

NEFF Regen and Mills Crop Trees

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REGENERATION STUDY - 2007 - 2009
 5 to 10 years post harvest
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All plots results - the graph of these results is on the next page.

453 plots - 99 with 0% removal, 101 with 5- 25% removal, 102, with 30 – 50 % removal, 85 with 55 – 75 % removal, 93 with 80 to 100% removal.

Plots are grouped by the commercial value and shade tolerance of the species of the regeneration.

SPECIES	bc	bb	ro	w p	yb	sm	wb	hi	wa	wo	as	be	bf	hm	rm	rs
VALUE	hi\$	hi\$	hi\$	hi\$	hi\$	hi\$	mid\$	mid\$	mid\$	mid\$	lo\$	lo\$	lo\$	lo\$	lo\$	lo\$
SHADE TOLERANCE	int	mid	mid	mid	mid	tol	int	mid	mid	mid	int	tol	tol	tol	tol	tol

Categorized by % stocking removed during harvest.

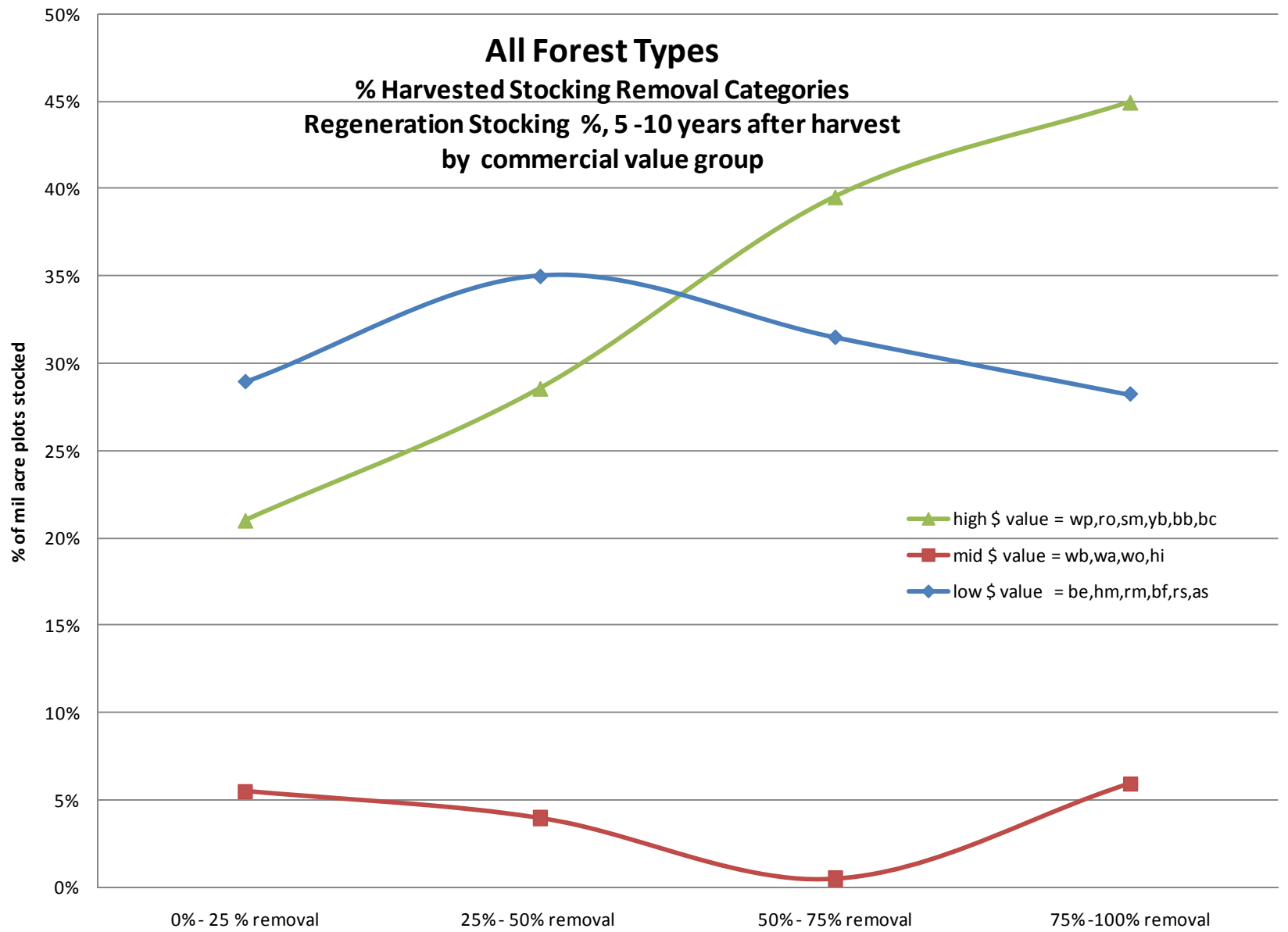
- The % of the plots successfully stocked with high commercial value species rose from 21% in stands with 0 – 25% removal to 45% in stands with 75 – 100 % removal.
- The % of plots with low commercial value species hovered around 30%. It rose slightly and then declined as more of the stand was removed and more light reached the forest floor.

There is a clear message here.

- The stocking % switch between low value and high value species is dramatic, as % removal increases and more light falls on the forest floor.

Without the higher light levels available in stands with over 50% harvest removal, the species that will dominate the future stands will be the lower commercial values ones (Beech, Red Maple, Hemlock, Balsam Fir, Red Spruce).

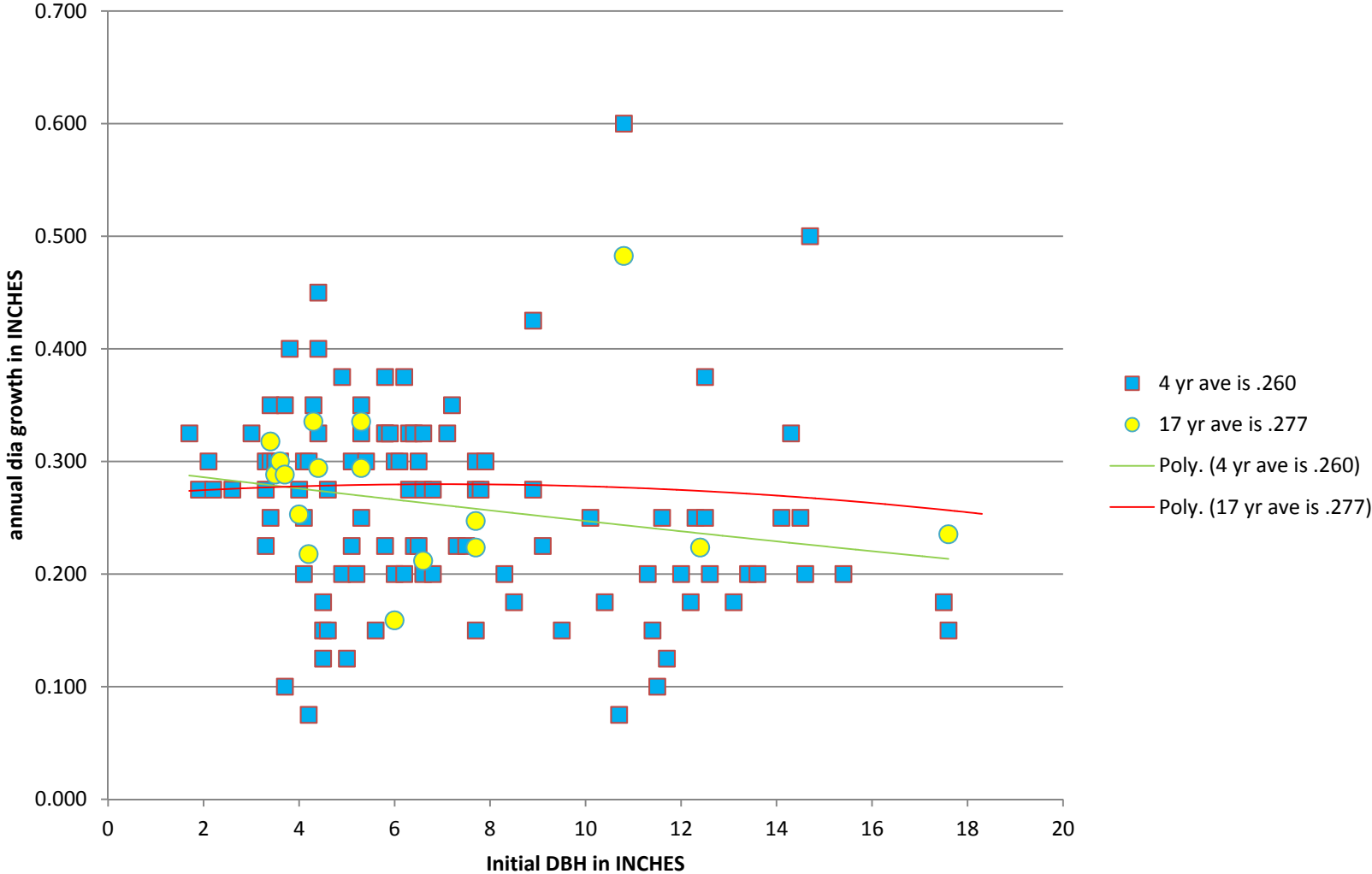
All Forest Types
% Harvested Stocking Removal Categories
Regeneration Stocking %, 5 -10 years after harvest
by commercial value group



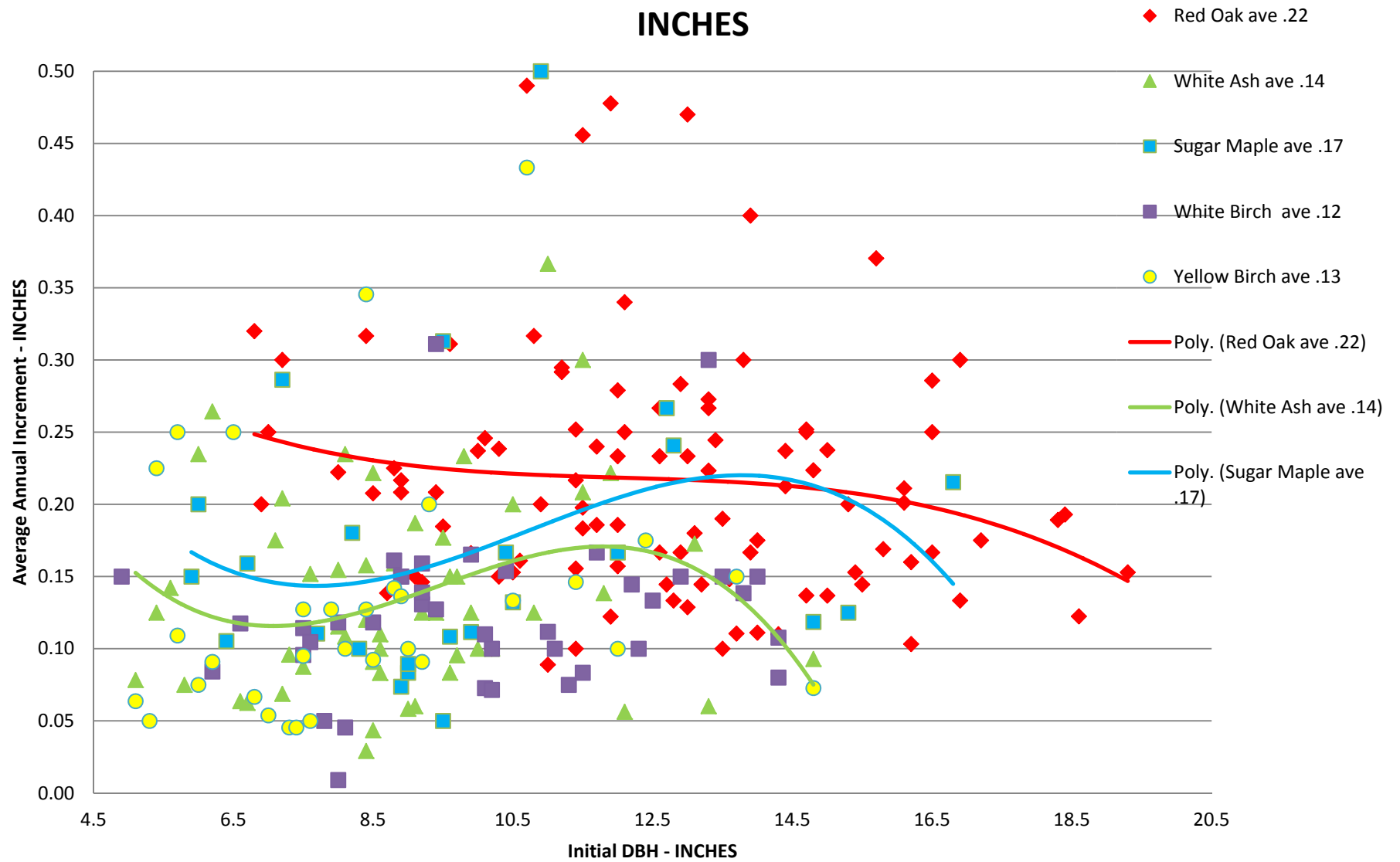
Data from Brooks Mills Land

- On three wood lots Brooks installed two CFI plot sets and designated over 1400 individual crop trees.
- He started recording DBH growth in the early 1980's and continued until 2007.
- Torturing both myself and the data has yielded a few observations

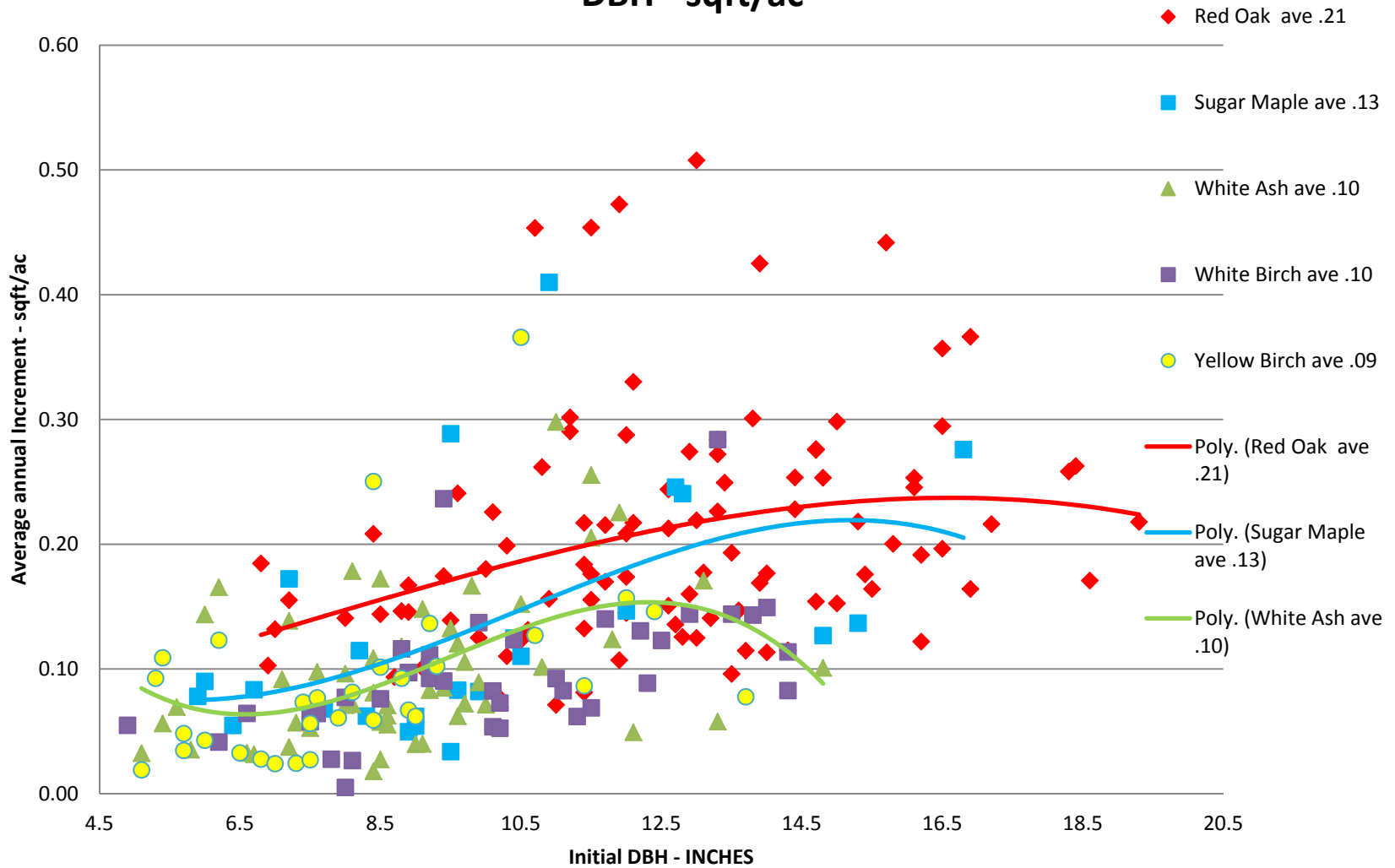
Home Place Red Oak Crop Trees - DBH average annual increase over different measurement periods by initial DBH in INCHES



Brooks Mills Sweet Lot - DBH ave annual increment by initial DBH - INCHES



Brooks Mills Sweet Lot Basal Area Ave Annual Increment by Initial DBH - sqft/ac



Brooks Mills Sweet Lot Basal Area Compound Interest of BA increase by Initial DBH - CM

