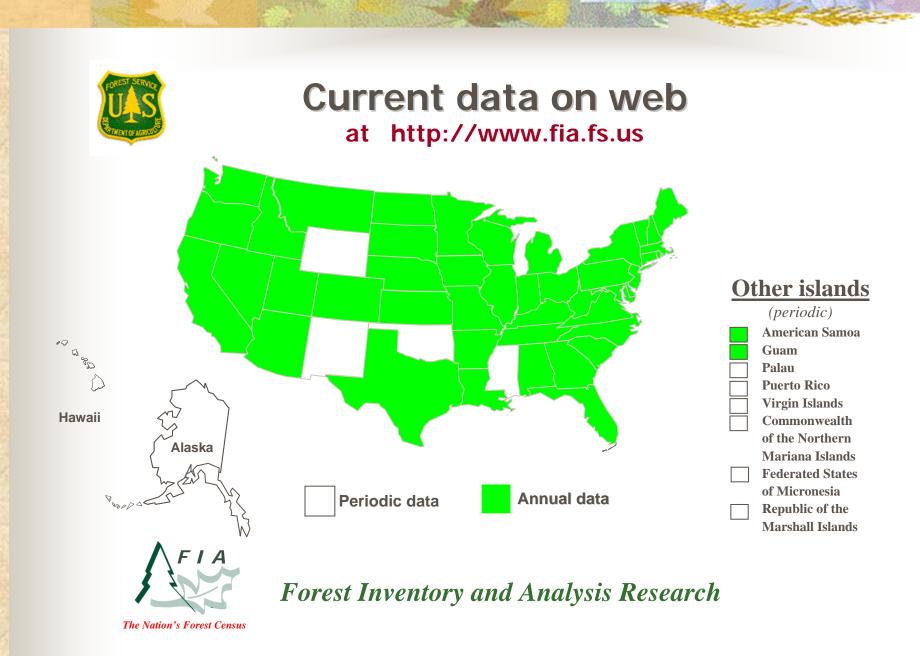






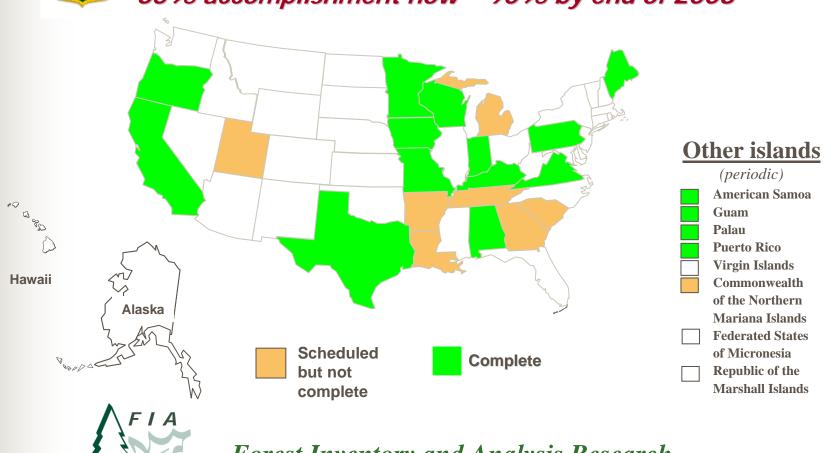
# Post 1999 implementation status





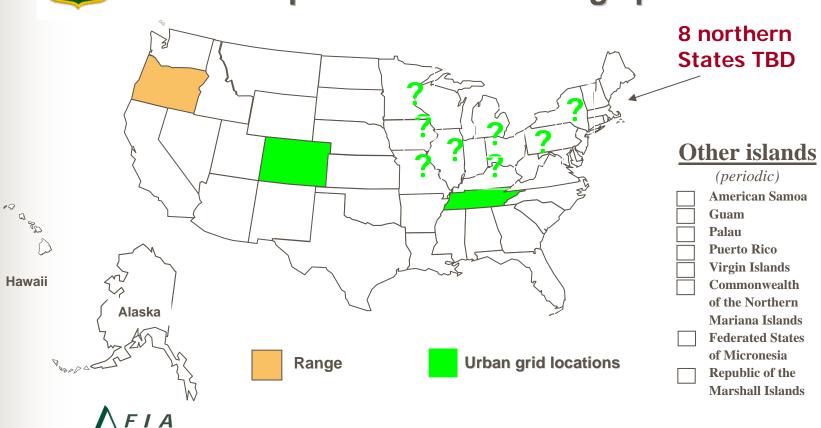


5-year reports
65% accomplishment now – 90% by end of 2008





# New opportunities 2008: Urban implementation & Range pilot



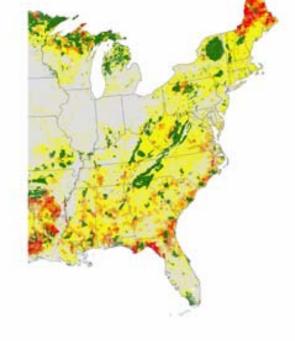


### **Data fusion: Forest Ownership**

- Public
- 0-20% corporate
- **20-60%** corporate
- **60-100%** corporate

# Forest ownership map produced using the following layers:

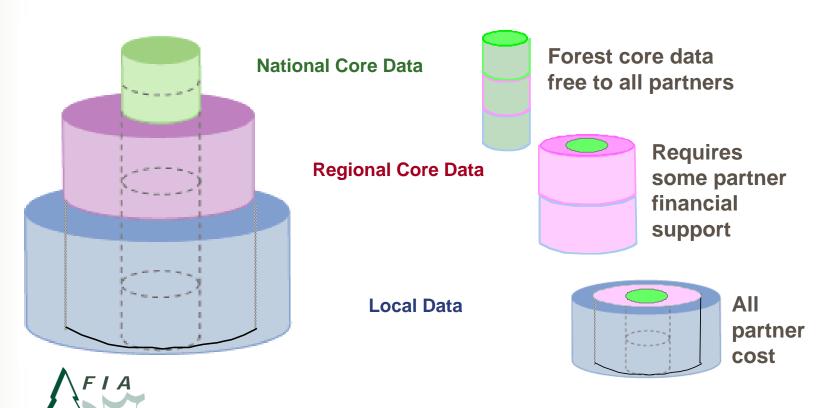
- ESRI data and maps
- FIA plot data
- Managed areas database
- 30m TM data







### Leveraging the grid – core layers





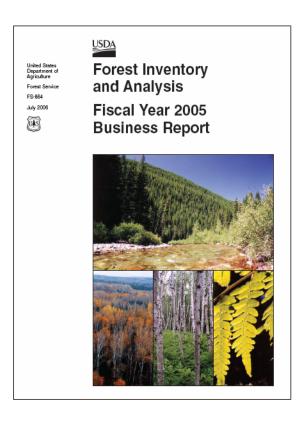
#### Other reporting demands

- RPA 5-year U.S. National Assessments
- Montreal Process 18 of 28 biological indicators
- UN/FAO 5-yr Global Forest Resource Assessments
- UN/IPCC report on forest area trends and baseline input for U.S. forest carbon estimation
- EPA report on status of nation's ecosystems
- Heinz Center report on nation's ecosystems





The Annual Business
Report continues to be
praised by Congress
and partners as a model
for demonstrating
program accountability.



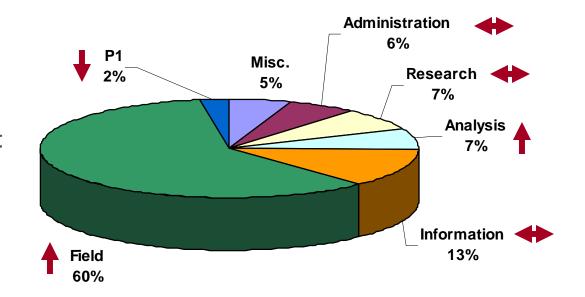




#### Where the operating dollars go

(8-year average, 1999-2006)

Annual program cost is 10 cents per acre of forest.

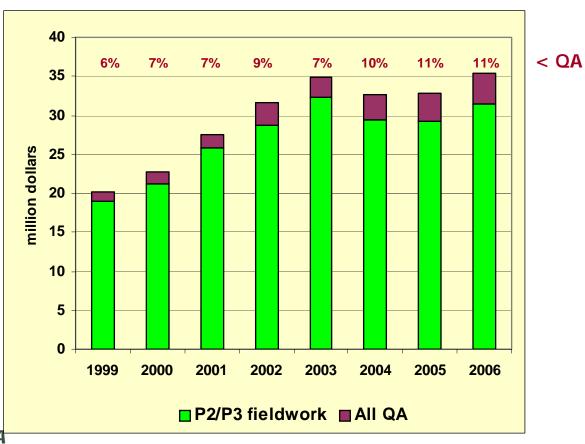








#### Historic field cost distribution



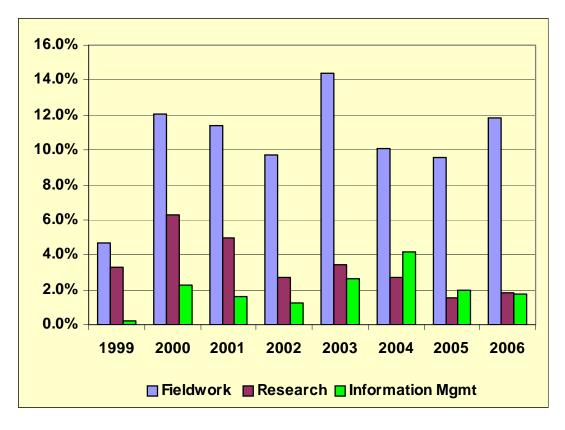




### Work accomplished by Grants

getting the most from our dollars

Since 2000, FIA grants have averaged \$9.5 million annuallymostly for fieldwork

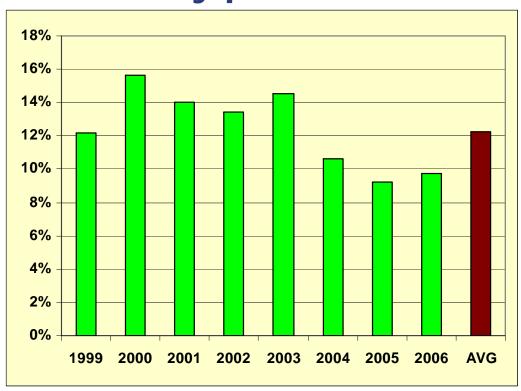






# Historic percent of total FIA program funded by partners

Since 2000, partner contributions have averaged \$7.9 million annually or 12% of all program funds



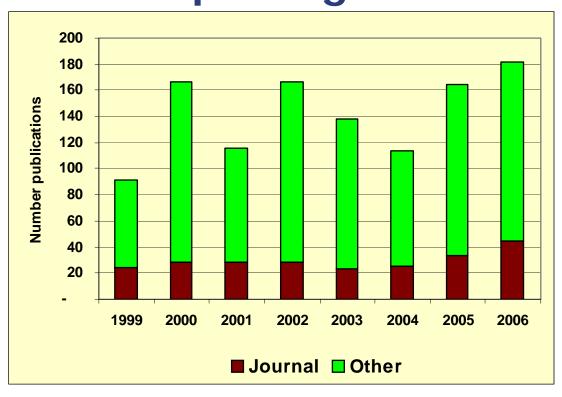




# Historic reporting of results

Easy data access is critical to all

After slowing during information system development, publications are on the rise



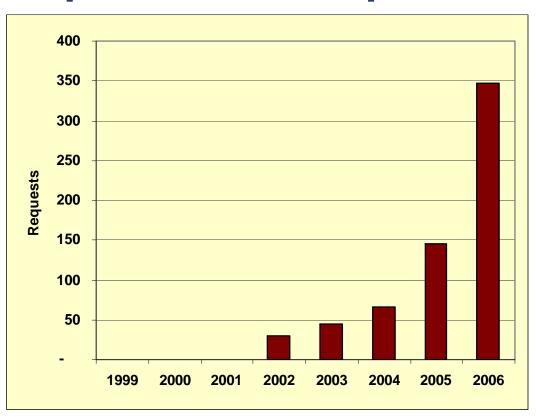




# **Spatial data requests**

Spatial data requests are expected to continue rising rapidly....

along with privacy issues







#### Other recent items of note:

- New U.S. Forest Type map (peer reviewed)
- *New* U.S. Forest Biomass map (peer reviewed)
- New Forest Inventory Data Online (FIDO) to replace MapMaker
- New 2007 National Assessment in final draft with map atlas
- Assisting Brazil and Russia with new national inventories



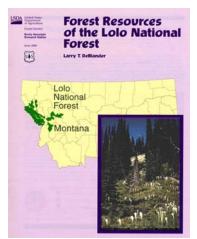


#### Forest Inventory and Analysis

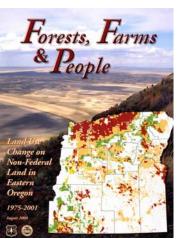
The Nation's Forest Census



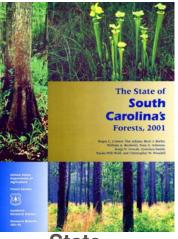
### Reporting on U.S. forests from local to global



Local



**Sub-State region** 



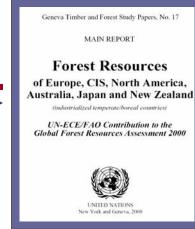
**State** 



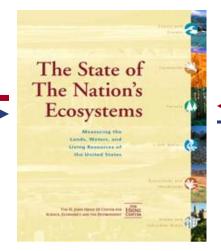
Regional/ National



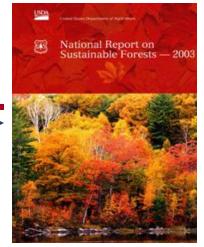
Global



International multi-process



**National multi-sector** 



**National sector C&I** 

### Partners are key to new strategies











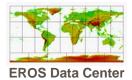






































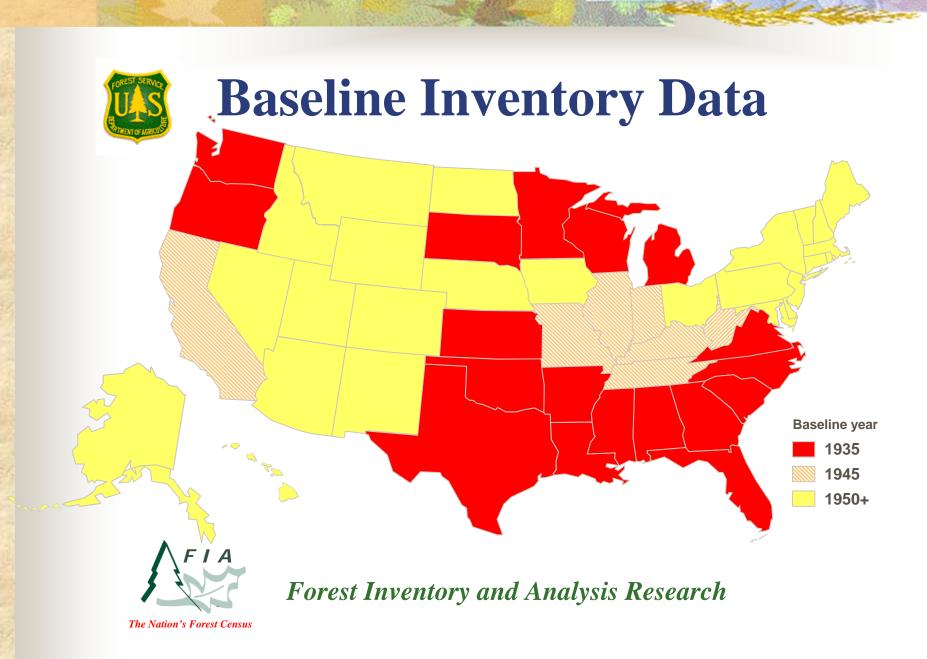




# Thank you









#### **PROGRESS**

- FIA is in the 10<sup>th</sup> year of annualized transition
- Steady funding progress- currently at 91%
- 48 States will be implemented by 2008
- Accountability has been institutionalized
- Information systems continue to improve
- Analysis and reporting is catching up with the data
- Congress and partners continue to be supportive





### **DATA FUSION**

providing the most significant added value

is the ability to integrate field data with remote sensing data to provide statistically reliable spatial products for user-defined analysis

If you remember only one thing...this is it

