

## Forest Biometrics Research Institute - Sponsor Benefits and Costs

**Table 1. Costs for FBRI Products and Services**

Item	Cost of item for:		Value of Item:
	Supporter	Non-Supporter	
Annual Assessment/Acre	\$0.02	\$0.00	\$0.00
FPS software (per copy)	\$0.00	\$750.00	\$750.00
FPS software updates	\$0.00	\$250.00	\$250.00
FPS certified library	\$0.00	(Not available)	\$250,000.00 (Full-Year Analysis)
FPS regional library updates	\$0.00	(Not available)	\$250,000.00 (Full-Year Analysis)
FPS library localization	\$0.00	\$48,000.00	\$48,000.00 (3-Month Analysis)
Inventory workshop (per person)	\$495.00	\$795.00	\$795.00
Calibration workshop (per person)	\$495.00	(Not available)	\$6,000.00
Handheld software (per copy)	\$0.00	\$150.00	\$450.00
FBRI Tech support/phone/webmtg	\$0.00	(Limited)	\$5,000.00
On site tech support	\$90/hr. + expenses	\$120/hr.+ expenses	\$4,800.00

- Full-Year Analyses are based on large permanent plot databases (species, sites, silviculture).
- 3-Month Analyses are based on local tree farm data available and provided only (FBRI databases are not used).

**Table 2. Example of periodic costs for two tree farms.**

Periodic Costs: Year	100,000 Acre Tree Farm		500,000 Acre Tree Farm	
	Supporter	Non-Supporter	Supporter	Non-Supporter
1	\$2,990	\$49,695	\$11,485	\$79,190
2	\$2,990	\$1,195	\$11,485	\$2,390
3	\$2,990	\$1,195	\$11,485	\$2,390
4	\$2,990	\$1,195	\$11,485	\$2,390
5	\$2,990	\$1,195	\$11,485	\$2,390
6	\$2,990	\$49,195	\$11,485	\$79,190
7	\$2,990	\$1,195	\$11,485	\$2,390
8	\$2,990	\$1,195	\$11,485	\$2,390
9	\$2,990	\$1,195	\$11,485	\$2,390
10	\$2,990	\$1,195	\$11,485	\$2,390
<b>10yr Total Assessments</b>	<b>\$29,900</b>	<b>\$108,450</b>	<b>\$114,850</b>	<b>\$177,500</b>
<b>15yr Total Assessments</b>	<b>\$44,850</b>	<b>\$162,675</b>	<b>\$172,275</b>	<b>\$266,250</b>
<b>Single Endowment (\$0.25/ac)</b>	<b>\$25,000</b>		<b>\$125,000</b>	

**Table 3. Assumptions used in calculating periodic costs**

Cost explanation	100,000 Acre Tree Farm		500,000 Acre Tree Farm	
	Supporter	Non-Supporter	Supporter	Non-Supporter
Annual assessments	\$2,000	\$0	\$10,000	\$0
FPS software purchases	N/A	1 copy	N/A	2 copies
FPS software and handheld updates	Unlimited	1/year	Unlimited	2 sets/year
Inventory workshops	1 person/yr	1 person/yr	2 persons/yr	2 persons/yr
Calibration workshops	1 person/2yrs	(Un-available)	1 person/yr	(Un-available)
FPS certified library updates	each 5 yrs	(Un-available)	each 5 yrs	(Un-available)
Cooperative localizations	each 5 yrs	(Un-available)	each 5 yrs	(Un-available)
Tree Farm localizations	as requested	1/five years	as requested	1/five years
Technical Support / Phone	Unlimited	1 hour/month	Unlimited	1 hour/month
Technical Support / Web Mtg	Unlimited	(Un-available)	Unlimited	(Un-available)
Technical Support on Site	Unlimited	3 days / year	Unlimited	3 days / year

**Table 4. Summary of Benefits**

Benefit Explanation	100,000 Acre Tree Farm		500,000 Acre Tree Farm	
	Supporter	Non-Supporter	Supporter	Non-Supporter
<b>Library Upgrade / 5yrs</b>				
Average Annual Benefit	\$57,230	\$10,830	\$64,460	\$17,820
Average Annual Cost	\$2,990	\$10,845	\$11,485	\$17,750
Size & Quality of Growth Plots	20,000 plots/30yrs	Limited?	20,000 plots/30yrs	Limited?
Size & Quality of Taper Data	10,000 trees/20 spp	None	10,000 trees/20 spp	None
<b>Net Benefit &amp; Confidence</b>	<b>19.1 to 1 (High)</b>	<b>1 to 1 (Low)</b>	<b>5.6 to 1 (High)</b>	<b>1 to 1 (Low)</b>
<b>Comparisons to:</b>				
FVS Localization & Support	FBRI Library	Third-party only	FBRI Library	Third-party only
Organon Localization & Support	FBRI Library	Growth model only	FBRI Library	Growth model only
Cactus / Cryptos Support	FBRI Library	Unknown	FBRI Library	Unknown
TASS Localization & Support	FBRI Library	None	FBRI Library	None
DFSIM Localization & Support	FBRI Library	None	FBRI Library	None

Non-Members may request local tree farm library calibrations periodically, but these are limited to data provided and time available.

**FBRI Sponsorship Benefits:**

- Full-time technical support by phone, Email & Web Conference - five days/week, 52 weeks/year - no charge.
  - Ongoing, permanent commitment to service of FBRI members as a priority.
  - Ongoing, annual refinement of all software components - inventory, growth, planning.
  - Regional Libraries updated at least each five-yr interval for volume, growth, silviculture. (Full-Year Analyses)
  - All sponsor's participation in other regional research cooperatives incorporated - no charge. (Cooperative Analyses)
  - FBRI Regional Libraries based on the largest research database available from any source.
  - FBRI software (FPS) is the only fully integrated and consistent forest management package available.
  - More forest management organizations rely on FBRI support compared to any other source.
  - FBRI maintains over 200 unique Region/Species-specific models west of the Rockies.
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- No similar combination of permanent technical support, software and workshops exists elsewhere.
  - FBRI was established in 2002 as a 501 c 3 non-profit research, development & service corporation.
  - FBRI strives to evolve to a fully-endowed corporation to reduce cost to members in future. (10-Year Plan)

**Read the 2002 National Research Council Report, “National Capacity in Forestry Research”, National Academy Press, 144 pages:**

- **USDA Experiment Stations have ceased to provide relevant biometrics tools.**
- **No independent professional organization is providing a reference point** for yield potentials, certification, appraisal or valuation.
- **No organization is providing new research** to meet the demands for biometrics tools and silvicultural regimes.
- **No organization provides service and software tools** to the forest industry for inventory, growth, silviculture and planning.
- **No structure exists in any Company, University or USDA Experiment Station** that is ready or planning to take on these needs.

**Forest Biometrics Research Institute - Is it relevant? Is it needed? Is the mission on target? Is it cost effective?**

**(Is there any question that FBRI is where you need to be?)**

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