

Economic Analysis of HLB Foliar Strategy

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Table 1. HLB Foliar Nutrients

Material	Unit Cost	Rate	Cost/ac
14-8-7 (K-Phite @1 pt/gal)	\$8.00/gal	8 gal	\$64.00
3-18-20 (K-Phite @1 pt/gal)	\$8.00/gal	16 gal	\$128.00
K-Phite		12 qt	
13-0-44	\$.78/lb	17 lb	\$13.33
Magnesium SO ₄	\$.30/lb	25.5 lb	\$7.65
Manganese SO ₄	\$.79/lb	25.5lb	\$20.15
Sodium molybdate	\$1.31/oz	2.5 oz	\$3.34
Zinc SO ₄	\$.70/lb	5.6 lb	\$3.92
Total Costs (\$/ac-yr)			\$240

Table 2. HLB Foliar SAR

Material	Unit Cost	Rate	Cost/ac
SAver	\$4.80/qt	3 qt	\$14.70
Serenade	\$11.20/lb	6.75 lb	\$75.60
Total Costs (\$/ac-yr)			\$90

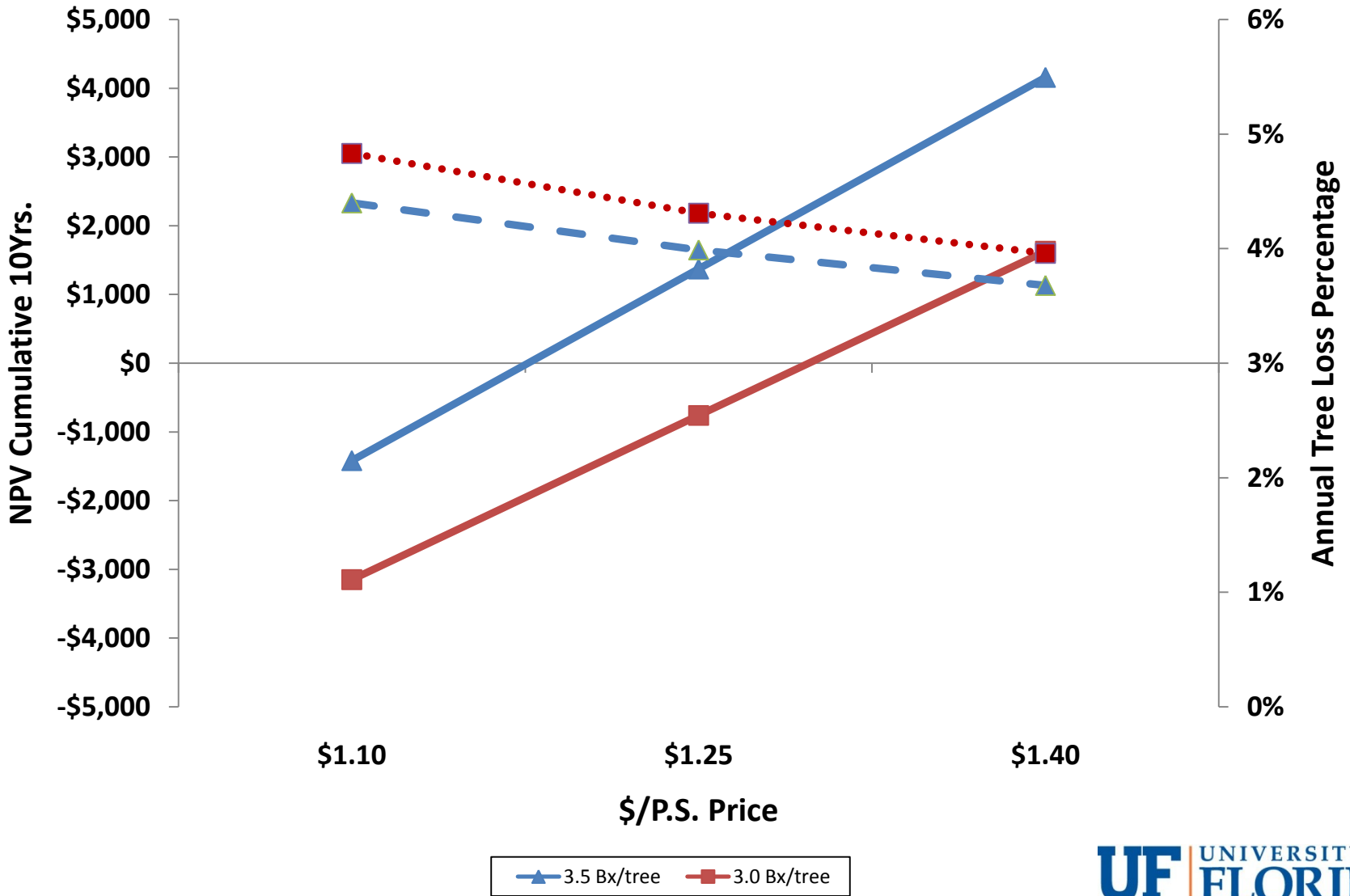
Table 3. HLB Foliar Other

Material	Unit Cost	Rate	Cost/ac
Hydrogen peroxide	\$8.00/qt	6.0 qt	\$48.00
435 oil	\$5.94/gal	15.0 gal	\$89.10
Total Costs (\$/ac-yr)			\$137

Table 4. Annual cost comparison b/w Standard and HLB Foliar programs

Activity (costs inc material & application)	Standard Program \$/ac	HLB Foliar Program \$/ac
Weed management	\$201	\$201
Spray/Pest management (w/ HLB)	\$423	\$423
Dolomite	\$15	\$15
Tree pruning/hedging	\$35	\$35
Irrigation	\$263	\$263
Canker decontamination	\$32	\$32
HLB Field Inspections	\$104	-
Dry Fertilizer	\$414 (220 #N)	\$344 (180 #N)
HLB Foliar Nutrient program (Table 1)	-	\$240
HLB SAR + peroxide (Tables 2 & 3)	-	\$138
Micro nutrient package	\$24	-
Total Production Costs (\$/ac-yr)	\$1,511	\$1,691
Added Costs		\$180

Cumulative NPV of the HLB Foliar Program and tree loss threshold of Standard Program by 3 prices and 2 yields



Concluding comments

- **Monitor to establish a correct starting point.**
- **HLB infection < threshold, remove trees.**
- **HLB infection > threshold, alternative strategy**
- **Questions for alternative HLB strategy** (i.e. keep infected trees):
 - What materials and what rates maintains production?
 - How long can an infected tree in the “program” produce viable yields?
 - Production/cost implications on future replanted blocks?
- **Higher prices a necessary condition for any strategy.**
- **Citrus growers do not have a viable option to citrus.**